



Job Order Contract Construction Task Catalog®

CSI Divisions 01-50 2026

County of Monterey Public Works

Roads and Bridges



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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **County of Monterey**, priced locally using current labor, material and equipment costs, and published in May 2026.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of Monterey**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

- ☑ The Tasks in this CTC are organized using CSI's *MasterFormat*.



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The Unit Prices Include:

LABOR COSTS:

- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security, Medicare taxes, worker's compensation, unemployment insurance, and employee benefits.
- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the Task; disposal of excess material; and time for lunch and breaks.

EQUIPMENT COSTS:

- ☑ Equipment costs include all equipment required to accomplish the Task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

MATERIAL COSTS:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Material costs for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.

The Adjustment Factors Include:

The Adjustment Factors include the following costs, unless specifically excluded by the terms of the Contract Documents:

BUSINESS COSTS:

- ☑ Office overhead, including, but not limited to, office space, office equipment, office and management personnel, office supplies, and employee transportation.
- ☑ Insurance and bonding.
- ☑ Profit.

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- ☑ Job Order development services, Owner meetings, and other administrative services required by the Contract Documents.
- ☑ Subcontractor's overhead and profit.
- ☑ Cost of financing the work.
- ☑ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

PROJECT RELATED COSTS:

- ☑ Project trailer, equipment and supplies, portable toilets, and hand wash stations for Contractor's use.
- ☑ Project management and project supervision.
- ☑ Services required to complete project filings and obtain permits.
- ☑ Preparation and modification of sketches, drawings, submittals, as-built drawings, project photographs and other project records.
- ☑ Incidental engineering and architectural services.
- ☑ Gang boxes and storage containers for Contractor's tools, equipment and materials.
- ☑ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☑ Meeting Owner's security requirements.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, furnishings fastened to the wall or floor, safes and other furniture requiring disassembly).
- ☑ Sealing windows, doors and other openings with plastic to contain construction dust and debris within the work area, or to protect existing surfaces.
- ☑ Working in extreme temperatures (below or above normal) or adverse conditions such as rain, wind, sleet or snow.

- ☑ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☑ Daily clean-up.
- ☑ Final professional clean-up.

PRICE VARIATIONS:

- ☑ Contractors may experience direct costs that are different than the unit prices set forth in the CTC. While diligent effort was made to provide accurate, unit prices, it is the Contractor's responsibility to review and analyze the unit prices, and to calculate, prior to bidding, the Adjustment Factors accordingly.
- ☑ Contractors may experience differences in decimal rounding on unit prices that may vary from unit prices set forth in the CTC.

SUMMARY:

- ☑ This list is not exhaustive and is intended to provide general examples of costs to be included in the Contractor's Adjustment Factors.
- ☑ The only compensation to be paid to the Contractor for Tasks will be:

Unit Price	X	Quantity	X	Adjustment Factor

- ☑ No additional payments of any kind whatsoever will be made.
- ☑ All costs in excess of the unit prices, must be included in the Adjustment Factors.

General Rules:

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the Task as described in the CTC.
- ☑ All labor, material, equipment, spare parts, and documents required by a Technical Specification

shall be considered included in the unit price, unless the Task description states otherwise.

- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 stories, the Contractor will be paid for such crane or lifting equipment as a separate Task.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or for relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the Task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, roof flashing, pitch pockets, skylights, roof curbs, exterior trim, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibrating, balancing, start-up services and the like required to ensure proper installation, construction and performance of the work (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing of water lines, etc.). Contractor may be paid for testing, calibrating, balancing, start-up services and the like for Owner supplied materials and equipment, or when working on or tying into existing materials and equipment.
- ☑ For the purpose of calculating the quantity of a Task, quantities are calculated on a per project basis. The quantity so determined shall be used for the Task and all appropriate modifiers, unless the Task states otherwise.
- ☑ Whenever there are alternative Tasks that may be selected to complete work, the Contractor shall select the most practical and economical Tasks available (e.g. rental of equipment by weeks or months rather than days, or painting by roller or spray rather than brush).

DEMOLITION:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an Owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a separate demolition Task, unless the component must be demolished separately to accomplish the work (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the work; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).
- ☑ The word "replace" includes removal of the existing item and installation of the new item.
- ☑ The words "remove and relocate" or "remove and reinstall" include removal, cleaning, and installation of the existing item in either the same location or another location.
- ☑ Salvageable materials are the property of the Owner and shall, if directed, be turned over to the Owner.

WORKING HEIGHT:

- ☑ Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- ☑ Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

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FIELD ENGINEERING:

- ☑ Surveying Tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical control points. If the Owner provides horizontal and vertical control points within or adjacent to the project site, all other surveying required to complete the work shall be considered construction staking or layout, and the cost thereof is included in the appropriate Tasks.

ASSEMBLIES:

- ☑ Assembly Tasks take precedence over individual component Tasks.

RESTRICTED AND CONFINED SPACES:

- ☑ Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories Tasks and for certain electrical conduit and conduit accessories Tasks. Only those Tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated Tasks. A Non-Prepriced Task will not be allowed because of Restricted Working Space for any Task.
- ☑ The Code of Federal Regulations (29 CFR part 1926, Subpart AA) define confined spaces and permit-required confined spaces for construction and set forth requirements, procedures and safety precautions for working in such spaces. If the Contractor must work in a confined space or a permit-required confined space and must provide ventilation equipment, air monitoring equipment and services, entry attendants, entry supervisors, site-specific training for workers, or other equipment and

services required by the regulations, then the Contractor shall be paid for such equipment, services and training. Those costs shall not be included in the Adjustment Factors.

Or Equals:

- ☑ Whenever material, products, or equipment is identified in the CTC, or in the Technical Specifications, by reference to a manufacturer's name, make or model number, the identification is intended to establish a standard. Any material, product, or equipment of another manufacturer may be considered an or-equal provided that, in the opinion of the Owner, the material, product, or equipment so proposed is of equal quality, substance and function to the named item. The Contractor shall not install any proposed material, product, or equipment without the prior written approval of the Owner. The burden of proof, and all costs related thereto, concerning whether the proposed material, product, or equipment is an or-equal, shall be borne by the Contractor.

Useful Information:

UNIT OF MEASURE DEFINITIONS:

ACR – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot or Gross Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HDAY** – Half Day, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** - Loose

(Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** - Liter, **LOT** - Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** - One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** - One Thousand Gallons, **MI** - Mile, **MLF** - One Thousand Linear Feet, **MO** - Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** - Metric Ton, **MTK** - Metric Ton Kilometer, **M2** - Square Meter, **M3K** - Cubic Meter Kilometer, **NTE** - Note, **OPN** - Opening, **OUT** - Outlet or Output (each), **OZ** - Ounce, **PKG** - Package, **PNT** - Point, **PR** - Pair, **QT** - Quart, **ROL** - Roll (each), **ROM** - Room, **ROW** - Row, **RSR** - Riser (Per Rise), **SEA** - Seat, **SET** - Set, **SF** - Square Foot, **SHT** - Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** - Inches per Square Yard, **TNM** - Tons per Mile, **TON** - Ton, **TRK** - Truck Load, **UI** - United Inch, **UNT** - Unit, **VLF** - Vertical Linear Foot, **WK** - Week, **YD** - Yard, **YR** - Year

MATERIAL WEIGHTS:

EARTHEN MATERIAL

- ☒ The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170

Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

BULK FACTORS FOR DEMOLITION:

- ☒ The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

CONVERSIONS:

1 Acre = 43,560 Square Feet = 4046.8 Square Meters

1 Board Foot = 12" x 12" x 1" = 144 Cubic Inches

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

1 Square Foot = 144 Square Inches = .0929 Square Meters

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

Using The Construction Task Catalog®

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

TRADEMARKS

- ☑ Job Order Contracting Advanced, Job Order Contracting Complete, Job Order Contracting Complete Management, PROGEN, eGordian, ezIQC, Construction Task Catalog, Catalog of Construction Tasks, and DMAP are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

Sheet Metal Thickness (inches)				
Gage No.	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

STANDARD GEOMETRY:

Circle

- Circumference = $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area = $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

Cylinder

- Volume = $(\pi \text{ radius}^2) \text{ height}$
- Surface Area = $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{ height}$

Sphere

- Volume = $(4 \pi \text{ radius}^3) / 3$
- Surface Area = $4 \pi \text{ radius}^2$

$\pi = 3.14159$

United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 General Requirements

01 10 Summary⁽⁰¹⁾

01 11 Summary Of Work^(01 10)

01 11 13 Work Covered by Contract Documents^(01 11)

Note: For specification publishing. Review specifications for requirements.

01 11 13 00-0001 NTE Work Covered by Contract Documents 0.00

Note: For specification publishing. Review specifications for requirements.

01 20 Price and Payment Procedures⁽⁰¹⁾

01 22 Unit Prices^(01 20)

01 22 16 Unit Price Payment^(01 22)

01 22 16 00-0001 Negotiated Travel Costs^(01 22 16)

Note: To be used only at the request of authorized personnel for non-commuting travel costs.

01 22 16 00-0002 EA Negotiated Travel Costs 1.00

Note: Supporting documentation must be included with each Work Order.

01 22 16 00-0003 Reimbursable Fees^(01 22 16)

Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc., which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0004 EA Reimbursable Fees 1.00

Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal.

01 22 20 Wage Rates^(01 22)

01 22 20 00-0001 Local Labor/Wage Rates^(01 22 20)

Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

01 22 20 00-0002 HR Asbestos Removal Worker 99.89

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreperson, Add 4.99

For Apprentice, Deduct -19.98

01 22 20 00-0003 HR Brick Layer 117.50

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreperson, Add 5.88

For Apprentice, Deduct -23.50

01 22 20 00-0004 HR Carpenter 141.57

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreperson, Add 7.08

For Apprentice, Deduct -28.31

01 22 20 00-0005 HR Carpenter, Bridge Builder 157.80

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreperson, Add 7.89

For Apprentice, Deduct -31.56

01 22 20 00-0006 HR Cement Mason 105.27

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreperson, Add 5.26

For Apprentice, Deduct -21.05

01 22 20 00-0007 HR Electrician, Inside Wireman 134.58

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreperson, Add 6.73

For Apprentice, Deduct -26.92

01 22 20 00-0008 HR Electrician, Cable Splicer 147.42

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreperson, Add 7.37

For Apprentice, Deduct -29.48

01 22 20 00-0009 HR Electrical Groundman 147.42

Note: For tasks not included in the Construction Task Catalog® and requested specifically by the owner for miscellaneous work not covered in the CTC.

For Foreperson, Add 7.37

For Apprentice, Deduct -29.48

01 22 20 00-0010 HR High Voltage Electrician, Utility Lineman 144.29

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreperson, Add 7.21

For Apprentice, Deduct -28.86

01 22 20 00-0011 HR Communication And System Technician 126.88

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

For Foreperson, Add -25.38

01 22 20 00-0012 HR Equipment Operator, Crane, Group 1-A 139.43

Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0013	HR	Equipment Operator, Crane, Group 2-A Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	136.97	
		<i>For Foreperson, Add</i>	6.85	
01 22 20 00-0014	HR	Equipment Operator, Crane, Group 3-A Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	134.58	
01 22 20 00-0015	HR	Equipment Operator, Medium, Group 3 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	134.04	
		<i>For Foreperson, Add</i>	6.70	
		<i>For Apprentice, Deduct</i>	-26.81	
01 22 20 00-0016	HR	Equipment Operator, Medium, Group 4 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	132.10	
01 22 20 00-0017	HR	Equipment Operator, Medium, Group 5 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	130.33	
01 22 20 00-0018	HR	Equipment Operator, Light, Group 6 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	128.48	
		<i>For Foreperson, Add</i>	6.42	
		<i>For Apprentice, Deduct</i>	-25.70	
01 22 20 00-0019	HR	Equipment Operator, Light, Group 7 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	126.89	
01 22 20 00-0020	HR	Equipment Operator, Light, Group 8 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	125.32	
01 22 20 00-0021	HR	Laborer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	95.29	
01 22 20 00-0022	HR	Landscape Maintenance Laborer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	95.29	
01 22 20 00-0023	HR	Millwright Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	137.51	
		<i>For Foreperson, Add</i>	6.88	
		<i>For Apprentice, Deduct</i>	-27.50	
01 22 20 00-0024	HR	Mold Removal Worker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	99.51	
		<i>For Foreperson, Add</i>	4.98	
		<i>For Apprentice, Deduct</i>	-19.90	
01 22 20 00-0025	HR	Painter, Ordinary Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	114.47	
		<i>For Foreperson, Add</i>	5.72	
		<i>For Apprentice, Deduct</i>	-22.89	
01 22 20 00-0026	HR	Painter, Structural Steel Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	119.18	
		<i>For Foreperson, Add</i>	5.96	
		<i>For Apprentice, Deduct</i>	-23.84	
01 22 20 00-0027	HR	Pile Drivers Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	151.42	
		<i>For Foreperson, Add</i>	7.57	
		<i>For Apprentice, Deduct</i>	-30.28	
01 22 20 00-0028	HR	Plasterer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	126.75	
		<i>For Foreperson, Add</i>	6.34	
		<i>For Apprentice, Deduct</i>	-25.35	
01 22 20 00-0029	HR	Plumber Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	133.62	
		<i>For Foreperson, Add</i>	6.68	
		<i>For Apprentice, Deduct</i>	-26.72	
01 22 20 00-0030	HR	Powderman Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	99.89	
		<i>For Foreperson, Add</i>	4.99	
		<i>For Apprentice, Deduct</i>	-19.98	
01 22 20 00-0031	HR	Rodman (Reinforcing)/Ornamental Steel Worker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	115.12	
		<i>For Foreperson, Add</i>	5.76	
		<i>For Apprentice, Deduct</i>	-23.02	
01 22 20 00-0032	HR	Sheet Metal Worker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	146.79	
		<i>For Foreperson, Add</i>	7.34	
		<i>For Apprentice, Deduct</i>	-29.36	
01 22 20 00-0033	HR	Stone Mason Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	117.50	
		<i>For Foreperson, Add</i>	5.88	
		<i>For Apprentice, Deduct</i>	-23.50	
01 22 20 00-0034	HR	Iron Worker, Structural Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	118.56	
		<i>For Foreperson, Add</i>	5.93	
		<i>For Apprentice, Deduct</i>	-23.71	
01 22 20 00-0035	HR	Tile Layer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	115.11	
		<i>For Foreperson, Add</i>	5.76	
		<i>For Apprentice, Deduct</i>	-23.02	
01 22 20 00-0036	HR	Terrazzo Worker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	123.99	
		<i>For Foreperson, Add</i>	6.20	
		<i>For Apprentice, Deduct</i>	-24.80	
01 22 20 00-0037	HR	Truck Driver, Light, Group 1 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	99.89	
		<i>For Foreperson, Add</i>	4.99	
		<i>For Apprentice, Deduct</i>	-19.98	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0038 HR Truck Driver, Medium, Group 2.....	100.34	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0039 HR Truck Driver, Heavy, Group 3.....	100.79	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.04	
For Apprentice, Deduct	-20.16	
01 22 20 00-0040 HR Truck Driver, Heavy, Group 4.....	101.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0041 HR Welder.....	118.56	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.93	
For Apprentice, Deduct	-23.71	
01 22 20 00-0042 HR D1 Certified Welder.....	138.11	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0043 Rates For Services (01 22 20)		
01 22 20 00-0044 HR Watch/Guard Person, Unarmed.....	36.07	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0045 HR Watch/Guard Person, Armed.....	44.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0046 HR Senior Surveyor, Party Chief.....	140.87	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0047 HR Surveyor, Instrument Person.....	126.02	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0048 HR Surveyor, Rod Person.....	123.88	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0049 HR On-Site Certified Materials Testing Technician.....	92.42	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0050 HR Certified Industrial Hygienist.....	126.40	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0051 MI Mileage For Professional Services (Engineering, Surveying, etc.).....	0.72	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0052 EA Security Badge, Processing Fee.....	95.36	
01 22 20 00-0053 HR Biologist.....	123.30	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0054 HR Ecologist.....	143.85	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0055 HR Fire Watch Laborer.....	95.29	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0056 Rates For Project Management Services (01 22 20)		
Note: Includes subcontracted rates with burden and mark-up		
01 22 20 00-0057 HR Project Manager.....	160.00	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0058 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services. Includes subcontracted rates with burden and mark-up		
01 22 20 00-0059 HR Principal Architect.....	243.12	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0060 HR Senior Architect.....	179.38	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0061 HR Architect.....	140.62	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0062 HR Principal Engineer.....	210.00	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0063 HR Senior Engineer.....	174.12	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0064 HR Engineer.....	137.00	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0065 HR Draft Person.....	71.88	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0066 Rates For Traffic Control (01 22 20)		
01 22 20 00-0067 HR Flagperson For Traffic Control.....	95.29	
01 22 20 00-0068 DAY Pilot Vehicle With Driver.....	1,172.63	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0069 HR Highway Patrol Officer With Car.....	49.31	
For Each Mile, Add	0.72	
01 22 20 00-0070 HR Highway Patrol Officer With Motorcycle.....	46.81	
For Each Mile, Add	0.72	

01	General Requirements
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0071	HR	Highway Patrol Sergeant Officer With Car.....	58.17	
		<i>For Each Mile, Add</i>	0.72	
01 22 20 00-0072	HR	Highway Patrol Sergeant Officer With Motorcycle.....	55.67	
		<i>For Each Mile, Add</i>	0.72	
01 22 20 00-0073		Transport And Escort Vehicles (01 22 20)		
01 22 20 00-0074	HR	Escort Vehicle With Driver.....	108.46	
01 22 20 00-0075	HR	Transport Vehicle With Driver.....	154.58	
01 22 23		Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. Excludes mobilization unless otherwise stated. See CSI section 01 22 20 00-0066 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.				
01 22 23 00-0001		Aerial Equipment (01 22 23)		
01 22 23 00-0002		Man Lifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.				
01 22 23 00-0003		Telescoping Boom Man Lifts With Platform (01 22 23 00-0002)		
01 22 23 00-0004		Engine Powered, Telescoping Boom Man Lifts With Platform (01 22 23 00-0003)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.				
01 22 23 00-0005	DAY	40' Engine Powered, Telescoping Boom Man Lift With Platform.....	454.00	
		<i>For Four-Wheel Drive, Add</i>	102.15	
		<i>For Half Day Usage, Deduct</i>	-141.88	
01 22 23 00-0006	WK	40' Engine Powered, Telescoping Boom Man Lift With Platform.....	1,142.31	
		<i>For Four-Wheel Drive, Add</i>	257.02	
01 22 23 00-0007	MO	40' Engine Powered, Telescoping Boom Man Lift With Platform.....	2,562.88	
		<i>For Four-Wheel Drive, Add</i>	576.65	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-102.52	
01 22 23 00-0008	DAY	60' Engine Powered, Telescoping Boom Man Lift With Platform.....	666.35	
		<i>For Four-Wheel Drive, Add</i>	149.93	
		<i>For Half Day Usage, Deduct</i>	-208.23	
01 22 23 00-0009	WK	60' Engine Powered, Telescoping Boom Man Lift With Platform.....	1,588.98	
		<i>For Four-Wheel Drive, Add</i>	357.52	
01 22 23 00-0010	MO	60' Engine Powered, Telescoping Boom Man Lift With Platform.....	3,478.19	
		<i>For Four-Wheel Drive, Add</i>	782.59	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-139.13	
01 22 23 00-0011	DAY	80' Engine Powered, Telescoping Boom Man Lift With Platform.....	1,296.08	
		<i>For Four-Wheel Drive, Add</i>	291.62	
		<i>For Half Day Usage, Deduct</i>	-405.03	
01 22 23 00-0012	WK	80' Engine Powered, Telescoping Boom Man Lift With Platform.....	3,141.35	
		<i>For Four-Wheel Drive, Add</i>	706.80	
01 22 23 00-0013	MO	80' Engine Powered, Telescoping Boom Man Lift With Platform.....	6,590.25	
		<i>For Four-Wheel Drive, Add</i>	1,482.81	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-263.61	
01 22 23 00-0014	DAY	110' Engine Powered, Telescoping Boom Man Lift With Platform.....	1,845.27	
		<i>For Four-Wheel Drive, Add</i>	415.19	
		<i>For Half Day Usage, Deduct</i>	-576.65	
01 22 23 00-0015	WK	110' Engine Powered, Telescoping Boom Man Lift With Platform.....	4,443.29	
		<i>For Four-Wheel Drive, Add</i>	999.74	
01 22 23 00-0016	MO	110' Engine Powered, Telescoping Boom Man Lift With Platform.....	11,071.62	
		<i>For Four-Wheel Drive, Add</i>	2,491.11	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-442.86	
01 22 23 00-0017	DAY	120' Engine Powered, Telescoping Boom Man Lift With Platform.....	2,248.01	
		<i>For Four-Wheel Drive, Add</i>	505.80	
		<i>For Half Day Usage, Deduct</i>	-702.50	
01 22 23 00-0018	WK	120' Engine Powered, Telescoping Boom Man Lift With Platform.....	5,733.52	
		<i>For Four-Wheel Drive, Add</i>	1,290.04	
01 22 23 00-0019	MO	120' Engine Powered, Telescoping Boom Man Lift With Platform.....	13,034.05	
		<i>For Four-Wheel Drive, Add</i>	2,932.66	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-521.36	
01 22 23 00-0020		Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0002)		
01 22 23 00-0021		Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.				
01 22 23 00-0022	DAY	34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	404.80	
		<i>For Half Day Usage, Deduct</i>	-126.50	
01 22 23 00-0023	WK	34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	1,015.68	
01 22 23 00-0024	MO	34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	2,443.52	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-97.74	
01 22 23 00-0025	DAY	45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	515.20	
		<i>For Half Day Usage, Deduct</i>	-161.00	
01 22 23 00-0026	WK	45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	1,126.08	
01 22 23 00-0027	MO	45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	2,795.33	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-111.81	
01 22 23 00-0028	DAY	60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	662.40	
		<i>For Half Day Usage, Deduct</i>	-207.00	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0029 WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	1,530.88	
01 22 23 00-0030 MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	3,422.40	
For >6 Months (>26 Weeks), Deduct	-136.90	
01 22 23 00-0031 DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	1,155.52	
For Half Day Usage, Deduct	-361.10	
01 22 23 00-0032 WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	2,723.20	
01 22 23 00-0033 MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	6,622.53	
For >6 Months (>26 Weeks), Deduct	-264.90	
01 22 23 00-0034 DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	2,244.80	
For Half Day Usage, Deduct	-701.50	
01 22 23 00-0035 WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	5,299.20	
01 22 23 00-0036 MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform.....	12,953.60	
For >6 Months (>26 Weeks), Deduct	-518.14	
01 22 23 00-0037 Electric, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020)		
Note: For use on paved surfaces.		
01 22 23 00-0038 DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	404.80	
For Half Day Usage, Deduct	-126.50	
01 22 23 00-0039 WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	1,015.68	
01 22 23 00-0040 MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	2,443.52	
For >6 Months (>26 Weeks), Deduct	-97.74	
01 22 23 00-0041 DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	404.80	
For Half Day Usage, Deduct	-126.50	
01 22 23 00-0042 WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	1,015.68	
01 22 23 00-0043 MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	2,443.52	
For >6 Months (>26 Weeks), Deduct	-97.74	
01 22 23 00-0044 DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	500.48	
For Half Day Usage, Deduct	-156.40	
01 22 23 00-0045 WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	1,081.92	
01 22 23 00-0046 MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	2,686.40	
For >6 Months (>26 Weeks), Deduct	-107.46	
01 22 23 00-0047 DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	500.48	
For Half Day Usage, Deduct	-156.40	
01 22 23 00-0048 WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	1,081.92	
01 22 23 00-0049 MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	2,686.40	
For >6 Months (>26 Weeks), Deduct	-107.46	
01 22 23 00-0050 Platform Lifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0051 Electric, Scissor Platform Lifts (01 22 23 00-0050)		
Note: For use on paved surfaces.		
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift.....	186.31	
For Half Day Usage, Deduct	-58.22	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift.....	372.61	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift.....	762.16	
For >6 Months (>26 Weeks), Deduct	-30.49	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift.....	203.24	
For Half Day Usage, Deduct	-63.51	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift.....	406.49	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift.....	812.98	
For >6 Months (>26 Weeks), Deduct	-32.52	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift.....	262.52	
For Half Day Usage, Deduct	-82.04	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift.....	525.05	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift.....	1,126.31	
For >6 Months (>26 Weeks), Deduct	-45.05	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift.....	338.74	
For Half Day Usage, Deduct	-105.86	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift.....	669.01	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift.....	1,481.99	
For >6 Months (>26 Weeks), Deduct	-59.28	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift.....	364.15	
For Half Day Usage, Deduct	-113.80	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift.....	711.35	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift.....	1,609.02	
For >6 Months (>26 Weeks), Deduct	-64.36	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift.....	474.24	
For Half Day Usage, Deduct	-148.20	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift.....	1,177.12	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift.....	3,277.31	
For >6 Months (>26 Weeks), Deduct	-131.09	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift.....	413.42	
For Four-Wheel Drive, Add	82.68	
For Half Day Usage, Deduct	-129.19	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift.....	808.46	
For Four-Wheel Drive, Add	161.69	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	1,975.20 395.04 -79.01	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For Half Day Usage, Deduct	422.60 84.52 -132.06	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add	964.64 192.93	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	2,113.01 422.60 -84.52	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For Half Day Usage, Deduct	468.54 93.71 -146.42	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add	1,074.88 214.98	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	2,388.62 477.72 -95.54	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For Half Day Usage, Deduct	496.10 99.22 -155.03	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add	1,157.56 231.51	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	2,847.97 569.59 -113.92	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For Half Day Usage, Deduct	927.89 185.58 -289.97	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add	2,039.51 407.90	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	5,016.10 1,003.22 -200.64	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001) Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift For Half Day Usage, Deduct	151.93 -47.48	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift	430.47	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	869.37 -34.77	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift For Half Day Usage, Deduct	211.01 -65.94	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift	447.35	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	1,519.29 -60.77	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift For Half Day Usage, Deduct	354.50 -110.78	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift	860.93	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	2,515.27 -100.61	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift For Half Day Usage, Deduct	379.82 -118.69	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift	945.34	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	2,844.45 -113.78	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift For Half Day Usage, Deduct	202.57 -63.30	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift	405.14	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	810.29 -32.41	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift For Half Day Usage, Deduct	202.57 -63.30	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift	405.14	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	842.36 -33.69	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001) Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' To 33' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,412.26 -806.32 -592.52	
01 22 23 00-0107 WK 29' To 33' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct	5,849.42 -4,031.62	
01 22 23 00-0108 MO 29' To 33' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	22,097.50 -17,470.36 -185.09	
01 22 23 00-0109 DAY 38' To 41' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,489.37 -806.32 -616.61	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0110 WK 38' To 41' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct	6,097.31 -4,031.62	
01 22 23 00-0111 MO 38' To 41' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	22,758.52 -17,470.36 -211.53	
01 22 23 00-0112 DAY 45' To 48' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,687.68 -806.32 -678.59	
01 22 23 00-0113 WK 45' To 48' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct	6,455.36 -4,031.62	
01 22 23 00-0114 MO 45' To 48' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	23,529.71 -17,470.36 -242.37	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,128.36 -806.32 -816.30	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct	7,887.57 -4,031.62	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	27,385.66 -17,470.36 -396.61	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,348.70 -806.32 -885.15	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct	8,658.76 -4,031.62	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	30,139.91 -17,470.36 -506.78	
01 22 23 00-0121 Day 105' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,458.87 -806.32 -919.58	
01 22 23 00-0122 WK 105' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct	8,989.27 -4,031.62	
01 22 23 00-0123 MO 105' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	30,404.32 -17,470.36 -517.36	
01 22 23 00-0124 Air Equipment (01 22 23)		
01 22 23 00-0125 Air Compressors (01 22 23 00-0124) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0126 DAY 100 CFM Diesel Powered Portable Air Compressor For Half Day Usage, Deduct	189.79 -59.31	
01 22 23 00-0127 WK 100 CFM Diesel Powered Portable Air Compressor	569.36	
01 22 23 00-0128 MO 100 CFM Diesel Powered Portable Air Compressor For >6 Months (>26 Weeks), Deduct	1,581.56 -63.26	
01 22 23 00-0129 DAY 130 CFM Diesel Powered Portable Air Compressor For Half Day Usage, Deduct	227.74 -71.17	
01 22 23 00-0130 WK 130 CFM Diesel Powered Portable Air Compressor	670.58	
01 22 23 00-0131 MO 130 CFM Diesel Powered Portable Air Compressor For >6 Months (>26 Weeks), Deduct	1,897.88 -75.92	
01 22 23 00-0132 DAY 185 CFM Diesel Powered Portable Air Compressor For Half Day Usage, Deduct	303.66 -94.89	
01 22 23 00-0133 WK 185 CFM Diesel Powered Portable Air Compressor	683.24	
01 22 23 00-0134 MO 185 CFM Diesel Powered Portable Air Compressor For >6 Months (>26 Weeks), Deduct	1,505.65 -60.23	
01 22 23 00-0135 DAY 375 CFM Diesel Powered Portable Air Compressor For Half Day Usage, Deduct	430.18 -134.43	
01 22 23 00-0136 WK 375 CFM Diesel Powered Portable Air Compressor	1,088.12	
01 22 23 00-0137 MO 375 CFM Diesel Powered Portable Air Compressor For >6 Months (>26 Weeks), Deduct	2,593.76 -103.75	
01 22 23 00-0138 DAY 600 CFM Diesel Powered Portable Air Compressor For Half Day Usage, Deduct	956.53 -298.92	
01 22 23 00-0139 WK 600 CFM Diesel Powered Portable Air Compressor	2,302.76	
01 22 23 00-0140 MO 600 CFM Diesel Powered Portable Air Compressor For >6 Months (>26 Weeks), Deduct	5,739.17 -229.57	
01 22 23 00-0141 DAY 750 CFM Diesel Powered Portable Air Compressor For Half Day Usage, Deduct	1,151.38 -359.81	
01 22 23 00-0142 WK 750 CFM Diesel Powered Portable Air Compressor	2,834.16	
01 22 23 00-0143 MO 750 CFM Diesel Powered Portable Air Compressor For >6 Months (>26 Weeks), Deduct	6,958.88 -278.36	
01 22 23 00-0144 DAY 825 CFM Diesel Powered Portable Air Compressor For Half Day Usage, Deduct	1,151.38 -359.81	
01 22 23 00-0145 WK 825 CFM Diesel Powered Portable Air Compressor	2,834.16	
01 22 23 00-0146 MO 825 CFM Diesel Powered Portable Air Compressor For >6 Months (>26 Weeks), Deduct	6,958.88 -278.36	
01 22 23 00-0147 DAY 1,300 CFM Diesel Powered Portable Air Compressor For Half Day Usage, Deduct	1,341.16 -419.11	
01 22 23 00-0148 WK 1,300 CFM Diesel Powered Portable Air Compressor	3,006.23	
01 22 23 00-0149 MO 1,300 CFM Diesel Powered Portable Air Compressor For >6 Months (>26 Weeks), Deduct	8,016.62 -320.66	
01 22 23 00-0150 DAY 1,600 CFM Diesel Powered Portable Air Compressor For Half Day Usage, Deduct	1,670.13 -521.92	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0151 WK 1,600 CFM Diesel Powered Portable Air Compressor	3,757.79	
01 22 23 00-0152 MO 1,600 CFM Diesel Powered Portable Air Compressor	10,020.78	
For >6 Months (>26 Weeks), Deduct	-400.83	
01 22 23 00-0153 Portable Negative Air Machines (01 22 23 00-0124)		
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.		
01 22 23 00-0154 DAY Up To 2,000 CFM, Portable Negative Air Machine	114.41	
For Half Day Usage, Deduct	-35.75	
01 22 23 00-0155 WK Up To 2,000 CFM, Portable Negative Air Machine	469.91	
01 22 23 00-0156 MO Up To 2,000 CFM, Portable Negative Air Machine	1,419.95	
For >6 Months (>26 Weeks), Deduct	-56.80	
01 22 23 00-0157 EA First Stage Pre-Filter For Portable Negative Air Machines	14.19	
01 22 23 00-0158 EA Second Stage Pre-Filter For Portable Negative Air Machines	28.69	
01 22 23 00-0159 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	135.55	
01 22 23 00-0160 LF Flexible Exhaust Duct For Portable Negative Air Machines	2.40	
01 22 23 00-0161 Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0162 Pavers And Rollers (01 22 23 00-0161)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0163 Pavers (01 22 23 00-0162)		
01 22 23 00-0164 DAY 10' Wide Paving Machine With Full-Time Operator	4,494.50	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-1,605.59	
01 22 23 00-0165 WK 10' Wide Paving Machine With Full-Time Operator	19,050.32	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0166 MO 10' Wide Paving Machine With Full-Time Operator	72,122.62	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-1,955.58	
01 22 23 00-0167 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0162)		
01 22 23 00-0168 DAY 10 To 12 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,419.83	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-644.75	
01 22 23 00-0169 WK 10 To 12 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,412.62	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0170 MO 10 To 12 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	26,086.55	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-114.14	
01 22 23 00-0171 DAY 15 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,553.96	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-686.67	
01 22 23 00-0172 WK 15 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	7,410.09	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0173 MO 15 Ton, Ride-On Self-Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	27,592.51	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-174.37	
01 22 23 00-0174 DAY 30 Ton, Ride-On Self-Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,560.06	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-688.58	
01 22 23 00-0175 WK 30 Ton, Ride-On Self-Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	7,013.79	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0176 MO 30 Ton, Ride-On Self-Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	27,885.16	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-186.08	
01 22 23 00-0177 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0162)		
01 22 23 00-0178 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,474.70	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-661.90	
01 22 23 00-0179 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,477.25	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0180 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,458.46	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-129.01	
01 22 23 00-0181 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,730.78	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-741.93	
01 22 23 00-0182 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,995.50	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0183 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	28,092.46	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-194.37	
01 22 23 00-0184 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,791.75	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-760.98	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
01 22 23 00-0185	WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	7,379.61		
	For Equipment Without Operator, Deduct	-5,361.50		
01 22 23 00-0186	MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	29,165.53		
	For Equipment Without Operator, Deduct	-23,233.15		
	For >6 Months (>26 Weeks), Deduct	-237.30		
01 22 23 00-0187	Towed, Padfoot Rollers (01 22 23 00-0162)			
01 22 23 00-0188	DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	115.84		
	For Half Day Usage, Deduct	-36.20		
01 22 23 00-0189	WK 48" Wide, 40" Diameter, Towed Padfoot Roller	335.34		
01 22 23 00-0190	MO 48" Wide, 40" Diameter, Towed Padfoot Roller	987.71		
	For >6 Months (>26 Weeks), Deduct	-39.51		
01 22 23 00-0191	DAY 60" Wide, 60" Diameter, Towed Padfoot Roller	146.33		
	For Half Day Usage, Deduct	-45.73		
01 22 23 00-0192	WK 60" Wide, 60" Diameter, Towed Padfoot Roller	408.50		
01 22 23 00-0193	MO 60" Wide, 60" Diameter, Towed Padfoot Roller	1,737.64		
	For >6 Months (>26 Weeks), Deduct	-69.51		
01 22 23 00-0194	Static Rollers (01 22 23 00-0162)			
01 22 23 00-0195	DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,505.19		
	For Equipment Without Operator, Deduct	-1,072.30		
	For Half Day Usage, Deduct	-671.43		
01 22 23 00-0196	WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	6,739.42		
	For Equipment Without Operator, Deduct	-5,361.50		
01 22 23 00-0197	MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	27,318.14		
	For Equipment Without Operator, Deduct	-23,233.15		
	For >6 Months (>26 Weeks), Deduct	-163.40		
01 22 23 00-0198	DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,639.32		
	For Equipment Without Operator, Deduct	-1,072.30		
	For Half Day Usage, Deduct	-713.34		
01 22 23 00-0199	WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	7,105.24		
	For Equipment Without Operator, Deduct	-5,361.50		
01 22 23 00-0200	MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	28,330.24		
	For Equipment Without Operator, Deduct	-23,233.15		
	For >6 Months (>26 Weeks), Deduct	-203.88		
01 22 23 00-0201	Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0162)			
01 22 23 00-0202	DAY 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,310.08		
	For Equipment Without Operator, Deduct	-1,072.30		
	For Half Day Usage, Deduct	-610.46		
01 22 23 00-0203	WK 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,056.56		
	For Equipment Without Operator, Deduct	-5,361.50		
01 22 23 00-0204	MO 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,062.25		
	For Equipment Without Operator, Deduct	-23,233.15		
	For >6 Months (>26 Weeks), Deduct	-73.16		
01 22 23 00-0205	DAY 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,401.54		
	For Equipment Without Operator, Deduct	-1,072.30		
	For Half Day Usage, Deduct	-639.04		
01 22 23 00-0206	WK 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,330.92		
	For Equipment Without Operator, Deduct	-5,361.50		
01 22 23 00-0207	MO 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,793.89		
	For Equipment Without Operator, Deduct	-23,233.15		
	For >6 Months (>26 Weeks), Deduct	-102.43		
01 22 23 00-0208	DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,462.51		
	For Equipment Without Operator, Deduct	-1,072.30		
	For Half Day Usage, Deduct	-658.09		
01 22 23 00-0209	WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,513.83		
	For Equipment Without Operator, Deduct	-5,361.50		
01 22 23 00-0210	MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,281.65		
	For Equipment Without Operator, Deduct	-23,233.15		
	For >6 Months (>26 Weeks), Deduct	-121.94		
01 22 23 00-0211	DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,541.77		
	For Equipment Without Operator, Deduct	-1,072.30		
	For Half Day Usage, Deduct	-682.86		
01 22 23 00-0212	WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,745.52		
	For Equipment Without Operator, Deduct	-5,361.50		
01 22 23 00-0213	MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,885.25		
	For Equipment Without Operator, Deduct	-23,233.15		
	For >6 Months (>26 Weeks), Deduct	-146.08		
01 22 23 00-0214	DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,700.29		
	For Equipment Without Operator, Deduct	-1,072.30		
	For Half Day Usage, Deduct	-732.40		
01 22 23 00-0215	WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	7,208.89		
	For Equipment Without Operator, Deduct	-5,361.50		
01 22 23 00-0216	MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	28,110.75		
	For Equipment Without Operator, Deduct	-23,233.15		
	For >6 Months (>26 Weeks), Deduct	-195.10		

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0217

Steel Roadway Plates (01 22 23 00-0161)

Note: 3 day minimum. Excludes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0218 for placement (set-up) from truck and removal from ground (load on truck), 01 71 13 00-0001 for material delivery on truck.

01 22 23 00-0218	EA	Placement And Removal Of Steel Roadway Plates.....	62.40	
01 22 23 00-0219	DAY	1" x 4' x 8' Steel Plate	46.44	
01 22 23 00-0220	WK	1" x 4' x 8' Steel Plate	109.66	
01 22 23 00-0221	MO	1" x 4' x 8' Steel Plate	144.31	
		For >6 Months (>26 Weeks), Deduct	-5.77	
01 22 23 00-0222	DAY	1" x 4' x 10' Steel Plate	61.92	
01 22 23 00-0223	WK	1" x 4' x 10' Steel Plate	139.33	
01 22 23 00-0224	MO	1" x 4' x 10' Steel Plate	170.29	
		For >6 Months (>26 Weeks), Deduct	-6.81	
01 22 23 00-0225	DAY	1" x 5' x 10' Steel Plate	64.50	
01 22 23 00-0226	WK	1" x 5' x 10' Steel Plate	145.78	
01 22 23 00-0227	MO	1" x 5' x 10' Steel Plate	387.03	
		For >6 Months (>26 Weeks), Deduct	-15.48	
01 22 23 00-0228	DAY	1" x 6' x 8' Steel Plate	41.28	
01 22 23 00-0229	WK	1" x 6' x 8' Steel Plate	92.89	
01 22 23 00-0230	MO	1" x 6' x 8' Steel Plate	247.70	
		For >6 Months (>26 Weeks), Deduct	-9.91	
01 22 23 00-0231	DAY	1" x 6' x 10' Steel Plate	77.41	
01 22 23 00-0232	WK	1" x 6' x 10' Steel Plate	101.92	
01 22 23 00-0233	MO	1" x 6' x 10' Steel Plate	272.21	
		For >6 Months (>26 Weeks), Deduct	-10.89	
01 22 23 00-0234	DAY	1" x 6' x 12' Steel Plate	108.37	
01 22 23 00-0235	WK	1" x 6' x 12' Steel Plate	138.69	
01 22 23 00-0236	MO	1" x 6' x 12' Steel Plate	375.42	
		For >6 Months (>26 Weeks), Deduct	-15.02	
01 22 23 00-0237	DAY	1" x 8' x 10' Steel Plate	68.38	
01 22 23 00-0238	WK	1" x 8' x 10' Steel Plate	153.52	
01 22 23 00-0239	MO	1" x 8' x 10' Steel Plate	408.96	
		For >6 Months (>26 Weeks), Deduct	-16.36	
01 22 23 00-0240	DAY	1" x 8' x 12' Steel Plate	123.85	
01 22 23 00-0241	WK	1" x 8' x 12' Steel Plate	153.52	
01 22 23 00-0242	MO	1" x 8' x 12' Steel Plate	743.10	
		For >6 Months (>26 Weeks), Deduct	-29.72	
01 22 23 00-0243	DAY	1" x 8' x 16' Steel Plate	165.13	
01 22 23 00-0244	WK	1" x 8' x 16' Steel Plate	371.55	
01 22 23 00-0245	MO	1" x 8' x 16' Steel Plate	990.80	
		For >6 Months (>26 Weeks), Deduct	-39.63	
01 22 23 00-0246	DAY	1-1/4" x 8' x 10' Steel Plate	82.05	
01 22 23 00-0247	WK	1-1/4" x 8' x 10' Steel Plate	184.23	
01 22 23 00-0248	MO	1-1/4" x 8' x 10' Steel Plate	490.75	
		For >6 Months (>26 Weeks), Deduct	-19.63	
01 22 23 00-0249	DAY	1-1/2" x 8' x 15' Steel Plate	189.90	
01 22 23 00-0250	WK	1-1/2" x 8' x 15' Steel Plate	427.28	
01 22 23 00-0251	MO	1-1/2" x 8' x 15' Steel Plate	1,139.42	
		For >6 Months (>26 Weeks), Deduct	-45.58	
01 22 23 00-0252	LF	Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.70	1.18
01 22 23 00-0253	EA	Removal And Resetting Of Steel Roadway Plate	34.67	

01 22 23 00-0254

Street Sweepers (01 22 23 00-0161)

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0255	DAY	8' Road Broom, Self-Propelled Street Sweeper With Full-Time Operator.....	1,228.39	
		For Equipment Without Operator, Deduct	-1,027.85	
		For Half Day Usage, Deduct	-576.59	
01 22 23 00-0256	WK	8' Road Broom, Self-Propelled Street Sweeper With Full-Time Operator.....	5,933.90	
		For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-0257	MO	8' Road Broom, Self-Propelled Street Sweeper With Full-Time Operator.....	25,101.28	
		For Equipment Without Operator, Deduct	-22,270.10	
		For >6 Months (>26 Weeks), Deduct	-113.25	
01 22 23 00-0258	DAY	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	2,847.91	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		For Equipment Without Operator, Deduct	-1,027.85	
		For Half Day Usage, Deduct	-1,082.69	
01 22 23 00-0259	WK	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	12,429.52	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-0260	MO	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	48,287.32	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		For Equipment Without Operator, Deduct	-22,270.10	
		For >6 Months (>26 Weeks), Deduct	-1,040.69	

01 22 23 00-0261

Earthmoving Equipment (01 22 23)

01 22 23 00-0262

Skid-Steer Loaders (01 22 23 00-0261)

Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.



General Requirements			01
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Unit Prices			01 22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0263	DAY		700 Lb. Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator.....	1,379.01	
			For Equipment Without Operator, Deduct	-1,027.85	
			For Half Day Usage, Deduct	-623.66	
01 22 23 00-0264	WK		700 Lb. Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator.....	6,060.50	
			For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-0265	MO		700 Lb. Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator.....	24,488.74	
			For Equipment Without Operator, Deduct	-22,270.10	
			For >6 Months (>26 Weeks), Deduct	-88.75	
01 22 23 00-0266	DAY		1,500 To 1,700 Lb. Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,471.58	
			For Equipment Without Operator, Deduct	-1,027.85	
			For Half Day Usage, Deduct	-652.59	
01 22 23 00-0267	WK		1,500 To 1,700 Lb. Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	6,228.00	
			For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-0268	MO		1,500 To 1,700 Lb. Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	24,856.07	
			For Equipment Without Operator, Deduct	-22,270.10	
			For >6 Months (>26 Weeks), Deduct	-103.44	
01 22 23 00-0269	DAY		2,000 To 2,400 Lb. Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,498.03	
			For Equipment Without Operator, Deduct	-1,027.85	
			For Half Day Usage, Deduct	-660.86	
01 22 23 00-0270	WK		2,000 To 2,400 Lb. Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	6,468.97	
			For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-0271	MO		2,000 To 2,400 Lb. Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	25,495.21	
			For Equipment Without Operator, Deduct	-22,270.10	
			For >6 Months (>26 Weeks), Deduct	-129.00	
01 22 23 00-0272	DAY		2,500 To 2,700 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	1,600.88	
			For Equipment Without Operator, Deduct	-1,027.85	
			For Half Day Usage, Deduct	-693.00	
01 22 23 00-0273	WK		2,500 To 2,700 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	6,806.91	
			For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-0274	MO		2,500 To 2,700 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	26,611.88	
			For Equipment Without Operator, Deduct	-22,270.10	
			For >6 Months (>26 Weeks), Deduct	-173.67	
01 22 23 00-0275	DAY		3,200 To 3,500 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	1,777.19	
			For Equipment Without Operator, Deduct	-1,027.85	
			For Half Day Usage, Deduct	-748.09	
01 22 23 00-0276	WK		3,200 To 3,500 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	7,475.44	
			For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-0277	MO		3,200 To 3,500 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	28,257.50	
			For Equipment Without Operator, Deduct	-22,270.10	
			For >6 Months (>26 Weeks), Deduct	-239.50	
01 22 23 00-0278	DAY		Hydraulic Hammer Attachment For Skid-Steer Loaders	293.86	
			For Half Day Usage, Deduct	-91.83	
01 22 23 00-0279	WK		Hydraulic Hammer Attachment For Skid-Steer Loaders	977.08	
01 22 23 00-0280	MO		Hydraulic Hammer Attachment For Skid-Steer Loaders	2,600.66	
			For >6 Months (>26 Weeks), Deduct	-104.03	
01 22 23 00-0281	DAY		Forklift Attachment For Skid-Steer Loaders	63.18	
			For Half Day Usage, Deduct	-19.74	
01 22 23 00-0282	WK		Forklift Attachment For Skid-Steer Loaders	168.97	
01 22 23 00-0283	MO		Forklift Attachment For Skid-Steer Loaders	477.52	
			For >6 Months (>26 Weeks), Deduct	-19.10	
01 22 23 00-0284	DAY		Backhoe Attachment For Skid-Steer Loaders	139.58	
			For Half Day Usage, Deduct	-43.62	
01 22 23 00-0285	WK		Backhoe Attachment For Skid-Steer Loaders	335.00	
01 22 23 00-0286	MO		Backhoe Attachment For Skid-Steer Loaders	833.09	
			For >6 Months (>26 Weeks), Deduct	-33.32	
01 22 23 00-0287	DAY		Broom Attachment For Skid-Steer Loaders	138.11	
			For Half Day Usage, Deduct	-43.16	
01 22 23 00-0288	WK		Broom Attachment For Skid-Steer Loaders	374.67	
01 22 23 00-0289	MO		Broom Attachment For Skid-Steer Loaders	991.78	
			For >6 Months (>26 Weeks), Deduct	-39.67	
01 22 23 00-0290	DAY		Auger Attachment For Skid-Steer Loaders	120.48	
			Note: Excludes bits and extensions		
			For Half Day Usage, Deduct	-37.65	
01 22 23 00-0291	WK		Auger Attachment For Skid-Steer Loaders	332.06	
			Note: Excludes bits and extensions		
01 22 23 00-0292	MO		Auger Attachment For Skid-Steer Loaders	906.56	
			Note: Excludes bits and extensions		
			For >6 Months (>26 Weeks), Deduct	-36.26	
01 22 23 00-0293	DAY		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	33.21	
			Note: Excludes auger attachment		
			For Half Day Usage, Deduct	-10.38	
01 22 23 00-0294	WK		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	86.88	
			Note: Excludes auger attachment		
01 22 23 00-0295	MO		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	255.53	
			Note: Excludes auger attachment		
			For >6 Months (>26 Weeks), Deduct	-10.22	
01 22 23 00-0296	DAY		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	44.71	
			Note: Excludes auger attachment		
			For Half Day Usage, Deduct	-13.97	
01 22 23 00-0297	WK		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	111.15	
			Note: Excludes auger attachment		
01 22 23 00-0298	MO		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers	332.19	
			Note: Excludes auger attachment		
			For >6 Months (>26 Weeks), Deduct	-13.29	

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0299	DAY	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers.....	65.15	
		Note: Excludes auger attachment		
		For Half Day Usage, Deduct	-20.36	
01 22 23 00-0300	WK	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers.....	198.05	
		Note: Excludes auger attachment		
01 22 23 00-0301	MO	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers.....	587.72	
		Note: Excludes auger attachment		
		For >6 Months (>26 Weeks), Deduct	-23.51	
01 22 23 00-0302	DAY	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers	13.22	
		Note: Excludes auger attachment		
		For Half Day Usage, Deduct	-4.13	
01 22 23 00-0303	WK	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers	30.86	
		Note: Excludes auger attachment		
01 22 23 00-0304	MO	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers	82.28	
		Note: Excludes auger attachment		
		For >6 Months (>26 Weeks), Deduct	-3.29	
01 22 23 00-0305 Bulldozers (01 22 23 00-0261)				
		Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0306	DAY	70 HP, D3 Bulldozer With Full-Time Operator	1,478.33	
		For Equipment Without Operator, Deduct	-1,072.30	
		For Half Day Usage, Deduct	-663.03	
01 22 23 00-0307	WK	70 HP, D3 Bulldozer With Full-Time Operator	6,962.65	
		For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0308	MO	70 HP, D3 Bulldozer With Full-Time Operator	27,982.97	
		For Equipment Without Operator, Deduct	-23,233.15	
		For >6 Months (>26 Weeks), Deduct	-189.99	
01 22 23 00-0309	DAY	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	1,669.86	
		For Equipment Without Operator, Deduct	-1,072.30	
		For Half Day Usage, Deduct	-722.89	
01 22 23 00-0310	WK	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	7,736.41	
		For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0311	MO	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator.....	30,357.88	
		For Equipment Without Operator, Deduct	-23,233.15	
		For >6 Months (>26 Weeks), Deduct	-284.99	
01 22 23 00-0312	DAY	140 HP, D6 Bulldozer With Full-Time Operator	2,213.79	
		For Equipment Without Operator, Deduct	-1,072.30	
		For Half Day Usage, Deduct	-892.87	
01 22 23 00-0313	WK	140 HP, D6 Bulldozer With Full-Time Operator	9,912.13	
		For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0314	MO	140 HP, D6 Bulldozer With Full-Time Operator	36,869.73	
		For Equipment Without Operator, Deduct	-23,233.15	
		For >6 Months (>26 Weeks), Deduct	-545.46	
01 22 23 00-0315	DAY	200 HP, D7 Bulldozer With Full-Time Operator	2,696.43	
		For Equipment Without Operator, Deduct	-1,072.30	
		For Half Day Usage, Deduct	-1,043.69	
01 22 23 00-0316	WK	200 HP, D7 Bulldozer With Full-Time Operator	11,850.37	
		For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0317	MO	200 HP, D7 Bulldozer With Full-Time Operator	42,692.09	
		For Equipment Without Operator, Deduct	-23,233.15	
		For >6 Months (>26 Weeks), Deduct	-778.36	
01 22 23 00-0318	DAY	335 HP, D8 Bulldozer With Full-Time Operator	3,271.01	
		For Equipment Without Operator, Deduct	-1,072.30	
		For Half Day Usage, Deduct	-1,223.25	
01 22 23 00-0319	WK	335 HP, D8 Bulldozer With Full-Time Operator	14,148.67	
		For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0320	MO	335 HP, D8 Bulldozer With Full-Time Operator	49,586.99	
		For Equipment Without Operator, Deduct	-23,233.15	
		For >6 Months (>26 Weeks), Deduct	-1,054.15	
01 22 23 00-0321	DAY	460 HP, D9 Bulldozer With Full-Time Operator	3,592.77	
		For Equipment Without Operator, Deduct	-1,072.30	
		For Half Day Usage, Deduct	-1,323.80	
01 22 23 00-0322	WK	460 HP, D9 Bulldozer With Full-Time Operator	15,428.05	
		For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0323	MO	460 HP, D9 Bulldozer With Full-Time Operator	53,417.49	
		For Equipment Without Operator, Deduct	-23,233.15	
		For >6 Months (>26 Weeks), Deduct	-1,207.37	
01 22 23 00-0324 Motor Scraper (01 22 23 00-0261)				
		Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0325	DAY	11 CY Motor Scraper-Hauler With Full-Time Operator	2,371.77	
		For Equipment Without Operator, Deduct	-1,072.30	
		For Half Day Usage, Deduct	-942.23	
01 22 23 00-0326	WK	11 CY Motor Scraper-Hauler With Full-Time Operator	10,559.39	
		For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0327	MO	11 CY Motor Scraper-Hauler With Full-Time Operator	38,809.03	
		For Equipment Without Operator, Deduct	-23,233.15	
		For >6 Months (>26 Weeks), Deduct	-623.04	
01 22 23 00-0328	DAY	18 CY Motor Scraper-Hauler With Full-Time Operator	2,896.90	
		For Equipment Without Operator, Deduct	-1,072.30	
		For Half Day Usage, Deduct	-1,106.34	
01 22 23 00-0329	WK	18 CY Motor Scraper-Hauler With Full-Time Operator	12,659.91	
		For Equipment Without Operator, Deduct	-5,361.50	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0330 MO 18 CY Motor Scraper-Hauler With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	45,128.38 -23,233.15 -875.81	
01 22 23 00-0331 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	3,404.23 -1,072.30 -1,264.88	
01 22 23 00-0332 WK 24 CY Motor Scraper-Hauler With Full-Time Operator For Equipment Without Operator, Deduct	14,680.32 -5,361.50	
01 22 23 00-0333 MO 24 CY Motor Scraper-Hauler With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	51,180.72 -23,233.15 -1,117.90	
01 22 23 00-0334 Hydraulic Excavators (01 22 23 00-0261)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0335 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,439.42 -1,072.30 -650.88	
01 22 23 00-0336 WK 3/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	6,660.01 -5,361.50	
01 22 23 00-0337 MO 3/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	27,584.19 -23,233.15 -174.04	
01 22 23 00-0338 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,542.76 -1,072.30 -683.17	
01 22 23 00-0339 WK 1/2 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	7,115.51 -5,361.50	
01 22 23 00-0340 MO 1/2 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	29,406.19 -23,233.15 -246.92	
01 22 23 00-0341 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,575.39 -1,072.30 -693.37	
01 22 23 00-0342 WK 5/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	7,285.48 -5,361.50	
01 22 23 00-0343 MO 5/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	29,705.32 -23,233.15 -258.89	
01 22 23 00-0344 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,609.38 -1,072.30 -703.99	
01 22 23 00-0345 WK 3/4 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	7,441.84 -5,361.50	
01 22 23 00-0346 MO 3/4 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	30,004.46 -23,233.15 -270.85	
01 22 23 00-0347 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,636.58 -1,072.30 -712.49	
01 22 23 00-0348 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	7,605.00 -5,361.50	
01 22 23 00-0349 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	30,303.59 -23,233.15 -282.82	
01 22 23 00-0350 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,003.69 -1,072.30 -827.21	
01 22 23 00-0351 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	9,066.68 -5,361.50	
01 22 23 00-0352 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	34,348.70 -23,233.15 -444.62	
01 22 23 00-0353 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,058.08 -1,072.30 -844.21	
01 22 23 00-0354 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	9,304.63 -5,361.50	
01 22 23 00-0355 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	35,062.54 -23,233.15 -473.18	
01 22 23 00-0356 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,160.06 -1,072.30 -876.08	
01 22 23 00-0357 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	9,712.54 -5,361.50	
01 22 23 00-0358 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	36,286.27 -23,233.15 -522.12	
01 22 23 00-0359 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,275.63 -1,072.30 -912.19	
01 22 23 00-0360 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	10,168.04 -5,361.50	

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01 22 23 00-0361 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	37,645.97	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-576.51	
01 22 23 00-0362 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	2,309.63	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-922.82	
01 22 23 00-0363 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	10,304.01	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0364 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	38,053.88	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-592.83	
01 22 23 00-0365 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,635.96	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-1,024.79	
01 22 23 00-0366 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	11,616.12	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0367 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	41,997.01	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-750.55	
01 22 23 00-0368 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	3,105.05	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-1,171.38	
01 22 23 00-0369 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	13,478.91	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0370 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	47,571.78	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-973.55	
01 22 23 00-0371 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	3,682.92	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-1,351.97	
01 22 23 00-0372 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	15,790.40	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0373 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	54,506.25	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-1,250.92	
01 22 23 00-0374 DAY Up To 50' Depth, 50,000 Lb. Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	2,187.25	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-884.57	
01 22 23 00-0375 WK Up To 50' Depth, 50,000 Lb. Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	9,807.72	
For Equipment Without Operator, Deduct	-5,361.50	
01 22 23 00-0376 MO Up To 50' Depth, 50,000 Lb. Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	36,558.21	
For Equipment Without Operator, Deduct	-23,233.15	
For >6 Months (>26 Weeks), Deduct	-533.00	
01 22 23 00-0377 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	95.18	
For Half Day Usage, Deduct	-29.74	
01 22 23 00-0378 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	367.12	
01 22 23 00-0379 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,087.76	
For >6 Months (>26 Weeks), Deduct	-43.51	
01 22 23 00-0380 DAY 1,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	421.51	
For Half Day Usage, Deduct	-131.72	
01 22 23 00-0381 WK 1,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,114.95	
01 22 23 00-0382 MO 1,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,120.51	
For >6 Months (>26 Weeks), Deduct	-124.82	
01 22 23 00-0383 DAY 1,500 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	652.66	
For Half Day Usage, Deduct	-203.96	
01 22 23 00-0384 WK 1,500 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,665.63	
01 22 23 00-0385 MO 1,500 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,330.64	
For >6 Months (>26 Weeks), Deduct	-173.23	
01 22 23 00-0386 DAY 3,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	911.00	
For Half Day Usage, Deduct	-284.69	
01 22 23 00-0387 WK 3,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,454.26	
01 22 23 00-0388 MO 3,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,880.08	
For >6 Months (>26 Weeks), Deduct	-275.20	
01 22 23 00-0389 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	190.36	
For Half Day Usage, Deduct	-59.49	
01 22 23 00-0390 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	761.43	
01 22 23 00-0391 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,284.30	
For >6 Months (>26 Weeks), Deduct	-91.37	
01 22 23 00-0392 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	271.94	
For Half Day Usage, Deduct	-84.98	
01 22 23 00-0393 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,087.76	
01 22 23 00-0394 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,263.28	
For >6 Months (>26 Weeks), Deduct	-130.53	
01 22 23 00-0395 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	299.13	
For Half Day Usage, Deduct	-93.48	
01 22 23 00-0396 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,182.94	
01 22 23 00-0397 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,535.22	
For >6 Months (>26 Weeks), Deduct	-141.41	
01 22 23 00-0398 Mini-Excavators (01 22 23 00-0261)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0399 DAY 2,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,357.84	
For Equipment Without Operator, Deduct	-1,072.30	
For Half Day Usage, Deduct	-625.38	



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01 22 23 00-0400 WK 2,000 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct	6,170.52 -5,361.50	
01 22 23 00-0401 MO 2,000 Lb. Capacity, Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	25,014.36 -23,233.15 -71.25	
01 22 23 00-0402 DAY 3,500 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,364.64 -1,072.30 -627.51	
01 22 23 00-0403 WK 3,500 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct	6,190.92 -5,361.50	
01 22 23 00-0404 MO 3,500 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	25,442.66 -23,233.15 -88.38	
01 22 23 00-0405 DAY 6,000 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,398.63 -1,072.30 -638.13	
01 22 23 00-0406 WK 6,000 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct	6,286.10 -5,361.50	
01 22 23 00-0407 MO 6,000 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	25,503.85 -23,233.15 -90.83	
01 22 23 00-0408 DAY 7,500 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,412.22 -1,072.30 -642.38	
01 22 23 00-0409 WK 7,500 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct	6,333.69 -5,361.50	
01 22 23 00-0410 MO 7,500 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	25,531.04 -23,233.15 -91.92	
01 22 23 00-0411 DAY 9,500 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,493.81 -1,072.30 -667.87	
01 22 23 00-0412 WK 9,500 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct	6,401.67 -5,361.50	
01 22 23 00-0413 MO 9,500 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	26,319.67 -23,233.15 -123.46	
01 22 23 00-0414 DAY 11,000 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,500.61 -1,072.30 -670.00	
01 22 23 00-0415 WK 11,000 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct	6,741.60 -5,361.50	
01 22 23 00-0416 MO 11,000 Lb. Capacity, Mini-Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	26,353.66 -23,233.15 -124.82	
01 22 23 00-0417 Telescopic Hydraulic Excavators (Gradall) (01 22 23 00-0261)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0418 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	4,449.95 -1,072.30 -1,591.67	
01 22 23 00-0419 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct	13,300.05 -5,361.50	
01 22 23 00-0420 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	51,566.97 -23,233.15 -1,133.35	
01 22 23 00-0421 Road Graders (01 22 23 00-0261)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0422 DAY 50 To 60 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,407.38 -1,072.30 -953.36	
01 22 23 00-0423 WK 50 To 60 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct	8,832.70 -5,361.50	
01 22 23 00-0424 MO 50 To 60 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	32,578.67 -23,233.15 -373.82	
01 22 23 00-0425 DAY 80 To 100 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	3,066.01 -1,072.30 -1,159.18	
01 22 23 00-0426 WK 80 To 100 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct	10,292.38 -5,361.50	
01 22 23 00-0427 MO 80 To 100 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	37,028.93 -23,233.15 -551.83	
01 22 23 00-0428 DAY 130 To 140 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	3,557.02 -1,072.30 -1,312.63	
01 22 23 00-0429 WK 130 To 140 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct	11,746.72 -5,361.50	
01 22 23 00-0430 MO 130 To 140 HP Road Grader With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	42,391.48 -23,233.15 -766.33	

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01 22 23 00-0431	DAY	170 To 185 HP Road Grader With Full-Time Operator	4,303.18	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-1,545.80	
01 22 23 00-0432	WK	170 To 185 HP Road Grader With Full-Time Operator	18,285.03	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	
01 22 23 00-0433	MO	170 To 185 HP Road Grader With Full-Time Operator	68,465.45	
		<i>For Equipment Without Operator, Deduct</i>	-23,233.11	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-1,809.29	
01 22 23 00-0434		Loader-Backhoes With Standard Bucket (01 22 23 00-0261)		
		Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0435	DAY	1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	1,509.80	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-672.87	
01 22 23 00-0436	WK	1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	6,400.56	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	
01 22 23 00-0437	MO	1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	25,678.46	
		<i>For Equipment Without Operator, Deduct</i>	-23,233.15	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-97.81	
01 22 23 00-0438	DAY	1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	1,556.68	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-687.52	
01 22 23 00-0439	WK	1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	6,564.62	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	
01 22 23 00-0440	MO	1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	26,678.46	
		<i>For Equipment Without Operator, Deduct</i>	-23,233.15	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-137.81	
01 22 23 00-0441	DAY	1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	1,628.94	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-710.10	
01 22 23 00-0442	WK	1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	6,744.31	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	
01 22 23 00-0443	MO	1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	27,194.09	
		<i>For Equipment Without Operator, Deduct</i>	-23,233.15	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-158.44	
01 22 23 00-0444	DAY	1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	1,951.21	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-810.81	
01 22 23 00-0445	WK	1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	7,705.25	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	
01 22 23 00-0446	MO	1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	29,944.09	
		<i>For Equipment Without Operator, Deduct</i>	-23,233.15	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-268.44	
01 22 23 00-0447		Heavy-Duty Construction Loaders (01 22 23 00-0261)		
		Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0448	DAY	2-1/2 CY, 119 HP, Heavy-Duty Construction Loader With Full-Time Operator	1,529.58	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-679.05	
01 22 23 00-0449	WK	2-1/2 CY, 119 HP, Heavy-Duty Construction Loader With Full-Time Operator	7,169.50	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	
01 22 23 00-0450	MO	2-1/2 CY, 119 HP, Heavy-Duty Construction Loader With Full-Time Operator	28,650.10	
		<i>For Equipment Without Operator, Deduct</i>	-23,233.15	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-216.68	
01 22 23 00-0451	DAY	3 CY, 135 HP, Heavy-Duty Construction Loader With Full-Time Operator	1,909.46	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-797.76	
01 22 23 00-0452	WK	3 CY, 135 HP, Heavy-Duty Construction Loader With Full-Time Operator	7,584.56	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	
01 22 23 00-0453	MO	3 CY, 135 HP, Heavy-Duty Construction Loader With Full-Time Operator	28,861.15	
		<i>For Equipment Without Operator, Deduct</i>	-23,233.15	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-225.12	
01 22 23 00-0454	DAY	3-1/2 CY, 198 HP, Heavy-Duty Construction Loader With Full-Time Operator	1,993.88	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-824.14	
01 22 23 00-0455	WK	3-1/2 CY, 198 HP, Heavy-Duty Construction Loader With Full-Time Operator	7,809.68	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	
01 22 23 00-0456	MO	3-1/2 CY, 198 HP, Heavy-Duty Construction Loader With Full-Time Operator	29,423.95	
		<i>For Equipment Without Operator, Deduct</i>	-23,233.15	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-247.63	
01 22 23 00-0457	DAY	4-1/2 CY, 215 HP, Heavy-Duty Construction Loader With Full-Time Operator	2,226.04	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-896.69	
01 22 23 00-0458	WK	4-1/2 CY, 215 HP, Heavy-Duty Construction Loader With Full-Time Operator	8,421.72	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	
01 22 23 00-0459	MO	4-1/2 CY, 215 HP, Heavy-Duty Construction Loader With Full-Time Operator	30,871.65	
		<i>For Equipment Without Operator, Deduct</i>	-23,233.15	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-309.54	
01 22 23 00-0460	DAY	7-1/3 CY, 330 HP, Heavy-Duty Construction Loader With Full-Time Operator	2,824.02	
		<i>For Equipment Without Operator, Deduct</i>	-1,072.30	
		<i>For Half Day Usage, Deduct</i>	-1,083.56	
01 22 23 00-0461	WK	7-1/3 CY, 330 HP, Heavy-Duty Construction Loader With Full-Time Operator	12,354.29	
		<i>For Equipment Without Operator, Deduct</i>	-5,361.50	



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01 22 23 00-0462 MO 7-1/3 CY, 330 HP, Heavy-Duty Construction Loader With Full-Time Operator..... For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	44,197.45 -23,233.15 -838.57	
01 22 23 00-0463 DAY 13-1/2 CY, 690 HP, Heavy-Duty Construction Loader With Full-Time Operator..... For Equipment Without Operator, Deduct For Half Day Usage, Deduct	6,763.54 -1,072.30 -2,314.66	
01 22 23 00-0464 WK 13-1/2 CY, 690 HP, Heavy-Duty Construction Loader With Full-Time Operator..... For Equipment Without Operator, Deduct	23,842.25 -5,361.50	
01 22 23 00-0465 MO 13-1/2 CY, 690 HP, Heavy-Duty Construction Loader With Full-Time Operator..... For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	73,598.19 -23,233.15 -2,014.60	
01 22 23 00-0466 Tractors (01 22 23 00-0261) Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0467 DAY 20 To 29 HP Tractor..... For Half Day Usage, Deduct	456.00 -142.50	
01 22 23 00-0468 WK 20 To 29 HP Tractor.....	1,097.79	
01 22 23 00-0469 MO 20 To 29 HP Tractor..... For >6 Months (>26 Weeks), Deduct	2,964.03 -118.56	
01 22 23 00-0470 DAY 30 To 35 HP Tractor..... For Half Day Usage, Deduct	472.49 -147.65	
01 22 23 00-0471 WK 30 To 35 HP Tractor.....	1,216.41	
01 22 23 00-0472 MO 30 To 35 HP Tractor..... For >6 Months (>26 Weeks), Deduct	3,367.76 -134.71	
01 22 23 00-0473 DAY 40 To 45 HP Tractor..... For Half Day Usage, Deduct	482.54 -150.79	
01 22 23 00-0474 WK 40 To 45 HP Tractor.....	1,296.84	
01 22 23 00-0475 MO 40 To 45 HP Tractor..... For >6 Months (>26 Weeks), Deduct	3,558.76 -142.35	
01 22 23 00-0476 DAY 80 To 89 HP Tractor..... For Half Day Usage, Deduct	621.28 -194.15	
01 22 23 00-0477 WK 80 To 89 HP Tractor.....	1,761.89	
01 22 23 00-0478 MO 80 To 89 HP Tractor..... For >6 Months (>26 Weeks), Deduct	5,044.80 -201.79	
01 22 23 00-0479 DAY 60" Rotary Mower Attachment For Tractors..... For Half Day Usage, Deduct	195.03 -60.95	
01 22 23 00-0480 WK 60" Rotary Mower Attachment For Tractors.....	603.18	
01 22 23 00-0481 DAY 84" Rotary Mower Attachment For Tractors..... For Half Day Usage, Deduct	213.12 -66.60	
01 22 23 00-0482 WK 84" Rotary Mower Attachment For Tractors.....	653.44	
01 22 23 00-0483 DAY Under Deck Rotary Mower Attachment For Tractors..... For Half Day Usage, Deduct	42.44 -13.26	
01 22 23 00-0484 WK Under Deck Rotary Mower Attachment For Tractors.....	169.77	
01 22 23 00-0485 Shoring (01 22 23 00-0261) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0486 Aluminum Hydraulic Shoring (01 22 23 00-0485) Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0487 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	157.07	
01 22 23 00-0488 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width. For >6 Months (>26 Weeks), Deduct	463.29 -18.53	
01 22 23 00-0489 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	210.71	
01 22 23 00-0490 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width. For >6 Months (>26 Weeks), Deduct	621.49 -24.86	
01 22 23 00-0491 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	390.70	
01 22 23 00-0492 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width. For >6 Months (>26 Weeks), Deduct	1,152.57 -46.10	
01 22 23 00-0493 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	30.02	
01 22 23 00-0494 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	48.04	
01 22 23 00-0495 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	80.05	
01 22 23 00-0496 Slide Rail Shoring (01 22 23 00-0485) Note: Excludes delivery to job site and pick-up when complete.		
01 22 23 00-0497 WK 4' x 12' Slide Rail Panel.....	235.83	
01 22 23 00-0498 MO 4' x 12' Slide Rail Panel.....	707.49	
01 22 23 00-0499 WK 8' x 12' Slide Rail Panel.....	385.34	
01 22 23 00-0500 MO 8' x 12' Slide Rail Panel.....	1,156.02	
01 22 23 00-0501 WK 4' x 16' Slide Rail Panel.....	307.53	
01 22 23 00-0502 MO 4' x 16' Slide Rail Panel.....	922.59	
01 22 23 00-0503 WK 8' x 16' Slide Rail Panel.....	503.20	
01 22 23 00-0504 MO 8' x 16' Slide Rail Panel.....	1,509.61	
01 22 23 00-0505 WK 4' x 20' Slide Rail Panel.....	394.55	
01 22 23 00-0506 MO 4' x 20' Slide Rail Panel.....	1,183.65	
01 22 23 00-0507 WK 8' x 20' Slide Rail Panel.....	694.97	

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01 22 23 00-0508 MO 8' x 20' Slide Rail Panel	2,084.91	
01 22 23 00-0509 WK 14' Stacking Post	352.49	
01 22 23 00-0510 MO 14' Stacking Post	1,057.48	
01 22 23 00-0511 WK Stacking Brackets	11.02	
01 22 23 00-0512 MO Stacking Brackets	33.05	
01 22 23 00-0513 EA Set Up And Remove 4' x 12' Slide Rail Panel	277.32	
01 22 23 00-0514 EA Set Up And Remove 8' x 12' Slide Rail Panel	415.98	
01 22 23 00-0515 EA Set Up And Remove 4' x 16' Slide Rail Panel	415.98	
01 22 23 00-0516 EA Set Up And Remove 8' x 16' Slide Rail Panel	554.64	
01 22 23 00-0517 EA Set Up And Remove 4' x 20' Slide Rail Panel	554.64	
01 22 23 00-0518 EA Set Up And Remove 8' x 20' Slide Rail Panel	693.29	
01 22 23 00-0519 EA Set Up And Remove 14' Stacking Post	415.98	
01 22 23 00-0520 EA Set Up And Remove Stacking Brackets	138.66	
01 22 23 00-0521 EA Stacking Brackets Rigging Tub	2,065.39	
 01 22 23 00-0522 Trench Boxes/Trench Shields (01 22 23 00-0261)		
Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0523 WK 4' x 6' Trench Box With Up To 48" Spreaders	301.03	
01 22 23 00-0524 MO 4' x 6' Trench Box With Up To 48" Spreaders	903.08	
For >6 Months (>26 Weeks), Deduct	-36.12	
01 22 23 00-0525 WK 6' x 6' Trench Box With Up To 48" Spreaders	339.87	
01 22 23 00-0526 MO 6' x 6' Trench Box With Up To 48" Spreaders	1,019.60	
For >6 Months (>26 Weeks), Deduct	-40.78	
01 22 23 00-0527 WK 8' x 6' Trench Box With Up To 48" Spreaders	359.29	
01 22 23 00-0528 MO 8' x 6' Trench Box With Up To 48" Spreaders	1,077.87	
For >6 Months (>26 Weeks), Deduct	-43.11	
01 22 23 00-0529 WK 4' x 8' Trench Box With Up To 48" Spreaders	330.16	
01 22 23 00-0530 MO 4' x 8' Trench Box With Up To 48" Spreaders	990.47	
For >6 Months (>26 Weeks), Deduct	-39.62	
01 22 23 00-0531 WK 6' x 8' Trench Box With Up To 48" Spreaders	388.42	
01 22 23 00-0532 MO 6' x 8' Trench Box With Up To 48" Spreaders	1,165.26	
For >6 Months (>26 Weeks), Deduct	-46.61	
01 22 23 00-0533 WK 8' x 8' Trench Box With Up To 48" Spreaders	436.97	
01 22 23 00-0534 MO 8' x 8' Trench Box With Up To 48" Spreaders	1,310.92	
For >6 Months (>26 Weeks), Deduct	-52.44	
01 22 23 00-0535 WK 4' x 10' Trench Box With Up To 48" Spreaders	369.00	
01 22 23 00-0536 MO 4' x 10' Trench Box With Up To 48" Spreaders	1,107.00	
For >6 Months (>26 Weeks), Deduct	-44.28	
01 22 23 00-0537 WK 6' x 10' Trench Box With Up To 48" Spreaders	436.97	
01 22 23 00-0538 MO 6' x 10' Trench Box With Up To 48" Spreaders	1,310.92	
For >6 Months (>26 Weeks), Deduct	-52.44	
01 22 23 00-0539 WK 8' x 10' Trench Box With Up To 48" Spreaders	534.08	
01 22 23 00-0540 MO 8' x 10' Trench Box With Up To 48" Spreaders	1,592.52	
For >6 Months (>26 Weeks), Deduct	-63.70	
01 22 23 00-0541 WK 4' x 12' Trench Box With Up To 48" Spreaders	436.97	
01 22 23 00-0542 MO 4' x 12' Trench Box With Up To 48" Spreaders	1,310.92	
For >6 Months (>26 Weeks), Deduct	-52.44	
01 22 23 00-0543 WK 6' x 12' Trench Box With Up To 48" Spreaders	534.08	
01 22 23 00-0544 MO 6' x 12' Trench Box With Up To 48" Spreaders	1,602.23	
For >6 Months (>26 Weeks), Deduct	-64.09	
01 22 23 00-0545 WK 8' x 12' Trench Box With Up To 48" Spreaders	679.74	
01 22 23 00-0546 MO 8' x 12' Trench Box With Up To 48" Spreaders	2,039.20	
For >6 Months (>26 Weeks), Deduct	-81.57	
01 22 23 00-0547 WK 4' x 14' Trench Box With Up To 48" Spreaders	485.52	
01 22 23 00-0548 MO 4' x 14' Trench Box With Up To 48" Spreaders	1,456.58	
For >6 Months (>26 Weeks), Deduct	-58.26	
01 22 23 00-0549 WK 6' x 14' Trench Box With Up To 48" Spreaders	631.18	
01 22 23 00-0550 MO 6' x 14' Trench Box With Up To 48" Spreaders	1,893.55	
For >6 Months (>26 Weeks), Deduct	-75.74	
01 22 23 00-0551 WK 8' x 14' Trench Box With Up To 48" Spreaders	776.84	
01 22 23 00-0552 MO 8' x 14' Trench Box With Up To 48" Spreaders	2,330.52	
For >6 Months (>26 Weeks), Deduct	-93.22	
01 22 23 00-0553 WK 4' x 16' Trench Box With Up To 48" Spreaders	534.08	
01 22 23 00-0554 MO 4' x 16' Trench Box With Up To 48" Spreaders	1,602.23	
For >6 Months (>26 Weeks), Deduct	-64.09	
01 22 23 00-0555 WK 6' x 16' Trench Box With Up To 48" Spreaders	728.29	
01 22 23 00-0556 MO 6' x 16' Trench Box With Up To 48" Spreaders	2,184.86	
For >6 Months (>26 Weeks), Deduct	-87.39	
01 22 23 00-0557 WK 8' x 16' Trench Box With Up To 48" Spreaders	873.94	
01 22 23 00-0558 MO 8' x 16' Trench Box With Up To 48" Spreaders	2,621.84	
For >6 Months (>26 Weeks), Deduct	-104.87	
01 22 23 00-0559 WK 4' x 20' Trench Box With Up To 48" Spreaders	631.18	
01 22 23 00-0560 MO 4' x 20' Trench Box With Up To 48" Spreaders	1,893.55	
For >6 Months (>26 Weeks), Deduct	-75.74	
01 22 23 00-0561 WK 6' x 20' Trench Box With Up To 48" Spreaders	873.94	
01 22 23 00-0562 MO 6' x 20' Trench Box With Up To 48" Spreaders	2,621.84	
For >6 Months (>26 Weeks), Deduct	-104.87	
01 22 23 00-0563 WK 8' x 20' Trench Box With Up To 48" Spreaders	1,019.60	
01 22 23 00-0564 MO 8' x 20' Trench Box With Up To 48" Spreaders	3,058.81	
For >6 Months (>26 Weeks), Deduct	-122.35	
01 22 23 00-0565 WK 4' x 24' Trench Box With Up To 48" Spreaders	873.94	



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01 22 23 00-0566 MO 4' x 24' Trench Box With Up To 48" Spreaders.....	2,621.84	
For >6 Months (>26 Weeks), Deduct	-104.87	
01 22 23 00-0567 WK 6' x 24' Trench Box With Up To 48" Spreaders.....	1,068.16	
01 22 23 00-0568 MO 6' x 24' Trench Box With Up To 48" Spreaders.....	3,204.46	
For >6 Months (>26 Weeks), Deduct	-128.18	
01 22 23 00-0569 WK 8' x 24' Trench Box With Up To 48" Spreaders.....	1,165.26	
01 22 23 00-0570 MO 8' x 24' Trench Box With Up To 48" Spreaders.....	3,495.78	
For >6 Months (>26 Weeks), Deduct	-139.83	
01 22 23 00-0571 WK For Spreaders >48" To 84", Add.....	29.13	
01 22 23 00-0572 MO For Spreaders >48" To 84", Add.....	87.39	
For >6 Months (>26 Weeks), Deduct	-3.50	
01 22 23 00-0573 WK For Spreaders >84" To 120", Add.....	174.79	
01 22 23 00-0574 MO For Spreaders >84" To 120", Add.....	524.37	
For >6 Months (>26 Weeks), Deduct	-20.97	
01 22 23 00-0575 WK For Spreaders >120", Add.....	369.00	
01 22 23 00-0576 MO For Spreaders >120", Add.....	1,107.00	
For >6 Months (>26 Weeks), Deduct	-44.28	
01 22 23 00-0577 WK 8' x 4' Manhole Box.....	458.82	
01 22 23 00-0578 MO 8' x 4' Manhole Box.....	1,376.46	
For >6 Months (>26 Weeks), Deduct	-55.06	
01 22 23 00-0579 WK 8' x 8' Manhole Box.....	655.46	
01 22 23 00-0580 MO 8' x 8' Manhole Box.....	1,966.38	
For >6 Months (>26 Weeks), Deduct	-78.66	
01 22 23 00-0581 Trenchers (01 22 23 00-0261)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0582 DAY 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,349.55	
For Equipment Without Operator, Deduct	-1,027.85	
For Half Day Usage, Deduct	-614.46	
01 22 23 00-0583 WK 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	6,235.03	
For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-0584 MO 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	25,286.00	
For Equipment Without Operator, Deduct	-22,270.10	
For >6 Months (>26 Weeks), Deduct	-120.64	
01 22 23 00-0585 DAY 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,892.41	
For Equipment Without Operator, Deduct	-1,027.85	
For Half Day Usage, Deduct	-784.10	
01 22 23 00-0586 WK 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	8,064.67	
For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-0587 MO 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	30,312.50	
For Equipment Without Operator, Deduct	-22,270.10	
For >6 Months (>26 Weeks), Deduct	-321.70	
01 22 23 00-0588 Portable Sediment Tank (01 22 23 00-0261)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0589 WK Portable Sediment Tank	212.21	
01 22 23 00-0590 MO Portable Sediment Tank	622.49	
For >6 Months (>26 Weeks), Deduct	-24.90	
01 22 23 00-0591 Heavy Equipment (Ground Protection) Mats (01 22 23 00-0261)		
Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0261 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0592 DAY 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	27.89	
For Half Day Usage, Deduct	-8.72	
01 22 23 00-0593 WK 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	66.41	
01 22 23 00-0594 MO 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	139.46	
For >6 Months (>26 Weeks), Deduct	-5.58	
01 22 23 00-0595 DAY 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	29.29	
For Half Day Usage, Deduct	-9.15	
01 22 23 00-0596 WK 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	69.73	
01 22 23 00-0597 MO 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	146.43	
For >6 Months (>26 Weeks), Deduct	-5.86	
01 22 23 00-0598 Day 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	23.71	
For Half Day Usage, Deduct	-7.41	
01 22 23 00-0599 WK 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	55.78	
01 22 23 00-0600 MO 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	118.54	
For >6 Months (>26 Weeks), Deduct	-4.74	
01 22 23 00-0601 Day 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	26.50	
For Half Day Usage, Deduct	-8.28	
01 22 23 00-0602 WK 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	62.76	
01 22 23 00-0603 MO 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	132.49	
For >6 Months (>26 Weeks), Deduct	-5.30	
01 22 23 00-0604 Day 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	29.29	
For Half Day Usage, Deduct	-9.15	
01 22 23 00-0605 WK 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	69.73	
01 22 23 00-0606 MO 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	146.43	
For >6 Months (>26 Weeks), Deduct	-5.86	
01 22 23 00-0607 Day 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	32.08	
For Half Day Usage, Deduct	-10.03	
01 22 23 00-0608 WK 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	76.37	

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01 22 23 00-0609	MO	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	160.38	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-6.42	
01 22 23 00-0610	Day	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	25.10	
		<i>For Half Day Usage, Deduct</i>	-7.84	
01 22 23 00-0611	WK	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	69.73	
01 22 23 00-0612	MO	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	125.51	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-5.02	
01 22 23 00-0613	Day	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	29.29	
		<i>For Half Day Usage, Deduct</i>	-9.15	
01 22 23 00-0614	WK	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	69.73	
01 22 23 00-0615	MO	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	146.43	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-5.86	
01 22 23 00-0616	Day	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	34.86	
		<i>For Half Day Usage, Deduct</i>	-10.89	
01 22 23 00-0617	WK	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	76.70	
01 22 23 00-0618	MO	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	174.32	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-6.97	
01 22 23 00-0619	Day	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	37.65	
		<i>For Half Day Usage, Deduct</i>	-11.77	
01 22 23 00-0620	WK	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	89.65	
01 22 23 00-0621	MO	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	188.27	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-7.53	
01 22 23 00-0622	Day	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	40.44	
		<i>For Half Day Usage, Deduct</i>	-12.64	
01 22 23 00-0623	WK	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	96.29	
01 22 23 00-0624	MO	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	202.22	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-8.09	
01 22 23 00-0625	Day	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	41.84	
		<i>For Half Day Usage, Deduct</i>	-13.08	
01 22 23 00-0626	WK	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	99.61	
01 22 23 00-0627	MO	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	209.19	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-8.37	
01 22 23 00-0628	Day	14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	13.42	
		<i>For Half Day Usage, Deduct</i>	-4.19	
01 22 23 00-0629	WK	14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	33.54	
01 22 23 00-0630	MO	14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	100.62	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-4.02	
01 22 23 00-0631	Day	14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	16.04	
		<i>For Half Day Usage, Deduct</i>	-5.01	
01 22 23 00-0632	WK	14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	40.09	
01 22 23 00-0633	MO	14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	120.28	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-4.81	
01 22 23 00-0634	Day	16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	18.32	
		<i>For Half Day Usage, Deduct</i>	-5.73	
01 22 23 00-0635	WK	16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	45.79	
01 22 23 00-0636	MO	16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	137.37	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-5.49	
01 22 23 00-0637	Day	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	19.52	
		<i>For Half Day Usage, Deduct</i>	-6.10	
01 22 23 00-0638	WK	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	48.81	
01 22 23 00-0639	MO	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	146.43	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-5.86	
01 22 23 00-0640	Day	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	22.31	
		<i>For Half Day Usage, Deduct</i>	-6.97	
01 22 23 00-0641	WK	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	55.78	
01 22 23 00-0642	MO	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	167.35	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-6.69	
01 22 23 00-0643	Day	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	25.64	
		<i>For Half Day Usage, Deduct</i>	-8.01	
01 22 23 00-0644	WK	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	64.11	
01 22 23 00-0645	MO	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	192.32	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-7.69	
01 22 23 00-0646	Day	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	19.73	
		<i>For Half Day Usage, Deduct</i>	-6.17	
01 22 23 00-0647	WK	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	49.32	
01 22 23 00-0648	MO	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	147.97	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-5.92	
01 22 23 00-0649	Day	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	26.71	
		<i>For Half Day Usage, Deduct</i>	-8.35	
01 22 23 00-0650	WK	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	66.78	
01 22 23 00-0651	MO	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	200.33	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-8.01	
01 22 23 00-0652	Day	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	23.09	
		<i>For Half Day Usage, Deduct</i>	-7.22	
01 22 23 00-0653	WK	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	57.74	
01 22 23 00-0654	MO	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	173.21	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-6.93	
01 22 23 00-0655	Day	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	38.52	
		<i>For Half Day Usage, Deduct</i>	-12.04	
01 22 23 00-0656	WK	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	96.29	
01 22 23 00-0657	MO	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	288.88	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-11.56	
01 22 23 00-0658	Day	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	41.06	
		<i>For Half Day Usage, Deduct</i>	-12.83	



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01 22 23 00-0659	WK	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	102.64		
01 22 23 00-0660	MO	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	307.93		
		For >6 Months (>26 Weeks), Deduct	-12.32		
01 22 23 00-0661	Electrical Equipment (01 22 23)				
01 22 23 00-0662	Tripod Mounted Floodlights (01 22 23 00-0661)				
		Note: Includes delivery to job site and pick-up when complete.			
01 22 23 00-0663	DAY	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	81.30		
		For Half Day Usage, Deduct	-25.41		
01 22 23 00-0664	WK	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	192.35		
01 22 23 00-0665	MO	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	406.52		
		For >6 Months (>26 Weeks), Deduct	-16.26		
01 22 23 00-0666	DAY	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	81.30		
		For Half Day Usage, Deduct	-25.41		
01 22 23 00-0667	WK	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	237.96		
01 22 23 00-0668	MO	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	703.96		
		For >6 Months (>26 Weeks), Deduct	-28.16		
01 22 23 00-0669	DAY	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	91.22		
		For Half Day Usage, Deduct	-28.51		
01 22 23 00-0670	WK	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	247.88		
01 22 23 00-0671	MO	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	604.82		
		For >6 Months (>26 Weeks), Deduct	-24.19		
01 22 23 00-0672	Trailer Mounted Floodlights (01 22 23 00-0661)				
		Note: Includes delivery to job site and pick-up when complete. Excludes operator.			
01 22 23 00-0673	DAY	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	228.04		
		For Half Day Usage, Deduct	-71.26		
01 22 23 00-0674	WK	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	505.66		
01 22 23 00-0675	MO	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	1,090.65		
		For >6 Months (>26 Weeks), Deduct	-43.63		
01 22 23 00-0676	Generator Sets (01 22 23 00-0661)				
01 22 23 00-0677	Portable, Gas Powered Generator Sets (01 22 23 00-0676)				
		Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0829 for reimbursable fuel fees.			
01 22 23 00-0678	DAY	3.6 KW Gas Powered Generator Set	55.05		
		Note: Fuel consumption: 100% load - 0.54 gallons per hour			
		For LP Or NG Gas, Add	6.88		
		For Half Day Usage, Deduct	-17.20		
01 22 23 00-0679	WK	3.6 KW Gas Powered Generator Set	198.43		
		Note: Fuel consumption: 100% load - 0.54 gallons per hour			
		For LP Or NG Gas, Add	24.80		
01 22 23 00-0680	MO	3.6 KW Gas Powered Generator Set	550.49		
		Note: Fuel consumption: 100% load - 0.54 gallons per hour			
		For LP Or NG Gas, Add	68.81		
		For >6 Months (>26 Weeks), Deduct	-22.02		
01 22 23 00-0681	DAY	5 KW Gas Powered Generator Set	78.09		
		Note: Fuel consumption: 100% load - 0.75 gallons per hour			
		For LP Or NG Gas, Add	9.76		
		For Half Day Usage, Deduct	-24.40		
01 22 23 00-0682	WK	5 KW Gas Powered Generator Set	249.64		
		Note: Fuel consumption: 100% load - 0.75 gallons per hour			
		For LP Or NG Gas, Add	31.21		
01 22 23 00-0683	MO	5 KW Gas Powered Generator Set	569.69		
		Note: Fuel consumption: 100% load - 0.75 gallons per hour			
		For LP Or NG Gas, Add	71.21		
		For >6 Months (>26 Weeks), Deduct	-22.79		
01 22 23 00-0684	DAY	6.5 KW Gas Powered Generator Set	99.86		
		Note: Fuel consumption: 100% load - 0.975 gallons per hour			
		For LP Or NG Gas, Add	12.48		
		For Half Day Usage, Deduct	-31.21		
01 22 23 00-0685	WK	6.5 KW Gas Powered Generator Set	268.84		
		Note: Fuel consumption: 100% load - 0.975 gallons per hour			
		For LP Or NG Gas, Add	33.61		
01 22 23 00-0686	MO	6.5 KW Gas Powered Generator Set	742.52		
		Note: Fuel consumption: 100% load - 0.975 gallons per hour			
		For LP Or NG Gas, Add	92.82		
		For >6 Months (>26 Weeks), Deduct	-29.70		
01 22 23 00-0687	DAY	10 KW Gas Powered Generator Set	111.38		
		Note: Fuel consumption: 100% load - 1.35 gallons per hour			
		For LP Or NG Gas, Add	13.92		
		For Half Day Usage, Deduct	-34.81		
01 22 23 00-0688	WK	10 KW Gas Powered Generator Set	300.85		
		Note: Fuel consumption: 100% load - 1.35 gallons per hour			
		For LP Or NG Gas, Add	37.61		
01 22 23 00-0689	MO	10 KW Gas Powered Generator Set	864.14		
		Note: Fuel consumption: 100% load - 1.35 gallons per hour			
		For LP Or NG Gas, Add	108.02		
		For >6 Months (>26 Weeks), Deduct	-34.57		

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01 22 23 00-0690 DAY 15 KW Gas Powered Generator Set.....	203.94	
Note: Fuel consumption: 100% load – 1.70 gallons per hour		
For LP Or NG Gas, Add	25.49	
For Half Day Usage, Deduct	-63.73	
01 22 23 00-0691 WK 15 KW Gas Powered Generator Set.....	579.34	
Note: Fuel consumption: 100% load – 1.6 gallons per hour		
For LP Or NG Gas, Add	72.42	
01 22 23 00-0692 MO 15 KW Gas Powered Generator Set.....	1,251.40	
Note: Fuel consumption: 100% load – 1.6 gallons per hour		
For LP Or NG Gas, Add	156.43	
For >6 Months (>26 Weeks), Deduct	-50.06	
01 22 23 00-0693 Towable, Diesel Powered Generator Sets (01 22 23 00-0676)		
Note: Includes 24 hour day-tank on sizes up to 180 KW, 40 hour day-tank for sizes greater than 180 KW To 300 KW and 1,000 gallon for sizes greater than 300 KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0829 for reimbursable fuel fees.		
01 22 23 00-0694 DAY 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	229.16	
Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	91.66	
For >16 To 24 Hours Usage Per Day, Add	183.33	
For Tier 4 Diesel Generator, Add	83.64	
01 22 23 00-0695 WK 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	599.13	
Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	239.65	
For >80 Hours Usage Per Week, Add	479.30	
For Tier 4 Diesel Generator, Add	218.68	
01 22 23 00-0696 MO 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,632.26	
Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	652.90	
For >320 Hours Usage Per Month, Add	1,305.81	
For >6 Months (>26 Weeks), Deduct	-65.29	
For Tier 4 Diesel Generator, Add	595.77	
01 22 23 00-0697 DAY 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	374.91	
Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	149.96	
For >16 To 24 Hours Usage Per Day, Add	299.93	
For Tier 4 Diesel Generator, Add	136.84	
01 22 23 00-0698 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,112.65	
Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	445.06	
For >80 Hours Usage Per Week, Add	890.12	
For Tier 4 Diesel Generator, Add	406.12	
01 22 23 00-0699 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,297.86	
Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	919.14	
For >320 Hours Usage Per Month, Add	1,838.29	
For >6 Months (>26 Weeks), Deduct	-91.91	
For Tier 4 Diesel Generator, Add	838.72	
01 22 23 00-0700 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	411.20	
Note: Fuel consumption: 100% load – 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	164.48	
For >16 To 24 Hours Usage Per Day, Add	328.96	
For Tier 4 Diesel Generator, Add	150.09	
01 22 23 00-0701 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,148.93	
Note: Fuel consumption: 100% load – 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	459.57	
For >80 Hours Usage Per Week, Add	919.14	
For Tier 4 Diesel Generator, Add	419.36	
01 22 23 00-0702 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,539.74	
Note: Fuel consumption: 100% load – 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,015.90	
For >320 Hours Usage Per Month, Add	2,031.79	
For >6 Months (>26 Weeks), Deduct	-101.59	
For Tier 4 Diesel Generator, Add	927.01	
01 22 23 00-0703 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	441.43	
Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	176.57	
For >16 To 24 Hours Usage Per Day, Add	353.14	
For Tier 4 Diesel Generator, Add	161.12	
01 22 23 00-0704 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,209.40	
Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	483.76	
For >80 Hours Usage Per Week, Add	967.52	
For Tier 4 Diesel Generator, Add	441.43	



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01 22 23 00-0705	MO		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,902.56 Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 1,161.02 For >320 Hours Usage Per Month, Add 2,322.05 For >6 Months (>26 Weeks), Deduct -116.10 For Tier 4 Diesel Generator, Add 1,059.43		
01 22 23 00-0706	DAY		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set 483.76 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 193.50 For >16 To 24 Hours Usage Per Day, Add 387.01 For Tier 4 Diesel Generator, Add 176.57		
01 22 23 00-0707	WK		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,372.67 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 549.07 For >80 Hours Usage Per Week, Add 1,098.14 For Tier 4 Diesel Generator, Add 501.02		
01 22 23 00-0708	MO		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set 3,265.38 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 1,306.15 For >320 Hours Usage Per Month, Add 2,612.30 For >6 Months (>26 Weeks), Deduct -130.62 For Tier 4 Diesel Generator, Add 1,191.86		
01 22 23 00-0709	DAY		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set 544.23 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 217.69 For >16 To 24 Hours Usage Per Day, Add 435.38 For Tier 4 Diesel Generator, Add 198.64		
01 22 23 00-0710	WK		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,451.28 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 580.51 For >80 Hours Usage Per Week, Add 1,161.02 For Tier 4 Diesel Generator, Add 529.72		
01 22 23 00-0711	MO		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set 3,628.20 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 1,451.28 For >320 Hours Usage Per Month, Add 2,902.56 For >6 Months (>26 Weeks), Deduct -145.13 For Tier 4 Diesel Generator, Add 1,324.29		
01 22 23 00-0712	DAY		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set 562.37 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 224.95 For >16 To 24 Hours Usage Per Day, Add 449.90 For Tier 4 Diesel Generator, Add 177.15		
01 22 23 00-0713	WK		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,511.75 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 604.70 For >80 Hours Usage Per Week, Add 1,209.40 For Tier 4 Diesel Generator, Add 476.20		
01 22 23 00-0714	MO		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set 4,111.96 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 1,644.78 For >320 Hours Usage Per Month, Add 3,289.57 For >6 Months (>26 Weeks), Deduct -164.48 For Tier 4 Diesel Generator, Add 1,295.27		
01 22 23 00-0715	DAY		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set 634.94 Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 253.98 For >16 To 24 Hours Usage Per Day, Add 507.95 For Tier 4 Diesel Generator, Add 200.01		
01 22 23 00-0716	WK		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,753.63 Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 701.45 For >80 Hours Usage Per Week, Add 1,402.90 For Tier 4 Diesel Generator, Add 552.39		
01 22 23 00-0717	MO		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set 4,716.66 Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 1,886.66 For >320 Hours Usage Per Month, Add 3,773.33 For >6 Months (>26 Weeks), Deduct -188.67 For Tier 4 Diesel Generator, Add 1,485.75		

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01 22 23 00-0718	DAY	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	665.17		
		Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	266.07		
		For >16 To 24 Hours Usage Per Day, Add	532.14		
		For Tier 4 Diesel Generator, Add	209.53		
01 22 23 00-0719	WK	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,844.34		
		Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	737.74		
		For >80 Hours Usage Per Week, Add	1,475.47		
		For Tier 4 Diesel Generator, Add	580.97		
01 22 23 00-0720	MO	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,200.42		
		Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	2,080.17		
		For >320 Hours Usage Per Month, Add	4,160.34		
		For >6 Months (>26 Weeks), Deduct	-208.02		
		For Tier 4 Diesel Generator, Add	1,638.13		
01 22 23 00-0721	DAY	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	695.40		
		Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	278.16		
		For >16 To 24 Hours Usage Per Day, Add	556.32		
		For Tier 4 Diesel Generator, Add	219.05		
01 22 23 00-0722	WK	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,995.51		
		Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	798.20		
		For >80 Hours Usage Per Week, Add	1,596.41		
		For Tier 4 Diesel Generator, Add	628.59		
01 22 23 00-0723	MO	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,442.30		
		Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	2,176.92		
		For >320 Hours Usage Per Month, Add	4,353.84		
		For >6 Months (>26 Weeks), Deduct	-217.69		
		For Tier 4 Diesel Generator, Add	1,714.32		
01 22 23 00-0724	DAY	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	725.64		
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	290.26		
		For >16 To 24 Hours Usage Per Day, Add	580.51		
		For Tier 4 Diesel Generator, Add	228.58		
01 22 23 00-0725	WK	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,116.45		
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	846.58		
		For >80 Hours Usage Per Week, Add	1,693.16		
		For Tier 4 Diesel Generator, Add	666.68		
01 22 23 00-0726	MO	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,684.18		
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	2,273.67		
		For >320 Hours Usage Per Month, Add	4,547.34		
		For >6 Months (>26 Weeks), Deduct	-227.37		
		For Tier 4 Diesel Generator, Add	1,790.52		
01 22 23 00-0727	DAY	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	725.64		
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	290.26		
		For >16 To 24 Hours Usage Per Day, Add	580.51		
		For Tier 4 Diesel Generator, Add	228.58		
01 22 23 00-0728	WK	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,116.45		
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	846.58		
		For >80 Hours Usage Per Week, Add	1,693.16		
		For Tier 4 Diesel Generator, Add	666.68		
01 22 23 00-0729	MO	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,684.18		
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	2,273.67		
		For >320 Hours Usage Per Month, Add	4,547.34		
		For >6 Months (>26 Weeks), Deduct	-227.37		
		For Tier 4 Diesel Generator, Add	1,790.52		
01 22 23 00-0730	DAY	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	997.76		
		Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	399.10		
		For >16 To 24 Hours Usage Per Day, Add	798.21		
		For Tier 4 Diesel Generator, Add	314.29		



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
01 22 23 00-0731	WK 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set	2,479.27		
	Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	991.71		
	For >80 Hours Usage Per Week, Add	1,983.42		
	For Tier 4 Diesel Generator, Add	780.97		
01 22 23 00-0732	MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set	7,256.40		
	Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	2,902.56		
	For >320 Hours Usage Per Month, Add	5,805.12		
	For >6 Months (>26 Weeks), Deduct	-290.26		
	For Tier 4 Diesel Generator, Add	2,285.77		
01 22 23 00-0733	DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set	1,058.22		
	Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	423.29		
	For >16 To 24 Hours Usage Per Day, Add	846.58		
	For Tier 4 Diesel Generator, Add	285.72		
01 22 23 00-0734	WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set	2,539.74		
	Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	1,015.90		
	For >80 Hours Usage Per Week, Add	2,031.79		
	For Tier 4 Diesel Generator, Add	685.73		
01 22 23 00-0735	MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set	7,498.28		
	Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	2,999.31		
	For >320 Hours Usage Per Month, Add	5,998.62		
	For >6 Months (>26 Weeks), Deduct	-299.93		
	For Tier 4 Diesel Generator, Add	2,024.54		
01 22 23 00-0736	DAY 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set	1,118.70		
	Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	447.48		
	For >16 To 24 Hours Usage Per Day, Add	894.96		
	For Tier 4 Diesel Generator, Add	302.05		
01 22 23 00-0737	WK 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set	2,600.21		
	Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	1,040.08		
	For >80 Hours Usage Per Week, Add	2,080.17		
	For Tier 4 Diesel Generator, Add	702.06		
01 22 23 00-0738	MO 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set	7,740.16		
	Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	3,096.06		
	For >320 Hours Usage Per Month, Add	6,192.13		
	For >6 Months (>26 Weeks), Deduct	-309.61		
	For Tier 4 Diesel Generator, Add	2,089.84		
01 22 23 00-0739	DAY 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set	1,154.98		
	Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	461.99		
	For >16 To 24 Hours Usage Per Day, Add	923.98		
	For Tier 4 Diesel Generator, Add	311.84		
01 22 23 00-0740	WK 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set	2,781.62		
	Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	1,112.65		
	For >80 Hours Usage Per Week, Add	2,225.30		
	For Tier 4 Diesel Generator, Add	751.04		
01 22 23 00-0741	MO 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set	8,223.92		
	Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	3,289.57		
	For >320 Hours Usage Per Month, Add	6,579.14		
	For >6 Months (>26 Weeks), Deduct	-328.96		
	For Tier 4 Diesel Generator, Add	2,220.46		
01 22 23 00-0742	DAY 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set	1,209.40		
	Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	483.76		
	For >16 To 24 Hours Usage Per Day, Add	967.52		
	For Tier 4 Diesel Generator, Add	326.54		
01 22 23 00-0743	WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set	3,144.44		
	Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	1,257.78		
	For >80 Hours Usage Per Week, Add	2,515.55		
	For Tier 4 Diesel Generator, Add	849.00		

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01 22 23 00-0744	MO	350.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i> <i>For Tier 4 Diesel Generator, Add</i>	9,070.50 3,628.20 7,256.40 -362.82 2,449.04	
01 22 23 00-0745	DAY	400.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i> <i>For Tier 4 Diesel Generator, Add</i>	2,185.21 874.08 1,748.17 590.01	
01 22 23 00-0746	WK	400.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i> <i>For Tier 4 Diesel Generator, Add</i>	5,649.79 2,259.92 4,519.83 1,525.44	
01 22 23 00-0747	MO	400.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i> <i>For Tier 4 Diesel Generator, Add</i>	14,941.60 5,976.64 11,953.28 -597.66 4,034.23	
01 22 23 00-0748	DAY	500.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i> <i>For Tier 4 Diesel Generator, Add</i>	2,801.55 1,120.62 2,241.24 756.42	
01 22 23 00-0749	WK	500.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i> <i>For Tier 4 Diesel Generator, Add</i>	7,284.03 2,913.61 5,827.22 1,966.69	
01 22 23 00-0750	MO	500.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i> <i>For Tier 4 Diesel Generator, Add</i>	16,809.30 6,723.72 13,447.44 -672.37 4,538.51	
01 22 23 00-0751	DAY	640.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i> <i>For Tier 4 Diesel Generator, Add</i>	3,464.58 1,385.83 2,771.66 848.82	
01 22 23 00-0752	WK	640.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i> <i>For Tier 4 Diesel Generator, Add</i>	9,151.73 3,660.69 7,321.38 2,242.17	
01 22 23 00-0753	MO	640.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i> <i>For Tier 4 Diesel Generator, Add</i>	22,412.40 8,964.96 17,929.92 -896.50 5,491.04	
01 22 23 00-0754	DAY	750.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i> <i>For Tier 4 Diesel Generator, Add</i>	3,744.74 1,497.90 2,995.79 917.46	
01 22 23 00-0755	WK	750.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i> <i>For Tier 4 Diesel Generator, Add</i>	8,628.77 3,451.51 6,903.02 2,114.05	
01 22 23 00-0756	MO	750.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i> <i>For Tier 4 Diesel Generator, Add</i>	25,886.32 10,354.53 20,709.06 -1,035.45 6,342.15	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
01 22 23 00-0757	DAY 1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	4,249.02		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	1,699.61		
	For >16 To 24 Hours Usage Per Day, Add	3,399.22		
	For Tier 4 Diesel Generator, Add	1,041.01		
01 22 23 00-0758	WK 1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	11,103.48		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	4,441.39		
	For >80 Hours Usage Per Week, Add	8,882.78		
	For Tier 4 Diesel Generator, Add	2,720.35		
01 22 23 00-0759	MO 1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	30,415.49		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	12,166.20		
	For >320 Hours Usage Per Month, Add	24,332.39		
	For >6 Months (>26 Weeks), Deduct	-1,216.62		
	For Tier 4 Diesel Generator, Add	7,451.80		
01 22 23 00-0760	DAY 1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	5,603.10		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	2,241.24		
	For >16 To 24 Hours Usage Per Day, Add	4,482.48		
	For Tier 4 Diesel Generator, Add	1,036.57		
01 22 23 00-0761	WK 1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	16,809.30		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	6,723.72		
	For >80 Hours Usage Per Week, Add	13,447.44		
	For Tier 4 Diesel Generator, Add	3,109.72		
01 22 23 00-0762	MO 1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	48,196.00		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	19,278.40		
	For >320 Hours Usage Per Month, Add	38,556.80		
	For Tier 4 Diesel Generator, Add	8,916.26		
01 22 23 00-0763	DAY 2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	7,386.75		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	2,954.70		
	For >16 To 24 Hours Usage Per Day, Add	5,909.40		
	For Tier 4 Diesel Generator, Add	1,366.55		
01 22 23 00-0764	WK 2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	18,471.55		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	7,388.62		
	For >80 Hours Usage Per Week, Add	14,777.24		
	For Tier 4 Diesel Generator, Add	3,417.24		
01 22 23 00-0765	MO 2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	50,427.90		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	20,171.16		
	For >320 Hours Usage Per Month, Add	40,342.32		
	For >6 Months (>26 Weeks), Deduct	-2,017.12		
	For Tier 4 Diesel Generator, Add	9,329.16		
01 22 23 00-0766	EA Delivery, Set-up, Testing And Pick-up For Up To 160 KW Towable Generator Set.....	959.07		
	Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.			
01 22 23 00-0767	EA Delivery, Set-up, Testing And Pick-up For 175 To 300 KW Towable Generator Set	1,305.57		
	Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.			
01 22 23 00-0768	EA Delivery, Set-up, Testing And Pick-up For 350 To 450 KW Towable Generator Set	1,700.45		
	Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.			
01 22 23 00-0769	EA Delivery, Set-up, Testing And Pick-up For 500 To 750 KW Towable Generator Set	2,159.73		
	Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.			
01 22 23 00-0770	EA Delivery, Set-up, Testing And Pick-up For 1,000 To 2,000 KW Towable Generator Set	2,989.70		
	Note: Includes set-up of generator accessories, cabling, load banks and distribution panels as required.			
01 22 23 00-0771	Cabling For Generator Sets (01 22 23 00-0676)			
	Note: Includes delivery to job site and pick-up when complete.			
01 22 23 00-0772	DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set	26.61		
	For Half Day Usage, Deduct	-8.32		
01 22 23 00-0773	WK #1 Banded Cable, 50' With Camlock Ends For Generator Set	46.56		
01 22 23 00-0774	MO #1 Banded Cable, 50' With Camlock Ends For Generator Set	139.69		
	For >6 Months (>26 Weeks), Deduct	-5.59		
01 22 23 00-0775	DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	13.30		
	For Half Day Usage, Deduct	-4.16		
01 22 23 00-0776	WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	38.70		
01 22 23 00-0777	MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	107.64		
	For >6 Months (>26 Weeks), Deduct	-4.31		
01 22 23 00-0778	Resistive Loadbanks For Generator Sets (01 22 23 00-0676)			
	Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0829 for reimbursable fuel fees.			
01 22 23 00-0779	DAY 100 KW A/C Resistive Load Bank	250.00		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0780	WK	100 KW A/C Resistive Load Bank	570.00	
01 22 23 00-0781	MO	100 KW A/C Resistive Load Bank	1,710.00	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-68.40	
01 22 23 00-0782	DAY	250 KW A/C Resistive Load Bank	313.00	
01 22 23 00-0783	WK	250 KW A/C Resistive Load Bank	690.00	
01 22 23 00-0784	MO	250 KW A/C Resistive Load Bank	2,068.00	
01 22 23 00-0785	DAY	400 KW A/C Resistive Load Bank	390.00	
01 22 23 00-0786	WK	400 KW A/C Resistive Load Bank	835.00	
01 22 23 00-0787	MO	400 KW A/C Resistive Load Bank	2,505.00	
01 22 23 00-0788	DAY	500 KW A/C Resistive Load Bank	457.00	
01 22 23 00-0789	WK	500 KW A/C Resistive Load Bank	1,250.00	
01 22 23 00-0790	MO	500 KW A/C Resistive Load Bank	3,750.00	
01 22 23 00-0791	DAY	650 KW A/C Resistive Load Bank	517.00	
01 22 23 00-0792	WK	650 KW A/C Resistive Load Bank	1,565.00	
01 22 23 00-0793	MO	650 KW A/C Resistive Load Bank	4,695.00	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-187.80	
01 22 23 00-0794	DAY	750 KW A/C Resistive Load Bank	549.00	
01 22 23 00-0795	WK	750 KW A/C Resistive Load Bank	1,733.00	
01 22 23 00-0796	MO	750 KW A/C Resistive Load Bank	5,199.00	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-207.96	
01 22 23 00-0797	DAY	1,000 KW A/C Resistive Load Bank	597.00	
01 22 23 00-0798	WK	1,000 KW A/C Resistive Load Bank	1,985.00	
01 22 23 00-0799	MO	1,000 KW A/C Resistive Load Bank	5,955.00	
01 22 23 00-0800	DAY	1,250 KW A/C Resistive Load Bank	657.00	
01 22 23 00-0801	WK	1,250 KW A/C Resistive Load Bank	2,300.00	
01 22 23 00-0802	MO	1,250 KW A/C Resistive Load Bank	6,900.00	
01 22 23 00-0803	DAY	1,500 KW A/C Resistive Load Bank	1,191.00	
01 22 23 00-0804	WK	1,500 KW A/C Resistive Load Bank	4,096.00	
01 22 23 00-0805	MO	1,500 KW A/C Resistive Load Bank	13,337.00	
01 22 23 00-0806	DAY	2,000 KW A/C Resistive Load Bank	1,445.00	
01 22 23 00-0807	WK	2,000 KW A/C Resistive Load Bank	5,000.00	
01 22 23 00-0808	MO	2,000 KW A/C Resistive Load Bank	16,500.00	
01 22 23 00-0809	DAY	2,500 KW A/C Resistive Load Bank	1,964.00	
01 22 23 00-0810	WK	2,500 KW A/C Resistive Load Bank	6,875.00	
01 22 23 00-0811	MO	2,500 KW A/C Resistive Load Bank	20,625.00	
01 22 23 00-0812	DAY	3,000 KW A/C Resistive Load Bank	2,310.00	
01 22 23 00-0813	WK	3,000 KW A/C Resistive Load Bank	7,500.00	
01 22 23 00-0814	MO	3,000 KW A/C Resistive Load Bank	22,500.00	
01 22 23 00-0815		Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0676)		
		Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0816	DAY	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	65.31	
		<i>For Half Day Usage, Deduct</i>	-20.41	
01 22 23 00-0817	WK	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	169.32	
01 22 23 00-0818	MO	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	477.71	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-19.11	
01 22 23 00-0819		Portable Distribution Panels For Generator Sets (01 22 23 00-0676)		
		Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0820	DAY	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	145.13	
		<i>For Half Day Usage, Deduct</i>	-45.35	
01 22 23 00-0821	WK	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	393.06	
01 22 23 00-0822	MO	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	1,100.55	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-44.02	
01 22 23 00-0823	DAY	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	118.52	
		<i>For Half Day Usage, Deduct</i>	-37.04	
01 22 23 00-0824	WK	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	308.40	
01 22 23 00-0825	MO	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	876.82	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-35.07	
01 22 23 00-0826	DAY	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	151.18	
		<i>For Half Day Usage, Deduct</i>	-47.24	
01 22 23 00-0827	WK	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	380.96	
01 22 23 00-0828	MO	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	1,034.04	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-41.36	
01 22 23 00-0829		Fuel Reimbursement For Generators (01 22 23 00-0676)		
01 22 23 00-0830	EA	Fuel Reimbursement For Generators	1.00	
		Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0831		Generator Accessories (01 22 23 00-0676)		
		Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0832		Step Down Transformer (01 22 23 00-0831)		
01 22 23 00-0833	WK	75 KVA, 480-208 Volt, Step Down Transformer	356.77	



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01 22 23 00-0834 MO 75 KVA, 480-208 Volt, Step Down Transformer For >6 Months (>26 Weeks), Deduct	997.76 -39.91	
01 22 23 00-0835 WK 150 KVA, 480-208 Volt, Step Down Transformer	572.05	
01 22 23 00-0836 MO 150 KVA, 480-208 Volt, Step Down Transformer For >6 Months (>26 Weeks), Deduct	1,714.93 -68.60	
01 22 23 00-0837 WK 225 KVA, 480-208 Volt, Step Down Transformer	761.92	
01 22 23 00-0838 MO 225 KVA, 480-208 Volt, Step Down Transformer For >6 Months (>26 Weeks), Deduct	2,285.77 -91.43	
01 22 23 00-0839 WK 500 KVA, 480-208 Volt, Step Down Transformer	907.05	
01 22 23 00-0840 MO 500 KVA, 480-208 Volt, Step Down Transformer For >6 Months (>26 Weeks), Deduct	2,721.15 -108.85	
01 22 23 00-0841 WK 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	1,354.53	
01 22 23 00-0842 MO 1,000 KVA, 4,160/480 Volt, Step Down Transformer..... For >6 Months (>26 Weeks), Deduct	4,045.44 -161.82	
01 22 23 00-0843 WK 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	2,201.11	
01 22 23 00-0844 MO 1,500 KVA, 4,160/480 Volt, Step Down Transformer..... For >6 Months (>26 Weeks), Deduct	6,597.28 -263.89	
01 22 23 00-0845 WK 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	2,539.74	
01 22 23 00-0846 MO 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	7,619.22 -304.77	
01 22 23 00-0847 Portable Panel (01 22 23 00-0831)		
01 22 23 00-0848 WK 100 Amperes, Portable Panel.....	284.21	
01 22 23 00-0849 MO 100 Amperes, Portable Panel..... For >6 Months (>26 Weeks), Deduct	725.64 -29.03	
01 22 23 00-0850 WK 200 Amperes, Portable Panel.....	339.84	
01 22 23 00-0851 MO 200 Amperes, Portable Panel..... For >6 Months (>26 Weeks), Deduct	907.05 -36.28	
01 22 23 00-0852 WK 400 Amperes, Portable Panel.....	362.82	
01 22 23 00-0853 MO 400 Amperes, Portable Panel..... For >6 Months (>26 Weeks), Deduct	1,088.46 -43.54	
01 22 23 00-0854 Portable Fusible Disconnect (01 22 23 00-0831)		
01 22 23 00-0855 WK 100 - 200 Amperes, Portable Fusible Disconnect.....	126.99	
01 22 23 00-0856 MO 100 - 200 Amperes, Portable Fusible Disconnect..... For >6 Months (>26 Weeks), Deduct	380.96 -15.24	
01 22 23 00-0857 WK 300 - 400 Amperes, Portable Fusible Disconnect.....	253.97	
01 22 23 00-0858 MO 300 - 400 Amperes, Portable Fusible Disconnect..... For >6 Months (>26 Weeks), Deduct	761.92 -30.48	
01 22 23 00-0859 Portable Transfer Switch (01 22 23 00-0831)		
01 22 23 00-0860 WK 100 Amperes, 480 Volt, Portable Transfer Switch	380.96	
01 22 23 00-0861 MO 100 Amperes, 480 Volt, Portable Transfer Switch	1,142.88	
For >6 Months (>26 Weeks), Deduct	-45.72	
01 22 23 00-0862 WK 200 Amperes, 480 Volt, Portable Transfer Switch	507.95	
01 22 23 00-0863 MO 200 Amperes, 480 Volt, Portable Transfer Switch	1,523.84	
For >6 Months (>26 Weeks), Deduct	-60.95	
01 22 23 00-0864 WK 400 Amperes, 480 Volt, Portable Transfer Switch	634.94	
01 22 23 00-0865 MO 400 Amperes, 480 Volt, Portable Transfer Switch	1,904.80	
For >6 Months (>26 Weeks), Deduct	-76.19	
01 22 23 00-0866 Welding Machines (01 22 23 00-0861)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0867 CC/CV Inverter Welder (01 22 23 00-0866)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0829 for reimbursable fuel fees.		
01 22 23 00-0868 DAY 250 Amperes, CC Inverter Welder.....	44.92	
For Half Day Usage, Deduct	-14.04	
01 22 23 00-0869 WK 250 Amperes, CC Inverter Welder.....	97.86	
01 22 23 00-0870 MO 250 Amperes, CC Inverter Welder..... For >6 Months (>26 Weeks), Deduct	296.80 -11.87	
01 22 23 00-0871 DAY 300 Amperes, CC/CV Inverter Welder.....	51.34	
For Half Day Usage, Deduct	-16.04	
01 22 23 00-0872 WK 300 Amperes, CC/CV Inverter Welder.....	136.37	
01 22 23 00-0873 MO 300 Amperes, CC/CV Inverter Welder..... For >6 Months (>26 Weeks), Deduct	360.97 -14.44	
01 22 23 00-0874 DAY 350 Amperes, CC/CV Inverter Welder.....	52.94	
For Half Day Usage, Deduct	-16.54	
01 22 23 00-0875 WK 350 Amperes, CC/CV Inverter Welder.....	139.57	
01 22 23 00-0876 MO 350 Amperes, CC/CV Inverter Welder..... For >6 Months (>26 Weeks), Deduct	393.05 -15.72	
01 22 23 00-0877 MIG Welder (01 22 23 00-0866)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0829 for reimbursable fuel fees.		
01 22 23 00-0878 DAY 115 Volt MIG Welder	77.01	
For Half Day Usage, Deduct	-24.07	
01 22 23 00-0879 WK 115 Volt MIG Welder	200.54	

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01 22 23 00-0880 MO 115 Volt MIG Welder.....	545.46	
For >6 Months (>26 Weeks), Deduct	-21.82	
01 22 23 00-0881 Diesel Powered Towable Welding Machines (01 22 23 00-0886)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0882 DAY 250 To 299 Amperes, Diesel Powered Towable Welding Machine	144.39	
For Half Day Usage, Deduct	-45.12	
01 22 23 00-0883 WK 250 To 299 Amperes, Diesel Powered Towable Welding Machine	352.95	
01 22 23 00-0884 MO 250 To 299 Amperes, Diesel Powered Towable Welding Machine	842.26	
For >6 Months (>26 Weeks), Deduct	-33.69	
01 22 23 00-0885 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine	192.52	
For Half Day Usage, Deduct	-60.16	
01 22 23 00-0886 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine	377.01	
01 22 23 00-0887 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine	880.76	
For >6 Months (>26 Weeks), Deduct	-35.23	
01 22 23 00-0888 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine	200.54	
For Half Day Usage, Deduct	-62.67	
01 22 23 00-0889 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine	401.08	
01 22 23 00-0890 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine	978.62	
For >6 Months (>26 Weeks), Deduct	-39.14	
01 22 23 00-0891 General Equipment (01 22 23)		
01 22 23 00-0892 Jacks And Bracing (01 22 23 00-0891)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0893 Manual Hydraulic Jacks (01 22 23 00-0892)		
01 22 23 00-0894 DAY 12 Ton Manual Hydraulic Bottle Jack.....	1.67	
For Half Day Usage, Deduct	-0.52	
01 22 23 00-0895 WK 12 Ton Manual Hydraulic Bottle Jack.....	7.93	
01 22 23 00-0896 MO 12 Ton Manual Hydraulic Bottle Jack.....	28.50	
For >6 Months (>26 Weeks), Deduct	-1.14	
01 22 23 00-0897 DAY 20 Ton Manual Hydraulic Bottle Jack.....	2.92	
For Half Day Usage, Deduct	-0.91	
01 22 23 00-0898 WK 20 Ton Manual Hydraulic Bottle Jack.....	9.18	
01 22 23 00-0899 MO 20 Ton Manual Hydraulic Bottle Jack.....	34.76	
For >6 Months (>26 Weeks), Deduct	-1.39	
01 22 23 00-0900 DAY 50 Ton Manual Hydraulic Bottle Jack.....	10.43	
For Half Day Usage, Deduct	-3.26	
01 22 23 00-0901 WK 50 Ton Manual Hydraulic Bottle Jack.....	40.49	
01 22 23 00-0902 MO 50 Ton Manual Hydraulic Bottle Jack.....	145.66	
For >6 Months (>26 Weeks), Deduct	-5.83	
01 22 23 00-0903 DAY 100 Ton Manual Hydraulic Bottle Jack.....	14.61	
For Half Day Usage, Deduct	-4.57	
01 22 23 00-0904 WK 100 Ton Manual Hydraulic Bottle Jack.....	58.43	
01 22 23 00-0905 MO 100 Ton Manual Hydraulic Bottle Jack.....	210.46	
For >6 Months (>26 Weeks), Deduct	-8.42	
01 22 23 00-0906 Manual Screw Jacks (01 22 23 00-0892)		
01 22 23 00-0907 DAY 10 To 20 Ton Manual Screw Jack	19.16	
For Half Day Usage, Deduct	-5.99	
01 22 23 00-0908 WK 10 To 20 Ton Manual Screw Jack	50.71	
01 22 23 00-0909 MO 10 To 20 Ton Manual Screw Jack	152.12	
For >6 Months (>26 Weeks), Deduct	-6.08	
01 22 23 00-0910 Shores/Braces (01 22 23 00-0892)		
01 22 23 00-0911 MO Up To 5' Height, Adjustable Tubular Steel Shoring.....	15.78	
01 22 23 00-0912 MO Up To 10' Height, Adjustable Tubular Steel Shoring.....	20.28	
01 22 23 00-0913 MO >10' To 16' Height, Adjustable Tubular Steel Shoring.....	27.04	
01 22 23 00-0914 MO Up To 10' Height, Adjustable Wood Shoring.....	6.37	
01 22 23 00-0915 MO >10' To 16' Height, Adjustable Wood Shoring.....	8.49	
01 22 23 00-0916 EA Erect And Strip Shores To 10'.....	12.01	
For >20 To 50, Deduct	-1.80	
For >50 To 100, Deduct	-4.20	
For >100, Deduct	-6.61	
01 22 23 00-0917 EA Erect And Strip Shores To 13'.....	14.41	
For >20 To 50, Deduct	-2.16	
For >50 To 100, Deduct	-5.04	
For >100, Deduct	-7.93	
01 22 23 00-0918 EA Erect And Strip Shores To 16'.....	16.81	
For >20 To 50, Deduct	-2.52	
For >50 To 100, Deduct	-5.88	
For >100, Deduct	-9.25	
01 22 23 00-0919 Pressure Washers (01 22 23 00-0891)		
Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0920 DAY 2,000 PSI Pressure Washer With Full-Time Operator	871.19	
For Equipment Without Operator, Deduct	-762.33	
For Half Day Usage, Deduct	-415.18	



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01 22 23 00-0921 WK 2,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct	4,087.99 -3,811.66	
01 22 23 00-0922 MO 2,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	17,220.55 -16,517.18 -28.13	
01 22 23 00-0923 DAY 2,500 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	871.19 -762.33 -415.18	
01 22 23 00-0924 WK 2,500 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct	4,087.99 -3,811.66	
01 22 23 00-0925 MO 2,500 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	17,220.55 -16,517.18 -28.13	
01 22 23 00-0926 DAY 3,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	871.19 -762.33 -415.18	
01 22 23 00-0927 WK 3,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct	4,087.99 -3,811.66	
01 22 23 00-0928 MO 3,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	17,220.55 -16,517.18 -28.13	
01 22 23 00-0929 DAY 3,500 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	879.56 -762.33 -417.80	
01 22 23 00-0930 WK 3,500 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct	4,113.11 -3,811.66	
01 22 23 00-0931 MO 3,500 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	17,287.54 -16,517.18 -30.81	
01 22 23 00-0932 DAY 4,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	913.05 -762.33 -428.27	
01 22 23 00-0933 WK 4,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct	4,221.96 -3,811.66	
01 22 23 00-0934 MO 4,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	17,664.35 -16,517.18 -45.89	
01 22 23 00-0935 DAY 5,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	929.80 -762.33 -433.50	
01 22 23 00-0936 WK 5,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct	4,263.83 -3,811.66	
01 22 23 00-0937 MO 5,000 PSI Pressure Washer With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	17,789.95 -16,517.18 -50.91	
01 22 23 00-0938 Confined Space Entry Equipment (01 22 23 00-0891)		
Note: Includes delivery to job site, set-up, and pick-up when complete.		
01 22 23 00-0939 DAY Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'. For Half Day Usage, Deduct	43.98 -13.74	
01 22 23 00-0940 WK Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	131.95	
01 22 23 00-0941 MO Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'. For >6 Months (>26 Weeks), Deduct	393.75 -15.75	
01 22 23 00-0942 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly For Half Day Usage, Deduct	67.81 -21.19	
01 22 23 00-0943 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	203.44	
01 22 23 00-0944 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly For >6 Months (>26 Weeks), Deduct	610.31 -24.41	
01 22 23 00-0945 DAY Confined Space Air Monitor Personnel..... Note: Per person day. For Half Day Usage, Deduct	762.33 -381.17	
01 22 23 00-0946 Mowers (01 22 23 00-0891)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0947 DAY 21" Walk Behind Lawn Mower For Half Day Usage, Deduct	99.20 -31.00	
01 22 23 00-0948 WK 21" Walk Behind Lawn Mower	285.19	
01 22 23 00-0949 MO 21" Walk Behind Lawn Mower For >6 Months (>26 Weeks), Deduct	582.78 -23.31	
01 22 23 00-0950 DAY 32" Walk Behind Lawn Mower For Half Day Usage, Deduct	124.00 -38.75	
01 22 23 00-0951 WK 32" Walk Behind Lawn Mower	297.59	
01 22 23 00-0952 MO 32" Walk Behind Lawn Mower For >6 Months (>26 Weeks), Deduct	619.98 -24.80	
01 22 23 00-0953 DAY 36" To 48" Walk Behind Deck Mower For Half Day Usage, Deduct	223.19 -69.75	
01 22 23 00-0954 WK 36" To 48" Walk Behind Deck Mower	619.98	
01 22 23 00-0955 MO 36" To 48" Walk Behind Deck Mower For >6 Months (>26 Weeks), Deduct	1,797.93 -71.92	

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01 22 23 00-0956 DAY 61" To 72" Walk Behind Deck Mower <i>For Half Day Usage, Deduct</i>	223.19 -69.75	
01 22 23 00-0957 WK 61" To 72" Walk Behind Deck Mower	619.98	
01 22 23 00-0958 MO 61" To 72" Walk Behind Deck Mower <i>For >6 Months (>26 Weeks), Deduct</i>	1,797.93 -71.92	
01 22 23 00-0959 Trailer Mounted Brush Chipper (01 22 23 00-0891) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0960 DAY 4" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup <i>For Half Day Usage, Deduct</i>	192.25 -60.08	
01 22 23 00-0961 WK 4" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	459.72	
01 22 23 00-0962 MO 4" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup <i>For >6 Months (>26 Weeks), Deduct</i>	1,412.59 -56.50	
01 22 23 00-0963 DAY 6" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup <i>For Half Day Usage, Deduct</i>	250.76 -78.36	
01 22 23 00-0964 WK 6" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	565.03	
01 22 23 00-0965 MO 6" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup <i>For >6 Months (>26 Weeks), Deduct</i>	1,504.53 -60.18	
01 22 23 00-0966 DAY 9" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup <i>For Half Day Usage, Deduct</i>	468.08 -146.28	
01 22 23 00-0967 WK 9" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	1,053.17	
01 22 23 00-0968 MO 9" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup <i>For >6 Months (>26 Weeks), Deduct</i>	2,808.46 -112.34	
01 22 23 00-0969 DAY 12" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup <i>For Half Day Usage, Deduct</i>	506.52 -158.29	
01 22 23 00-0970 WK 12" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup	1,139.67	
01 22 23 00-0971 MO 12" Capacity, Trailer Mounted Brush Chipper For Emergency Cleanup <i>For >6 Months (>26 Weeks), Deduct</i>	3,039.12 -121.56	
01 22 23 00-0972 Material Handling Equipment (01 22 23)		
01 22 23 00-0973 Truck Mounted Hydraulic Cranes (01 22 23 00-0972) Note: Includes full-time operator, delivery, set-up, rigging, all necessary counter weights and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0974 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,598.51 -1,095.75	
<i>For Half Day Usage, Deduct</i>	-704.99	
01 22 23 00-0975 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,001.80 -5,478.74	
01 22 23 00-0976 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	28,325.20 -23,741.23	
<i>For >6 Months (>26 Weeks), Deduct</i>	-183.36	
01 22 23 00-0977 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,731.59 -1,095.75	
<i>For Half Day Usage, Deduct</i>	-746.58	
01 22 23 00-0978 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,397.35 -5,478.74	
01 22 23 00-0979 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,508.16 -23,741.23	
<i>For >6 Months (>26 Weeks), Deduct</i>	-230.68	
01 22 23 00-0980 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,864.67 -1,095.75	
<i>For Half Day Usage, Deduct</i>	-788.16	
01 22 23 00-0981 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,792.91 -5,478.74	
01 22 23 00-0982 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	30,691.12 -23,741.23	
<i>For >6 Months (>26 Weeks), Deduct</i>	-278.00	
01 22 23 00-0983 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,042.12 -1,095.75	
<i>For Half Day Usage, Deduct</i>	-843.62	
01 22 23 00-0984 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,325.24 -5,478.74	
01 22 23 00-0985 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	32,280.72 -23,741.23	
<i>For >6 Months (>26 Weeks), Deduct</i>	-341.58	
01 22 23 00-0986 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,204.77 -1,095.75	
<i>For Half Day Usage, Deduct</i>	-894.44	
01 22 23 00-0987 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,426.87 -5,478.74	
01 22 23 00-0988 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	35,582.66 -23,741.23	
<i>For >6 Months (>26 Weeks), Deduct</i>	-473.66	
01 22 23 00-0989 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,589.24 -1,095.75	
<i>For Half Day Usage, Deduct</i>	-1,014.59	
01 22 23 00-0990 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,802.06 -5,478.74	
01 22 23 00-0991 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,711.19 -23,741.23	
<i>For >6 Months (>26 Weeks), Deduct</i>	-638.80	



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01 22 23 00-0992	DAY	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,833.22	
		For Equipment Without Operator, Deduct	-1,095.75	
		For Half Day Usage, Deduct	-1,090.83	
01 22 23 00-0993	WK	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,659.71	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-0994	MO	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	42,290.04	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-741.95	
01 22 23 00-0995	DAY	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,025.45	
		For Equipment Without Operator, Deduct	-1,095.75	
		For Half Day Usage, Deduct	-1,150.91	
01 22 23 00-0996	WK	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	12,354.70	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-0997	MO	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	44,372.05	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-825.23	
01 22 23 00-0998	DAY	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,217.68	
		For Equipment Without Operator, Deduct	-1,095.75	
		For Half Day Usage, Deduct	-1,210.98	
01 22 23 00-0999	WK	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	13,049.68	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1000	MO	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	46,454.06	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-908.51	
01 22 23 00-1001	DAY	85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,343.37	
		For Equipment Without Operator, Deduct	-1,095.75	
		For Half Day Usage, Deduct	-1,250.26	
01 22 23 00-1002	WK	85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	13,478.51	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1003	MO	85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	47,755.32	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-960.56	
01 22 23 00-1004	DAY	100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,513.42	
		For Equipment Without Operator, Deduct	-1,095.75	
		For Half Day Usage, Deduct	-1,303.40	
01 22 23 00-1005	WK	100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	14,114.35	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1006	MO	100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	49,648.05	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-1,036.27	
01 22 23 00-1007	DAY	120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,060.54	
		For Equipment Without Operator, Deduct	-1,095.75	
		For Half Day Usage, Deduct	-1,474.37	
01 22 23 00-1008	WK	120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	15,855.52	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1009	MO	120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	54,871.56	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-1,245.21	
01 22 23 00-1010	DAY	140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,437.61	
		For Equipment Without Operator, Deduct	-1,095.75	
		For Half Day Usage, Deduct	-1,592.21	
01 22 23 00-1011	WK	140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	17,175.26	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1012	MO	140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	58,830.78	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-1,403.58	
01 22 23 00-1013	DAY	175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,117.81	
		For Equipment Without Operator, Deduct	-1,095.75	
		For Half Day Usage, Deduct	-1,804.77	
01 22 23 00-1014	WK	175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	19,555.96	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1015	MO	175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	65,972.90	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-1,689.27	
01 22 23 00-1016	DAY	200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,591.00	
		For Equipment Without Operator, Deduct	-1,095.75	
		For Half Day Usage, Deduct	-1,952.64	
01 22 23 00-1017	WK	200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	21,212.11	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1018	MO	200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	70,941.33	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-1,888.00	
01 22 23 00-1019		Cable Controlled Lattice Boom, Mechanical Cranes (01 22 23 00-0972)		
		Note: Includes full-time operator and counterweights. Excludes delivery, set-up, and removal. See CSI section 01		
		71 13 00-0004 for lattice crane delivery.		
01 22 23 00-1020	DAY	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	2,870.19	
		For Equipment Without Operator, Deduct	-1,095.75	
01 22 23 00-1021	WK	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	11,807.58	
		For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1022	MO	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator	42,727.74	
		For Equipment Without Operator, Deduct	-23,741.23	
		For >6 Months (>26 Weeks), Deduct	-759.46	

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01 22 23 00-1023 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	4,237.99	
For Equipment Without Operator, Deduct	-1,095.75	
01 22 23 00-1024 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	14,084.77	
For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1025 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	49,559.33	
For Equipment Without Operator, Deduct	-23,741.23	
For >6 Months (>26 Weeks), Deduct	-1,032.72	
01 22 23 00-1026 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	4,459.79	
For Equipment Without Operator, Deduct	-1,095.75	
01 22 23 00-1027 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	15,703.95	
For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1028 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	54,415.38	
For Equipment Without Operator, Deduct	-23,741.23	
For >6 Months (>26 Weeks), Deduct	-1,226.97	
01 22 23 00-1029 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	4,903.40	
For Equipment Without Operator, Deduct	-1,095.75	
01 22 23 00-1030 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	17,323.13	
For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1031 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	59,265.52	
For Equipment Without Operator, Deduct	-23,741.23	
For >6 Months (>26 Weeks), Deduct	-1,420.97	
01 22 23 00-1032 DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	5,114.12	
For Equipment Without Operator, Deduct	-1,095.75	
01 22 23 00-1033 WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	18,942.30	
For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1034 MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	64,127.48	
For Equipment Without Operator, Deduct	-23,741.23	
For >6 Months (>26 Weeks), Deduct	-1,615.45	
01 22 23 00-1035 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	5,324.83	
For Equipment Without Operator, Deduct	-1,095.75	
01 22 23 00-1036 WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	20,561.48	
For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1037 MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	68,989.45	
For Equipment Without Operator, Deduct	-23,741.23	
For >6 Months (>26 Weeks), Deduct	-1,809.93	
01 22 23 00-1038 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	6,019.82	
For Equipment Without Operator, Deduct	-1,095.75	
01 22 23 00-1039 WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	23,053.09	
For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1040 MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	76,453.93	
For Equipment Without Operator, Deduct	-23,741.23	
For >6 Months (>26 Weeks), Deduct	-2,108.51	
01 22 23 00-1041 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	10,293.26	
For Equipment Without Operator, Deduct	-1,095.75	
01 22 23 00-1042 WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	38,283.70	
For Equipment Without Operator, Deduct	-5,478.74	
01 22 23 00-1043 MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	122,163.50	
For Equipment Without Operator, Deduct	-23,741.23	
For >6 Months (>26 Weeks), Deduct	-3,936.89	
01 22 23 00-1044 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0972)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-1045 DAY 5,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,614.00	
For Equipment Without Operator, Deduct	-1,027.85	
For Half Day Usage, Deduct	-697.10	
01 22 23 00-1046 WK 5,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,573.77	
For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-1047 MO 5,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	25,355.10	
For Equipment Without Operator, Deduct	-22,270.10	
For >6 Months (>26 Weeks), Deduct	-123.40	
01 22 23 00-1048 DAY 6,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,675.70	
For Equipment Without Operator, Deduct	-1,027.85	
For Half Day Usage, Deduct	-716.38	
01 22 23 00-1049 WK 6,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,712.60	
For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-1050 MO 6,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	25,663.60	
For Equipment Without Operator, Deduct	-22,270.10	
For >6 Months (>26 Weeks), Deduct	-135.74	
01 22 23 00-1051 DAY 8,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,660.27	
For Equipment Without Operator, Deduct	-1,027.85	
For Half Day Usage, Deduct	-711.56	
01 22 23 00-1052 WK 8,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,782.01	
For Equipment Without Operator, Deduct	-5,139.25	
01 22 23 00-1053 MO 8,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	26,126.35	
For Equipment Without Operator, Deduct	-22,270.10	
For >6 Months (>26 Weeks), Deduct	-154.25	



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01 22 23 00-1054	DAY	10,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,837.66		
		For Equipment Without Operator, Deduct	-1,027.85		
		For Half Day Usage, Deduct	-766.99		
01 22 23 00-1055	WK	10,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	7,244.76		
		For Equipment Without Operator, Deduct	-5,139.25		
01 22 23 00-1056	MO	10,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	27,206.10		
		For Equipment Without Operator, Deduct	-22,270.10		
		For >6 Months (>26 Weeks), Deduct	-197.44		
01 22 23 00-1057 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0972)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-1058	DAY	5,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,408.85		
		For Equipment Without Operator, Deduct	-1,027.85		
		For Propane Instead Of Gas Or Diesel, Add	76.20		
		For Half Day Usage, Deduct	-632.99		
01 22 23 00-1059	WK	5,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,179.67		
		For Equipment Without Operator, Deduct	-5,139.25		
		For Propane Instead Of Gas Or Diesel, Add	208.08		
01 22 23 00-1060	MO	5,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	24,651.33		
		For Equipment Without Operator, Deduct	-22,270.10		
		For Propane Instead Of Gas Or Diesel, Add	476.25		
		For >6 Months (>26 Weeks), Deduct	-95.25		
01 22 23 00-1061	DAY	6,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,428.90		
		For Equipment Without Operator, Deduct	-1,027.85		
		For Propane Instead Of Gas Or Diesel, Add	80.21		
		For Half Day Usage, Deduct	-639.25		
01 22 23 00-1062	WK	6,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,234.43		
		For Equipment Without Operator, Deduct	-5,139.25		
		For Propane Instead Of Gas Or Diesel, Add	219.04		
01 22 23 00-1063	MO	6,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	24,776.66		
		For Equipment Without Operator, Deduct	-22,270.10		
		For Propane Instead Of Gas Or Diesel, Add	501.31		
		For >6 Months (>26 Weeks), Deduct	-100.26		
01 22 23 00-1064	DAY	8,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,536.87		
		For Equipment Without Operator, Deduct	-1,027.85		
		For Propane Instead Of Gas Or Diesel, Add	101.80		
		For Half Day Usage, Deduct	-672.99		
01 22 23 00-1065	WK	8,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,535.21		
		For Equipment Without Operator, Deduct	-5,139.25		
		For Propane Instead Of Gas Or Diesel, Add	279.19		
01 22 23 00-1066	MO	8,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	25,470.79		
		For Equipment Without Operator, Deduct	-22,270.10		
		For Propane Instead Of Gas Or Diesel, Add	640.14		
		For >6 Months (>26 Weeks), Deduct	-128.03		
01 22 23 00-1067	DAY	10,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,596.34		
		For Equipment Without Operator, Deduct	-1,027.85		
		For Propane Instead Of Gas Or Diesel, Add	113.70		
		For Half Day Usage, Deduct	-691.58		
01 22 23 00-1068	WK	10,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,509.45		
		For Equipment Without Operator, Deduct	-5,139.25		
		For Propane Instead Of Gas Or Diesel, Add	274.04		
01 22 23 00-1069	MO	10,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	25,681.03		
		For Equipment Without Operator, Deduct	-22,270.10		
		For Propane Instead Of Gas Or Diesel, Add	682.19		
		For >6 Months (>26 Weeks), Deduct	-136.44		
01 22 23 00-1070 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0972)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-1071	DAY	5,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,351.77		
		For Equipment Without Operator, Deduct	-1,027.85		
		For Propane Instead Of Gas Or Diesel, Add	64.78		
		For Half Day Usage, Deduct	-615.15		
01 22 23 00-1072	WK	5,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,879.65		
		For Equipment Without Operator, Deduct	-5,139.25		
		For Propane Instead Of Gas Or Diesel, Add	148.08		
01 22 23 00-1073	MO	5,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	24,043.98		
		For Equipment Without Operator, Deduct	-22,270.10		
		For Propane Instead Of Gas Or Diesel, Add	354.78		
		For >6 Months (>26 Weeks), Deduct	-70.96		
01 22 23 00-1074	DAY	6,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,359.49		
		For Equipment Without Operator, Deduct	-1,027.85		
		For Propane Instead Of Gas Or Diesel, Add	66.33		
		For Half Day Usage, Deduct	-617.56		
01 22 23 00-1075	WK	6,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,902.79		
		For Equipment Without Operator, Deduct	-5,139.25		
		For Propane Instead Of Gas Or Diesel, Add	152.71		
01 22 23 00-1076	MO	6,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	24,097.96		
		For Equipment Without Operator, Deduct	-22,270.10		
		For Propane Instead Of Gas Or Diesel, Add	365.57		
		For >6 Months (>26 Weeks), Deduct	-73.11		
01 22 23 00-1077	DAY	8,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,521.45		
		For Equipment Without Operator, Deduct	-1,027.85		
		For Propane Instead Of Gas Or Diesel, Add	98.72		
		For Half Day Usage, Deduct	-668.18		

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01 22 23 00-1078 WK 8,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator 6,257.56 For Equipment Without Operator, Deduct-5,139.25 For Propane Instead Of Gas Or Diesel, Add 223.66		
01 22 23 00-1079 MO 8,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator 24,969.48 For Equipment Without Operator, Deduct .....-22,270.10 For Propane Instead Of Gas Or Diesel, Add 539.88 For >6 Months (>26 Weeks), Deduct .....-107.98		
01 22 23 00-1080 DAY 12,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator 1,536.87 For Equipment Without Operator, Deduct .....-1,027.85 For Propane Instead Of Gas Or Diesel, Add 101.80 For Half Day Usage, Deduct .....-672.99		
01 22 23 00-1081 WK 12,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator 6,388.67 For Equipment Without Operator, Deduct .....-5,139.25 For Propane Instead Of Gas Or Diesel, Add 249.88		
01 22 23 00-1082 MO 12,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator 25,432.22 For Equipment Without Operator, Deduct .....-22,270.10 For Propane Instead Of Gas Or Diesel, Add 632.42 For >6 Months (>26 Weeks), Deduct .....-126.48		
01 22 23 00-1083 DAY 15,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator 1,675.70 For Equipment Without Operator, Deduct .....-1,027.85 For Propane Instead Of Gas Or Diesel, Add 129.57 For Half Day Usage, Deduct .....-716.38		
01 22 23 00-1084 WK 15,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator 6,612.34 For Equipment Without Operator, Deduct .....-5,139.25 For Propane Instead Of Gas Or Diesel, Add 294.62		
01 22 23 00-1085 MO 15,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator 25,817.85 For Equipment Without Operator, Deduct .....-22,270.10 For Propane Instead Of Gas Or Diesel, Add 709.55 For >6 Months (>26 Weeks), Deduct .....-141.91		
01 22 23 00-1086 Chain Hoists (01 22 23 00-0972) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1087 DAY 1 Ton, 20' Lift, Manual Chain Hoist 12.52 For Half Day Usage, Deduct .....-3.91		
01 22 23 00-1088 WK 1 Ton, 20' Lift, Manual Chain Hoist 32.55		
01 22 23 00-1089 MO 1 Ton, 20' Lift, Manual Chain Hoist 96.40 For >6 Months (>26 Weeks), Deduct .....-3.86		
01 22 23 00-1090 DAY 3 Ton, 20' Lift, Manual Chain Hoist 35.06 For Half Day Usage, Deduct .....-10.96		
01 22 23 00-1091 WK 3 Ton, 20' Lift, Manual Chain Hoist 82.63		
01 22 23 00-1092 MO 3 Ton, 20' Lift, Manual Chain Hoist 231.62 For >6 Months (>26 Weeks), Deduct .....-9.26		
01 22 23 00-1093 DAY 5 Ton, 20' Lift, Manual Chain Hoist 45.07 For Half Day Usage, Deduct .....-14.08		
01 22 23 00-1094 WK 5 Ton, 20' Lift, Manual Chain Hoist 121.44		
01 22 23 00-1095 MO 5 Ton, 20' Lift, Manual Chain Hoist 338.04 For >6 Months (>26 Weeks), Deduct .....-13.52		
01 22 23 00-1096 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist 88.89 For Half Day Usage, Deduct .....-27.78		
01 22 23 00-1097 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist 231.62		
01 22 23 00-1098 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist 626.00 For >6 Months (>26 Weeks), Deduct .....-25.04		
01 22 23 00-1099 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist 90.14 For Half Day Usage, Deduct .....-28.17		
01 22 23 00-1100 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist 241.01		
01 22 23 00-1101 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist 657.30 For >6 Months (>26 Weeks), Deduct .....-26.29		
01 22 23 00-1102 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist 92.65 For Half Day Usage, Deduct .....-28.95		
01 22 23 00-1103 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist 259.79		
01 22 23 00-1104 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist 719.90 For >6 Months (>26 Weeks), Deduct .....-28.80		
01 22 23 00-1105 Roof Swing Hoist (01 22 23 00-0972) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1106 DAY Up To 400 Lb., Manual Swing Roof Hoist 106.00 For Half Day Usage, Deduct .....-33.13		
01 22 23 00-1107 WK Up To 400 Lb., Manual Swing Roof Hoist 371.02		
01 22 23 00-1108 MO Up To 400 Lb., Manual Swing Roof Hoist 1,272.06 For >6 Months (>26 Weeks), Deduct .....-50.88		
01 22 23 00-1109 Truck Mounted Digger Derrick (01 22 23 00-0972) Note: Includes full-time operator, delivery, set-up, and removal time in rental period. Lifting capacity is reduced.		
01 22 23 00-1110 DAY Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator 1,795.74 Note: Includes lifting boom, grapple arm and auger drill. For Equipment Without Operator, Deduct-1,095.75 For Half Day Usage, Deduct-766.62		



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01 22 23 00-1111	WK		Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i>	7,578.70 -5,478.74	
01 22 23 00-1112	MO		Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	29,341.12 -23,741.23 -224.00	
01 22 23 00-1113	DAY		Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,939.61 -1,095.75 -811.58	
01 22 23 00-1114	WK		Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i>	8,010.33 -5,478.74	
01 22 23 00-1115	MO		Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	30,492.13 -23,741.23 -270.04	
01 22 23 00-1116	DAY		Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	2,828.68 -1,095.75 -1,089.42	
01 22 23 00-1117	WK		Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i>	10,677.54 -5,478.74	
01 22 23 00-1118	MO		Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator Note: Includes lifting boom, grapple arm and auger drill. <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	37,604.71 -23,741.23 -554.54	
01 22 23 00-1119			Pumping Equipment (01 22 23)		
01 22 23 00-1120			Gas Powered Portable Centrifugal Pumps (01 22 23 00-1119) Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1144 for larger diameter pumps.		
01 22 23 00-1121	DAY		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	80.88 32.35 64.70	
01 22 23 00-1122	WK		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	181.97 72.79 145.58	
01 22 23 00-1123	MO		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	485.26 194.10 388.21 -19.41	
01 22 23 00-1124	DAY		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	97.05 38.82 77.64	
01 22 23 00-1125	WK		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	218.37 87.35 174.70	
01 22 23 00-1126	MO		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	582.31 232.92 465.85 -23.29	
01 22 23 00-1127			Gas Powered Portable Diaphragm Pumps (01 22 23 00-1119) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1128	DAY		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	93.01 37.20 74.41	
01 22 23 00-1129	WK		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	262.85 105.14 210.28	
01 22 23 00-1130	MO		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	667.23 266.89 533.78 -26.69	
01 22 23 00-1131	DAY		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	113.23 45.29 90.58	
01 22 23 00-1132	WK		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	303.28 121.31 242.62	

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01 22 23 00-1133 MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	859.31	
For >160 To 320 Hours Usage Per Month, Add	343.72	
For >320 Hours Usage Per Month, Add	687.45	
For >6 Months (>26 Weeks), Deduct	-34.37	
01 22 23 00-1134 Gas Powered Portable Trash Pumps (01 22 23 00-1119)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1135 DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	117.27	
For >8 To 16 Hours Usage Per Day, Add	46.91	
For >16 To 24 Hours Usage Per Day, Add	93.82	
01 22 23 00-1136 WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	242.63	
For >40 To 80 Hours Usage Per Week, Add	97.05	
For >80 Hours Usage Per Week, Add	194.10	
01 22 23 00-1137 MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	727.88	
For >160 To 320 Hours Usage Per Month, Add	291.15	
For >320 Hours Usage Per Month, Add	582.30	
For >6 Months (>26 Weeks), Deduct	-29.12	
01 22 23 00-1138 DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	117.27	
For >8 To 16 Hours Usage Per Day, Add	46.91	
For >16 To 24 Hours Usage Per Day, Add	93.82	
01 22 23 00-1139 WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	313.39	
For >40 To 80 Hours Usage Per Week, Add	125.36	
For >80 Hours Usage Per Week, Add	250.71	
01 22 23 00-1140 MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	859.31	
For >160 To 320 Hours Usage Per Month, Add	343.72	
For >320 Hours Usage Per Month, Add	687.45	
For >6 Months (>26 Weeks), Deduct	-34.37	
01 22 23 00-1141 DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	186.01	
For >8 To 16 Hours Usage Per Day, Add	74.40	
For >16 To 24 Hours Usage Per Day, Add	148.81	
01 22 23 00-1142 WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	525.69	
For >40 To 80 Hours Usage Per Week, Add	210.28	
For >80 Hours Usage Per Week, Add	420.55	
01 22 23 00-1143 MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	1,526.53	
For >160 To 320 Hours Usage Per Month, Add	610.61	
For >320 Hours Usage Per Month, Add	1,221.22	
For >6 Months (>26 Weeks), Deduct	-61.06	
01 22 23 00-1144 Diesel Powered Portable Trash Pumps (01 22 23 00-1119)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1145 DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	363.94	
For >8 To 16 Hours Usage Per Day, Add	145.58	
For >16 To 24 Hours Usage Per Day, Add	291.15	
01 22 23 00-1146 WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	990.73	
For >40 To 80 Hours Usage Per Week, Add	396.29	
For >80 Hours Usage Per Week, Add	792.58	
01 22 23 00-1147 MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	4,316.76	
For >160 To 320 Hours Usage Per Month, Add	1,726.70	
For >320 Hours Usage Per Month, Add	3,453.41	
For >6 Months (>26 Weeks), Deduct	-172.67	
01 22 23 00-1148 DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	556.02	
For >8 To 16 Hours Usage Per Day, Add	222.41	
For >16 To 24 Hours Usage Per Day, Add	444.82	
01 22 23 00-1149 WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,455.77	
For >40 To 80 Hours Usage Per Week, Add	582.31	
For >80 Hours Usage Per Week, Add	1,164.62	
01 22 23 00-1150 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,871.94	
For >160 To 320 Hours Usage Per Month, Add	1,548.78	
For >320 Hours Usage Per Month, Add	3,097.55	
For >6 Months (>26 Weeks), Deduct	-154.88	
01 22 23 00-1151 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	756.19	
For >8 To 16 Hours Usage Per Day, Add	302.48	
For >16 To 24 Hours Usage Per Day, Add	604.95	
01 22 23 00-1152 WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	2,023.92	
For >40 To 80 Hours Usage Per Week, Add	809.57	
For >80 Hours Usage Per Week, Add	1,619.14	
01 22 23 00-1153 MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	5,414.65	
For >160 To 320 Hours Usage Per Month, Add	2,165.86	
For >320 Hours Usage Per Month, Add	4,331.72	
For >6 Months (>26 Weeks), Deduct	-216.59	
01 22 23 00-1154 DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	978.60	
For >8 To 16 Hours Usage Per Day, Add	391.44	
For >16 To 24 Hours Usage Per Day, Add	782.88	
01 22 23 00-1155 WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,499.07	
For >40 To 80 Hours Usage Per Week, Add	999.63	
For >80 Hours Usage Per Week, Add	1,999.26	
01 22 23 00-1156 MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	7,339.50	
For >160 To 320 Hours Usage Per Month, Add	2,935.80	
For >320 Hours Usage Per Month, Add	5,871.60	
For >6 Months (>26 Weeks), Deduct	-293.58	



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01 22 23 00-1157 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-1119)			
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1158	DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	519.63	
	For >8 To 16 Hours Usage Per Day, Add	207.85	
	For >16 To 24 Hours Usage Per Day, Add	415.70	
01 22 23 00-1159	WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,182.81	
	For >40 To 80 Hours Usage Per Week, Add	473.12	
	For >80 Hours Usage Per Week, Add	946.25	
01 22 23 00-1160	MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,687.95	
	For >160 To 320 Hours Usage Per Month, Add	1,475.18	
	For >320 Hours Usage Per Month, Add	2,950.36	
	For >6 Months (>26 Weeks), Deduct	-147.52	
01 22 23 00-1161	DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	636.90	
	For >8 To 16 Hours Usage Per Day, Add	254.76	
	For >16 To 24 Hours Usage Per Day, Add	509.52	
01 22 23 00-1162	WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,587.19	
	For >40 To 80 Hours Usage Per Week, Add	634.88	
	For >80 Hours Usage Per Week, Add	1,269.75	
01 22 23 00-1163	MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	4,316.76	
	For >160 To 320 Hours Usage Per Month, Add	1,726.70	
	For >320 Hours Usage Per Month, Add	3,453.41	
	For >6 Months (>26 Weeks), Deduct	-172.67	
01 22 23 00-1164	DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	768.32	
	For >8 To 16 Hours Usage Per Day, Add	307.33	
	For >16 To 24 Hours Usage Per Day, Add	614.66	
01 22 23 00-1165	WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	2,272.62	
	For >40 To 80 Hours Usage Per Week, Add	909.05	
	For >80 Hours Usage Per Week, Add	1,818.10	
01 22 23 00-1166	MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	6,338.66	
	For >160 To 320 Hours Usage Per Month, Add	2,535.46	
	For >320 Hours Usage Per Month, Add	5,070.93	
	For >6 Months (>26 Weeks), Deduct	-253.55	
01 22 23 00-1167	DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,156.53	
	For >8 To 16 Hours Usage Per Day, Add	462.61	
	For >16 To 24 Hours Usage Per Day, Add	925.22	
01 22 23 00-1168	WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	2,954.00	
	For >40 To 80 Hours Usage Per Week, Add	1,181.60	
	For >80 Hours Usage Per Week, Add	2,363.20	
01 22 23 00-1169	MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	8,673.95	
	For >160 To 320 Hours Usage Per Month, Add	3,469.58	
	For >320 Hours Usage Per Month, Add	6,939.16	
	For >6 Months (>26 Weeks), Deduct	-346.96	
01 22 23 00-1170 3 Phase Electric Submersible Pumps (01 22 23 00-1119)			
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1171	DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump.....	202.19	
01 22 23 00-1172	WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump.....	505.48	
01 22 23 00-1173	MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump.....	1,516.42	
	For >6 Months (>26 Weeks), Deduct	-60.66	
01 22 23 00-1174	DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump.....	266.89	
01 22 23 00-1175	WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump.....	667.23	
01 22 23 00-1176	MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump.....	2,001.68	
	For >6 Months (>26 Weeks), Deduct	-80.07	
01 22 23 00-1177 Suction Hose With Couplings (01 22 23 00-1119)			
Note: Includes delivery, set-up, and removal.			
01 22 23 00-1178	DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	4.67	
	For Half Day Usage, Deduct	-1.46	
01 22 23 00-1179	WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	11.67	
01 22 23 00-1180	MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	35.79	
	For >6 Months (>26 Weeks), Deduct	-1.43	
01 22 23 00-1181	DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	12.45	
	For Half Day Usage, Deduct	-3.89	
01 22 23 00-1182	WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	31.90	
01 22 23 00-1183	MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	97.25	
	For >6 Months (>26 Weeks), Deduct	-3.89	
01 22 23 00-1184	DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	18.67	
	For Half Day Usage, Deduct	-5.83	
01 22 23 00-1185	WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	47.46	
01 22 23 00-1186	MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	143.93	
	For >6 Months (>26 Weeks), Deduct	-5.76	
01 22 23 00-1187	DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	23.34	
	For Half Day Usage, Deduct	-7.29	
01 22 23 00-1188	WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	58.35	
01 22 23 00-1189	MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	171.16	
	For >6 Months (>26 Weeks), Deduct	-6.85	

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01 22 23 00-1190 DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	54.46	
For Half Day Usage, Deduct	-17.02	
01 22 23 00-1191 WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	140.04	
01 22 23 00-1192 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	412.34	
For >6 Months (>26 Weeks), Deduct	-16.49	
01 22 23 00-1193 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	73.13	
For Half Day Usage, Deduct	-22.85	
01 22 23 00-1194 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	159.49	
01 22 23 00-1195 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	478.47	
For >6 Months (>26 Weeks), Deduct	-19.14	
01 22 23 00-1196 Discharge Hose With Couplings (01 22 23 00-1119)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1197 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	4.67	
For Half Day Usage, Deduct	-1.46	
01 22 23 00-1198 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	11.67	
01 22 23 00-1199 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	35.79	
For >6 Months (>26 Weeks), Deduct	-1.43	
01 22 23 00-1200 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	5.45	
For Half Day Usage, Deduct	-1.70	
01 22 23 00-1201 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	13.23	
01 22 23 00-1202 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	41.23	
For >6 Months (>26 Weeks), Deduct	-1.65	
01 22 23 00-1203 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	6.22	
For Half Day Usage, Deduct	-1.94	
01 22 23 00-1204 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	15.56	
01 22 23 00-1205 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	47.46	
For >6 Months (>26 Weeks), Deduct	-1.90	
01 22 23 00-1206 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	16.34	
For Half Day Usage, Deduct	-5.11	
01 22 23 00-1207 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	42.01	
01 22 23 00-1208 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	120.59	
For >6 Months (>26 Weeks), Deduct	-4.82	
01 22 23 00-1209 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	20.23	
For Half Day Usage, Deduct	-6.32	
01 22 23 00-1210 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	55.24	
01 22 23 00-1211 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	151.71	
For >6 Months (>26 Weeks), Deduct	-6.07	
01 22 23 00-1212 DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings	15.56	
For Half Day Usage, Deduct	-4.86	
01 22 23 00-1213 WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings	38.90	
01 22 23 00-1214 MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings	116.70	
For >6 Months (>26 Weeks), Deduct	-4.67	
01 22 23 00-1215 DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings	39.68	
For Half Day Usage, Deduct	-12.40	
01 22 23 00-1216 WK 12" Inside Diameter, 10' Length, Discharge Hose With Couplings	101.14	
01 22 23 00-1217 MO 12" Inside Diameter, 10' Length, Discharge Hose With Couplings	299.53	
For >6 Months (>26 Weeks), Deduct	-11.98	
01 22 23 00-1218 Hydraulic Submersible Pumps (01 22 23 00-1119)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1219 Hydraulic Submersible Pumps (01 22 23 00-1218)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1220 DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	133.45	
For >8 To 16 Hours Usage Per Day, Add	53.38	
For >16 To 24 Hours Usage Per Day, Add	106.76	
01 22 23 00-1221 WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	357.88	
For >40 To 80 Hours Usage Per Week, Add	143.15	
For >80 Hours Usage Per Week, Add	286.30	
01 22 23 00-1222 MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	1,000.84	
For >160 To 320 Hours Usage Per Month, Add	400.34	
For >320 Hours Usage Per Month, Add	800.67	
For >6 Months (>26 Weeks), Deduct	-40.03	
01 22 23 00-1223 DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	169.84	
For >8 To 16 Hours Usage Per Day, Add	67.94	
For >16 To 24 Hours Usage Per Day, Add	135.87	
01 22 23 00-1224 WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	436.73	
For >40 To 80 Hours Usage Per Week, Add	174.69	
For >80 Hours Usage Per Week, Add	349.38	
01 22 23 00-1225 MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	1,334.45	
For >160 To 320 Hours Usage Per Month, Add	533.78	
For >320 Hours Usage Per Month, Add	1,067.56	
For >6 Months (>26 Weeks), Deduct	-53.38	
01 22 23 00-1226 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1218)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1227 DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	308.34	
For >8 To 16 Hours Usage Per Day, Add	123.34	
For >16 To 24 Hours Usage Per Day, Add	246.67	



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01 22 23 00-1228 WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	919.96	
For >40 To 80 Hours Usage Per Week, Add	367.98	
For >80 Hours Usage Per Week, Add	735.97	
01 22 23 00-1229 MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	2,426.28	
For >160 To 320 Hours Usage Per Month, Add	970.51	
For >320 Hours Usage Per Month, Add	1,941.02	
For >6 Months (>26 Weeks), Deduct	-97.05	
01 22 23 00-1230 HDPE Pipe With Couplings (01 22 23 00-1119)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1231 DAY 4" Diameter x 50' Length, HDPE Pipe With Couplings	14.70	
For Half Day Usage, Deduct	-4.59	
01 22 23 00-1232 WK 4" Diameter x 50' Length, HDPE Pipe With Couplings	35.27	
01 22 23 00-1233 MO 4" Diameter x 50' Length, HDPE Pipe With Couplings	108.75	
For >6 Months (>26 Weeks), Deduct	-4.35	
01 22 23 00-1234 DAY 6" Diameter x 50' Length, HDPE Pipe With Couplings	23.51	
For Half Day Usage, Deduct	-7.35	
01 22 23 00-1235 WK 6" Diameter x 50' Length, HDPE Pipe With Couplings	58.79	
01 22 23 00-1236 MO 6" Diameter x 50' Length, HDPE Pipe With Couplings	179.30	
For >6 Months (>26 Weeks), Deduct	-7.17	
01 22 23 00-1237 DAY 8" Diameter x 50' Length, HDPE Pipe With Couplings	38.21	
For Half Day Usage, Deduct	-11.94	
01 22 23 00-1238 WK 8" Diameter x 50' HDPE Length, HDPE With Couplings.....	99.94	
01 22 23 00-1239 MO 8" Diameter x 50' Length, HDPE Pipe With Couplings	296.87	
For >6 Months (>26 Weeks), Deduct	-11.87	
01 22 23 00-1240 DAY 10" Diameter x 50' Length, HDPE Pipe With Couplings	47.03	
For Half Day Usage, Deduct	-14.70	
01 22 23 00-1241 WK 10" Diameter x 50' Length, HDPE Pipe With Couplings	120.51	
01 22 23 00-1242 MO 10" Diameter x 50' Length, HDPE Pipe With Couplings	367.41	
For >6 Months (>26 Weeks), Deduct	-14.70	
01 22 23 00-1243 DAY 12" Diameter x 20' Length, HDPE Pipe With Couplings	35.27	
For Half Day Usage, Deduct	-11.02	
01 22 23 00-1244 WK 12" Diameter x 20' Length, HDPE Pipe With Couplings	97.00	
01 22 23 00-1245 MO 12" Diameter x 20' Length, HDPE Pipe With Couplings	293.93	
For >6 Months (>26 Weeks), Deduct	-11.76	
01 22 23 00-1246 DAY 4" Diameter Elbow For HDPE Pipe, Quick Connect	35.27	
For Half Day Usage, Deduct	-11.02	
01 22 23 00-1247 WK 4" Diameter Elbow For HDPE Pipe, Quick Connect	91.12	
01 22 23 00-1248 MO 4" Diameter Elbow For HDPE Pipe, Quick Connect	270.42	
For >6 Months (>26 Weeks), Deduct	-10.82	
01 22 23 00-1249 DAY 6" Diameter Elbow For HDPE Pipe, Quick Connect	41.15	
For Half Day Usage, Deduct	-12.86	
01 22 23 00-1250 WK 6" Diameter Elbow For HDPE Pipe, Quick Connect	105.81	
01 22 23 00-1251 MO 6" Diameter Elbow For HDPE Pipe, Quick Connect	323.32	
For >6 Months (>26 Weeks), Deduct	-12.93	
01 22 23 00-1252 DAY 8" Diameter Elbow For HDPE Pipe, Quick Connect	47.03	
For Half Day Usage, Deduct	-14.70	
01 22 23 00-1253 WK 8" Diameter Elbow For HDPE Pipe, Quick Connect	120.51	
01 22 23 00-1254 MO 8" Diameter Elbow For HDPE Pipe, Quick Connect	367.41	
For >6 Months (>26 Weeks), Deduct	-14.70	
01 22 23 00-1255 DAY 10" Diameter Elbow For HDPE Pipe, Quick Connect	58.79	
For Half Day Usage, Deduct	-18.37	
01 22 23 00-1256 WK 10" Diameter Elbow For HDPE Pipe, Quick Connect	149.90	
01 22 23 00-1257 MO 10" Diameter Elbow For HDPE Pipe, Quick Connect	455.59	
For >6 Months (>26 Weeks), Deduct	-18.22	
01 22 23 00-1258 DAY 12" Diameter Elbow For HDPE Pipe, Quick Connect	58.79	
For Half Day Usage, Deduct	-18.37	
01 22 23 00-1259 WK 12" Diameter Elbow For HDPE Pipe, Quick Connect	149.90	
01 22 23 00-1260 MO 12" Diameter Elbow For HDPE Pipe, Quick Connect	455.59	
For >6 Months (>26 Weeks), Deduct	-18.22	
01 22 23 00-1261 DAY 4" Diameter Tee For HDPE Pipe, Quick Connect	35.27	
For Half Day Usage, Deduct	-11.02	
01 22 23 00-1262 WK 4" Diameter Tee For HDPE Pipe, Quick Connect	91.12	
01 22 23 00-1263 MO 4" Diameter Tee For HDPE Pipe, Quick Connect	270.42	
For >6 Months (>26 Weeks), Deduct	-10.82	
01 22 23 00-1264 DAY 6" Diameter Tee For HDPE Pipe, Quick Connect	47.03	
For Half Day Usage, Deduct	-14.70	
01 22 23 00-1265 WK 6" Diameter Tee For HDPE Pipe, Quick Connect	120.51	
01 22 23 00-1266 MO 6" Diameter Tee For HDPE Pipe, Quick Connect	367.41	
For >6 Months (>26 Weeks), Deduct	-14.70	
01 22 23 00-1267 DAY 8" Diameter Tee For HDPE Pipe, Quick Connect	58.79	
For Half Day Usage, Deduct	-18.37	
01 22 23 00-1268 WK 8" Diameter Tee For HDPE Pipe, Quick Connect	149.90	
01 22 23 00-1269 MO 8" Diameter Tee For HDPE Pipe, Quick Connect	455.59	
For >6 Months (>26 Weeks), Deduct	-18.22	
01 22 23 00-1270 DAY 10" Diameter Tee For HDPE Pipe, Quick Connect	70.54	
For Half Day Usage, Deduct	-22.04	
01 22 23 00-1271 WK 10" Diameter Tee For HDPE Pipe, Quick Connect	179.30	
01 22 23 00-1272 MO 10" Diameter Tee For HDPE Pipe, Quick Connect	543.77	
For >6 Months (>26 Weeks), Deduct	-21.75	
01 22 23 00-1273 DAY 12" Diameter Tee For HDPE Pipe, Quick Connect	70.54	
For Half Day Usage, Deduct	-22.04	
01 22 23 00-1274 WK 12" Diameter Tee For HDPE Pipe, Quick Connect	179.30	

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01 22 23 00-1275	MO	12" Diameter Tee For HDPE Pipe, Quick Connect.....	543.77	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-21.75	
01 22 23 00-1276	DAY	4" Diameter Cap For HDPE Pipe, Quick Connect.....	5.88	
		<i>For Half Day Usage, Deduct</i>	-1.84	
01 22 23 00-1277	WK	4" Diameter Cap For HDPE Pipe, Quick Connect.....	17.64	
01 22 23 00-1278	MO	4" Diameter Cap For HDPE Pipe, Quick Connect.....	52.91	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-2.12	
01 22 23 00-1279	DAY	6" Diameter Cap For HDPE Pipe, Quick Connect.....	5.88	
		<i>For Half Day Usage, Deduct</i>	-1.84	
01 22 23 00-1280	WK	6" Diameter Cap For HDPE Pipe, Quick Connect.....	17.64	
01 22 23 00-1281	MO	6" Diameter Cap For HDPE Pipe, Quick Connect.....	52.91	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-2.12	
01 22 23 00-1282	DAY	8" Diameter Cap For HDPE Pipe, Quick Connect.....	5.88	
		<i>For Half Day Usage, Deduct</i>	-1.84	
01 22 23 00-1283	WK	8" Diameter Cap For HDPE Pipe, Quick Connect.....	17.64	
01 22 23 00-1284	MO	8" Diameter Cap For HDPE Pipe, Quick Connect.....	52.91	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-2.12	
01 22 23 00-1285	DAY	10" Diameter Cap For HDPE Pipe, Quick Connect.....	5.88	
		<i>For Half Day Usage, Deduct</i>	-1.84	
01 22 23 00-1286	WK	10" Diameter Cap For HDPE Pipe, Quick Connect.....	17.64	
01 22 23 00-1287	MO	10" Diameter Cap For HDPE Pipe, Quick Connect.....	52.91	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-2.12	
01 22 23 00-1288	DAY	12" Diameter Cap For HDPE Pipe, Quick Connect.....	5.88	
		<i>For Half Day Usage, Deduct</i>	-1.84	
01 22 23 00-1289	WK	12" Diameter Cap For HDPE Pipe, Quick Connect.....	17.64	
01 22 23 00-1290	MO	12" Diameter Cap For HDPE Pipe, Quick Connect.....	52.91	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-2.12	
01 22 23 00-1291	DAY	4" Diameter Wye For HDPE Pipe, Quick Connect.....	17.64	
		<i>For Half Day Usage, Deduct</i>	-5.51	
01 22 23 00-1292	WK	4" Diameter Wye For HDPE Pipe, Quick Connect.....	44.09	
01 22 23 00-1293	MO	4" Diameter Wye For HDPE Pipe, Quick Connect.....	135.21	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-5.41	
01 22 23 00-1294	DAY	6" Diameter Wye For HDPE Pipe, Quick Connect.....	20.58	
		<i>For Half Day Usage, Deduct</i>	-6.43	
01 22 23 00-1295	WK	6" Diameter Wye For HDPE Pipe, Quick Connect.....	52.91	
01 22 23 00-1296	MO	6" Diameter Wye For HDPE Pipe, Quick Connect.....	161.66	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-6.47	
01 22 23 00-1297	DAY	8" Diameter Wye For HDPE Pipe, Quick Connect.....	35.27	
		<i>For Half Day Usage, Deduct</i>	-11.02	
01 22 23 00-1298	WK	8" Diameter Wye For HDPE Pipe, Quick Connect.....	91.12	
01 22 23 00-1299	MO	8" Diameter Wye For HDPE Pipe, Quick Connect.....	270.42	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-10.82	
01 22 23 00-1300	DAY	10" Diameter Wye For HDPE Pipe, Quick Connect.....	52.91	
		<i>For Half Day Usage, Deduct</i>	-16.53	
01 22 23 00-1301	WK	10" Diameter Wye For HDPE Pipe, Quick Connect.....	135.21	
01 22 23 00-1302	MO	10" Diameter Wye For HDPE Pipe, Quick Connect.....	411.50	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-16.46	
01 22 23 00-1303	DAY	12" Diameter Wye For HDPE Pipe, Quick Connect.....	52.91	
		<i>For Half Day Usage, Deduct</i>	-16.53	
01 22 23 00-1304	WK	12" Diameter Wye For HDPE Pipe, Quick Connect.....	135.21	
01 22 23 00-1305	MO	12" Diameter Wye For HDPE Pipe, Quick Connect.....	411.50	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-16.46	
01 22 23 00-1306		Truck And Trailer Equipment (01 22 23)		
01 22 23 00-1307		Trucks (01 22 23 00-1306)		
		Note: Includes driver, delivery to job site and pick-up when complete.		
01 22 23 00-1308		Flat Bed Trucks (01 22 23 00-1307)		
		Note: Includes hydraulic tilt bed.		
01 22 23 00-1309	DAY	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,094.98	
		<i>For Equipment Without Operator, Deduct</i>	-806.32	
		<i>For Half Day Usage, Deduct</i>	-493.37	
01 22 23 00-1310	WK	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,788.37	
		<i>For Equipment Without Operator, Deduct</i>	-4,031.62	
01 22 23 00-1311	MO	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	19,381.73	
		<i>For Equipment Without Operator, Deduct</i>	-17,470.36	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-76.45	
01 22 23 00-1312	DAY	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,219.80	
		<i>For Equipment Without Operator, Deduct</i>	-806.32	
		<i>For Half Day Usage, Deduct</i>	-532.37	
01 22 23 00-1313	WK	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	5,108.23	
		<i>For Equipment Without Operator, Deduct</i>	-4,031.62	
01 22 23 00-1314	MO	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	20,200.88	
		<i>For Equipment Without Operator, Deduct</i>	-17,470.36	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-109.22	
01 22 23 00-1315	DAY	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,309.36	
		<i>For Equipment Without Operator, Deduct</i>	-806.32	
		<i>For Half Day Usage, Deduct</i>	-560.36	
01 22 23 00-1316	WK	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	5,450.56	
		<i>For Equipment Without Operator, Deduct</i>	-4,031.62	
01 22 23 00-1317	MO	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	21,503.74	
		<i>For Equipment Without Operator, Deduct</i>	-17,470.36	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-161.34	



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CSI UOM DESCRIPTION		UNIT COST		UNIT COST
01 22 23 00-1318 Light Off-Road Utility Passanger Vehicles (01 22 23 00-1307)				
01 22 23 00-1319	DAY 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....		317.74	
	For Half Day Usage, Deduct		-99.29	
01 22 23 00-1320	WK 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....		734.78	
01 22 23 00-1321	MO 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....		1,588.72	
	For >6 Months (>26 Weeks), Deduct		-63.55	
01 22 23 00-1322	DAY 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....		327.67	
	For Half Day Usage, Deduct		-102.40	
01 22 23 00-1323	WK 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....		764.57	
01 22 23 00-1324	MO 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....		1,688.02	
	For >6 Months (>26 Weeks), Deduct		-67.52	
01 22 23 00-1325 Light And Heavy Duty Trucks (01 22 23 00-1307)				
01 22 23 00-1326	DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....		1,044.31	
	For Equipment Without Operator, Deduct		-799.14	
	For Half Day Usage, Deduct		-476.19	
01 22 23 00-1327	WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....		4,800.14	
	For Equipment Without Operator, Deduct		-3,995.68	
01 22 23 00-1328	MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....		19,000.15	
	For Equipment Without Operator, Deduct		-17,314.62	
	For >6 Months (>26 Weeks), Deduct		-67.42	
01 22 23 00-1329	DAY 3/4 Ton, 4 x 4 Heavy Duty Crew Cab Pickup Truck With Full-Time Truck Driver		1,090.28	
	For Equipment Without Operator, Deduct		-799.14	
	For Half Day Usage, Deduct		-490.55	
01 22 23 00-1330	WK 3/4 Ton, 4 x 4 Heavy Duty Crew Cab Pickup Truck With Full-Time Truck Driver		4,938.04	
	For Equipment Without Operator, Deduct		-3,995.68	
01 22 23 00-1331	MO 3/4 Ton, 4 x 4 Heavy Duty Crew Cab Pickup Truck With Full-Time Truck Driver		19,306.61	
	For Equipment Without Operator, Deduct		-17,314.62	
	For >6 Months (>26 Weeks), Deduct		-79.68	
01 22 23 00-1332 Boom Trucks (01 22 23 00-1307)				
01 22 23 00-1333	DAY 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver		1,343.84	
	For Equipment Without Operator, Deduct		-806.32	
	For Half Day Usage, Deduct		-571.14	
01 22 23 00-1334	WK 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver		5,431.21	
	For Equipment Without Operator, Deduct		-4,031.62	
01 22 23 00-1335	MO 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver		21,020.04	
	For Equipment Without Operator, Deduct		-17,470.36	
	For >6 Months (>26 Weeks), Deduct		-141.99	
01 22 23 00-1336 Rear Dump Trucks (01 22 23 00-1307)				
01 22 23 00-1337	DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver		1,173.40	
	For Equipment Without Operator, Deduct		-806.32	
	For Half Day Usage, Deduct		-517.87	
01 22 23 00-1338	WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver		5,001.19	
	For Equipment Without Operator, Deduct		-4,031.62	
01 22 23 00-1339	MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver		20,438.92	
	For Equipment Without Operator, Deduct		-17,470.36	
	For >6 Months (>26 Weeks), Deduct		-118.74	
01 22 23 00-1340	DAY 3 To 4 CY Rear Dump Truck With Full-Time Truck Driver		1,295.10	
	For Equipment Without Operator, Deduct		-806.32	
	For Half Day Usage, Deduct		-555.90	
01 22 23 00-1341	WK 3 To 4 CY Rear Dump Truck With Full-Time Truck Driver		5,378.24	
	For Equipment Without Operator, Deduct		-4,031.62	
01 22 23 00-1342	MO 3 To 4 CY Rear Dump Truck With Full-Time Truck Driver		20,961.61	
	For Equipment Without Operator, Deduct		-17,470.36	
	For >6 Months (>26 Weeks), Deduct		-139.65	
01 22 23 00-1343	DAY 5 To 6 CY Rear Dump Truck With Full-Time Truck Driver		1,364.92	
	For Equipment Without Operator, Deduct		-806.32	
	For Half Day Usage, Deduct		-577.72	
01 22 23 00-1344	WK 5 To 6 CY Rear Dump Truck With Full-Time Truck Driver		5,527.87	
	For Equipment Without Operator, Deduct		-4,031.62	
01 22 23 00-1345	MO 5 To 6 CY Rear Dump Truck With Full-Time Truck Driver		21,061.36	
	For Equipment Without Operator, Deduct		-17,470.36	
	For >6 Months (>26 Weeks), Deduct		-143.64	
01 22 23 00-1346	DAY 12 To 14 CY Rear Dump Truck With Full-Time Truck Driver		2,192.84	
	For Equipment Without Operator, Deduct		-806.32	
	For Half Day Usage, Deduct		-836.45	
01 22 23 00-1347	WK 12 To 14 CY Rear Dump Truck With Full-Time Truck Driver		7,233.60	
	For Equipment Without Operator, Deduct		-4,031.62	
01 22 23 00-1348	MO 12 To 14 CY Rear Dump Truck With Full-Time Truck Driver		25,849.36	
	For Equipment Without Operator, Deduct		-17,470.36	
	For >6 Months (>26 Weeks), Deduct		-335.16	
01 22 23 00-1349	DAY 18 CY Rear Dump Truck With Full-Time Truck Driver		2,331.50	
	For Equipment Without Operator, Deduct		-806.32	
	For Half Day Usage, Deduct		-879.78	
01 22 23 00-1350	WK 18 CY Rear Dump Truck With Full-Time Truck Driver		7,553.79	
	For Equipment Without Operator, Deduct		-4,031.62	

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01 22 23 00-1351	MO	18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	26,687.26 -17,470.36 -368.68	
01 22 23 00-1352 Under-Bridge Inspection Trucks (01 22 23 00-1307)				
01 22 23 00-1353	DAY	40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,854.68 -806.32 -1,668.27	
01 22 23 00-1354	WK	40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	22,085.10 -4,031.62	
01 22 23 00-1355	MO	40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	81,466.50 -17,470.36 -2,559.85	
01 22 23 00-1356	DAY	50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	5,401.75 -806.32 -1,839.23	
01 22 23 00-1357	WK	50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	23,179.24 -4,031.62	
01 22 23 00-1358	MO	50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	85,595.29 -17,470.36 -2,725.00	
01 22 23 00-1359	DAY	60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	5,730.00 -806.32 -1,941.81	
01 22 23 00-1360	WK	60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	24,820.47 -4,031.62	
01 22 23 00-1361	MO	60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	89,724.08 -17,470.36 -2,890.15	
01 22 23 00-1362	DAY	75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	7,152.39 -806.32 -2,386.31	
01 22 23 00-1363	WK	75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	31,385.37 -4,031.62	
01 22 23 00-1364	MO	75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	110,367.99 -17,470.36 -3,715.91	
01 22 23 00-1365 Vacuum Trucks (01 22 23 00-1307)				
01 22 23 00-1366	DAY	1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,158.02 -806.32 -513.07	
01 22 23 00-1367	WK	1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	5,079.81 -4,031.62	
01 22 23 00-1368	MO	1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	20,566.66 -17,470.36 -123.85	
01 22 23 00-1369	DAY	5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	2,182.87 -806.32 -833.33	
01 22 23 00-1370	WK	5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	8,177.23 -4,031.62	
01 22 23 00-1371	MO	5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	29,703.70 -17,470.36 -489.33	
01 22 23 00-1372 Water Trucks (01 22 23 00-1307)				
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1196 for additional discharge hose, 01 22 23 00-1411 for water trailer, 31 23 23 23-0001 for compaction water as required for earth/aggregate backfill.				
01 22 23 00-1373	DAY	2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i> <i>For Half Day Usage, Deduct</i>	1,426.96 -806.32 15.32 -597.11	
01 22 23 00-1374	WK	2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	5,665.97 -4,031.62 15.32	
01 22 23 00-1375	MO	2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	21,332.12 -17,470.36 15.32 -154.47	
01 22 23 00-1376	DAY	2,500 To 3,000 Gallon Water Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i> <i>For Half Day Usage, Deduct</i>	1,537.30 -806.32 15.32 -631.59	
01 22 23 00-1377	WK	2,500 To 3,000 Gallon Water Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	6,431.43 -4,031.62 15.32	
01 22 23 00-1378	MO	2,500 To 3,000 Gallon Water Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i> <i>For >6 Months (>26 Weeks), Deduct</i>	23,449.19 -17,470.36 15.32 -239.15	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1379 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Truck Driver	1,730.38	
For Equipment Without Operator, Deduct	-806.32	
For Each 1,000 Gallon Of Purchased Water, Add	15.32	
For Half Day Usage, Deduct	-691.93	
01 22 23 00-1380 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Truck Driver	6,576.24	
For Equipment Without Operator, Deduct	-4,031.62	
For Each 1,000 Gallon Of Purchased Water, Add	15.32	
01 22 23 00-1381 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Truck Driver	23,676.76	
For Equipment Without Operator, Deduct	-17,470.36	
For Each 1,000 Gallon Of Purchased Water, Add	15.32	
For >6 Months (>26 Weeks), Deduct	-248.26	
01 22 23 00-1382 Asphalt Distribution Trucks (01 22 23 00-1307)		
01 22 23 00-1383 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	2,143.50	
For Equipment Without Operator, Deduct	-806.32	
For Half Day Usage, Deduct	-821.03	
01 22 23 00-1384 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	8,025.99	
For Equipment Without Operator, Deduct	-4,031.62	
01 22 23 00-1385 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	29,278.71	
For Equipment Without Operator, Deduct	-17,470.36	
For >6 Months (>26 Weeks), Deduct	-472.33	
01 22 23 00-1386 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board (01 22 23 00-1307)		
01 22 23 00-1387 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	1,544.55	
For Equipment Without Operator, Deduct	-799.14	
For Half Day Usage, Deduct	-632.51	
01 22 23 00-1388 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	6,195.60	
For Equipment Without Operator, Deduct	-3,995.68	
01 22 23 00-1389 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	22,657.05	
For Equipment Without Operator, Deduct	-17,314.62	
For >6 Months (>26 Weeks), Deduct	-213.70	
01 22 23 00-1390 Vacuum Sweeper Trucks For Bridge Decks (01 22 23 00-1307)		
01 22 23 00-1391 DAY Vacuum Sweeper Truck, With Full-Time Truck Driver	2,182.87	
For Equipment Without Operator, Deduct	-806.32	
For Half Day Usage, Deduct	-833.33	
01 22 23 00-1392 WK Vacuum Sweeper Truck, With Full-Time Truck Driver	8,177.23	
For Equipment Without Operator, Deduct	-4,031.62	
01 22 23 00-1393 MO Vacuum Sweeper Truck, With Full-Time Truck Driver	29,703.70	
For Equipment Without Operator, Deduct	-17,470.36	
For >6 Months (>26 Weeks), Deduct	-489.33	
01 22 23 00-1394 Combination Jet/Vacuum Trucks (01 22 23 00-1307)		
01 22 23 00-1395 DAY 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,414.77	
For Equipment Without Operator, Deduct	-806.32	
For Half Day Usage, Deduct	-1,218.30	
01 22 23 00-1396 WK 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	16,242.33	
For Equipment Without Operator, Deduct	-4,031.62	
01 22 23 00-1397 DAY 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,869.94	
For Equipment Without Operator, Deduct	-806.32	
For Half Day Usage, Deduct	-1,360.54	
01 22 23 00-1398 WK 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	18,890.18	
For Equipment Without Operator, Deduct	-4,031.62	
01 22 23 00-1399 DAY 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	4,307.60	
For Equipment Without Operator, Deduct	-806.32	
For Half Day Usage, Deduct	-1,497.31	
01 22 23 00-1400 WK 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	21,538.02	
For Equipment Without Operator, Deduct	-4,031.62	
01 22 23 00-1401 Straight/Box Trucks (01 22 23 00-1307)		
01 22 23 00-1402 DAY 18,000 Lb. Capacity, 24' Straight/Box Truck With Full-Time Truck Driver	929.58	
Note: Includes 2,500 Lb. lift gate.		
For Equipment Without Operator, Deduct	-806.32	
For Half Day Usage, Deduct	-441.68	
01 22 23 00-1403 WK 18,000 Lb. Capacity, 24' Straight/Box Truck With Full-Time Truck Driver	4,647.94	
Note: Includes 2,500 Lb. lift gate.		
For Equipment Without Operator, Deduct	-4,031.62	
01 22 23 00-1404 MO 18,000 Lb. Capacity, 24' Straight/Box Truck With Full-Time Truck Driver	19,289.67	
Note: Includes 2,500 Lb. lift gate.		
For Equipment Without Operator, Deduct	-17,470.36	
For >6 Months (>26 Weeks), Deduct	-72.77	

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01 22 23 00-1405		Truck Mounted Accessories (01 22 23 00-1306) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1406		Truck Mounted Arrow Boards (01 22 23 00-1405)		
01 22 23 00-1407	DAY	Truck Mounted Arrow Board	48.47	
		<i>For Half Day Usage, Deduct</i>	-15.15	
01 22 23 00-1408	WK	Truck Mounted Arrow Board	192.80	
01 22 23 00-1409	MO	Truck Mounted Arrow Board	687.46	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-27.50	
01 22 23 00-1410		Trailers (01 22 23 00-1306) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1411		Water Trailers With Pump (01 22 23 00-1410)		
01 22 23 00-1412	DAY	500 To 600 Gallon Water Trailer With Pump	158.61	
		<i>For Half Day Usage, Deduct</i>	-49.57	
01 22 23 00-1413	WK	500 To 600 Gallon Water Trailer With Pump	406.86	
01 22 23 00-1414	MO	500 To 600 Gallon Water Trailer With Pump	1,089.57	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-43.58	
01 22 23 00-1415		Manual Powered, Full, Rear Dump Trailer (01 22 23 00-1410)		
01 22 23 00-1416	DAY	10 CY, Manual Powered, Full, Rear Dump Trailer	292.47	
		<i>For Half Day Usage, Deduct</i>	-91.40	
01 22 23 00-1417	WK	10 CY, Manual Powered, Full, Rear Dump Trailer	1,167.66	
01 22 23 00-1418	MO	10 CY, Manual Powered, Full, Rear Dump Trailer	4,182.66	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-167.31	
01 22 23 00-1419	DAY	13 CY, Manual Powered, Full, Rear Dump Trailer	336.08	
		<i>For Half Day Usage, Deduct</i>	-105.03	
01 22 23 00-1420	WK	13 CY, Manual Powered, Full, Rear Dump Trailer	1,344.34	
01 22 23 00-1421	MO	13 CY, Manual Powered, Full, Rear Dump Trailer	4,797.50	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-191.90	
01 22 23 00-1422	DAY	16 CY, Manual Powered, Full, Rear Dump Trailer	376.68	
		<i>For Half Day Usage, Deduct</i>	-117.71	
01 22 23 00-1423	WK	16 CY, Manual Powered, Full, Rear Dump Trailer	1,495.44	
01 22 23 00-1424	MO	16 CY, Manual Powered, Full, Rear Dump Trailer	5,322.69	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-212.91	
01 22 23 00-1425		Hydraulic Lift, Rear Dump Trailers (01 22 23 00-1410)		
01 22 23 00-1426	DAY	30 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	336.49	
		<i>For Half Day Usage, Deduct</i>	-105.15	
01 22 23 00-1427	WK	30 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	1,456.92	
01 22 23 00-1428	MO	30 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	5,455.57	
01 22 23 00-1429	DAY	40 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	416.33	
		<i>For Half Day Usage, Deduct</i>	-130.10	
01 22 23 00-1430	WK	40 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	1,811.01	
01 22 23 00-1431	DAY	40 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	6,759.13	
		<i>For Half Day Usage, Deduct</i>	-2,112.23	
01 22 23 00-1432	DAY	60 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	544.43	
		<i>For Half Day Usage, Deduct</i>	-170.13	
01 22 23 00-1433	WK	60 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	2,350.02	
01 22 23 00-1434	MO	60 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	8,779.88	
01 22 23 00-1435	DAY	80 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	575.10	
		<i>For Half Day Usage, Deduct</i>	-179.72	
01 22 23 00-1436	WK	80 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	2,469.55	
01 22 23 00-1437	MO	80 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	9,190.35	
01 22 23 00-1438	DAY	100 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	589.99	
		<i>For Half Day Usage, Deduct</i>	-184.37	
01 22 23 00-1439	WK	100 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	2,532.70	
01 22 23 00-1440	MO	100 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	9,454.22	
01 22 23 00-1441		Trailer Mounted Equipment (01 22 23 00-1306)		
01 22 23 00-1442		Trailer Mounted Under-Bridge Aerial Access Platform (01 22 23 00-1441) Note: Includes full-time operator. Excludes truck.		
01 22 23 00-1443	DAY	Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	3,074.19	
		<i>For Equipment Without Operator, Deduct</i>	-806.32	
		<i>For Half Day Usage, Deduct</i>	-1,111.87	
01 22 23 00-1444	WK	Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	10,835.24	
		<i>For Equipment Without Operator, Deduct</i>	-4,031.62	
01 22 23 00-1445	MO	Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	36,369.31	
		<i>For Equipment Without Operator, Deduct</i>	-17,470.36	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-755.96	
01 22 23 00-1446	DAY	Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	3,300.98	
		<i>For Equipment Without Operator, Deduct</i>	-806.32	
		<i>For Half Day Usage, Deduct</i>	-1,182.74	
01 22 23 00-1447	WK	Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	11,515.61	
		<i>For Equipment Without Operator, Deduct</i>	-4,031.62	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1448 MO Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	38,259.21 -17,470.36 -831.55	
01 22 23 00-1449 Trailer Mounted Bridge Stripping Buggy (01 22 23 00-1441)		
01 22 23 00-1450 DAY Trailer Mounted Bridge Overhang Stripping Buggy For Half Day Usage, Deduct	257.34 -80.42	
01 22 23 00-1451 WK Trailer Mounted Bridge Overhang Stripping Buggy	772.06	
01 22 23 00-1452 MO Trailer Mounted Bridge Overhang Stripping Buggy For >6 Months (>26 Weeks), Deduct	2,144.53 -85.78	
01 22 23 00-1453 Portable Trailer Mounted, CCTV Camera Systems (01 22 23 00-1441)		
Note: Includes trailer. Excludes truck.		
01 22 23 00-1454 MO Portable Trailer Mounted, Single Camera, CCTV Camera System For >6 Months (>26 Weeks), Deduct	2,978.85 -119.15	
01 22 23 00-1455 MO Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System For >6 Months (>26 Weeks), Deduct	5,163.34 -206.53	
01 22 23 00-1456 CALTRANS Equipment Rental Rates (01 22 23)		
Note: An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act. (These tasks will be requested specifically by the owner for miscellaneous work not covered in the Construction Task Catalog®)		
01 22 23 00-1457 EA CALTRANS Equipment Rental Rates, Reimbursable Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee. Per https://dot.ca.gov/programs/construction/equipment-rental-rates-and-labor-surcharge (Use most current dated PDF)	1.00	
01 40 Quality Requirements (01)		
01 41 Regulatory Requirements (01 40)		
01 41 26 Permit Requirements (01 41)		
See CSI section 01 22 16 00-0003 for reimbursable fees.		
01 42 References (01 40)		
01 42 13 Abbreviations and Acronyms (01 42)		
Note: For specification publishing. Review specifications for requirements.		
01 42 13 00-0001 NTE Abbreviations And Acronyms.....	0.00	
Note: For specification publishing. Review specifications for requirements.		
01 42 16 Definitions (01 42)		
Note: For specification publishing. Review specifications for requirements.		
01 42 16 00-0001 NTE Definitions.....	0.00	
Note: For specification publishing. Review specifications for requirements.		
01 42 19 Reference Standards (01 42)		
Note: For specification publishing. Review specifications for requirements.		
01 42 19 00-0001 NTE Reference Standards.....	0.00	
Note: For specification publishing. Review specifications for requirements.		
01 42 21 Construction Suppliers or Venor List (01 42)		
Note: For specification publishing. Review specifications for requirements.		
01 42 21 00-0001 NTE Construction Suppliers or Venor List	0.00	
Note: For specification publishing. Review specifications for requirements.		
01 45 Quality Control (01 40)		
Note: Refer to section specifications for testing included with other sections.		
01 45 23 Testing and Inspecting Services (01 45)		
Note: For application to existing materials/site conditions or additional testing over specifications stated tests. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.		
01 45 23 00-0001 Soils/Aggregate Testing (01 45 23)		
01 45 23 00-0002 Field Soils Tests (01 45 23 00-0001)		
01 45 23 00-0003 EA Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	362.89	
01 45 23 00-0004 EA 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	515.06	
01 45 23 00-0005 EA 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	585.30	
01 45 23 00-0006 EA Resistance (R) Value Soils Test, CA 301, Field Soils Test.....	468.24	
01 45 23 00-0007 EA Soils Classification Test, ASTM D-2487, Field Soils Test.....	702.36	
01 45 23 00-0008 SET Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	1,404.23	

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0009 EA Moisture Content, Field Soils Test.....	52.66	
01 45 23 00-0010 EA UBC Or Swell Test, Field Soils Test.....	140.47	
01 45 23 00-0011 EA Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	351.06	
01 45 23 00-0012 EA Proctor Compaction 6" Standard Mold, Field Soils Test.....	438.82	
01 45 23 00-0013 EA Density And Classification Test, Field Soils Test.....	106.93	
01 45 23 00-0014 EA Percolation Test, Field Soils Test.....	267.32	
01 45 23 00-0015 EA Infiltration Test, Field Soils Test.....	534.64	
01 45 23 00-0016 Aggregate Testing (01 45 23 00-0001)		
01 45 23 00-0017 EA Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	117.06	
01 45 23 00-0018 EA Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	210.71	
01 45 23 00-0019 EA Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	292.65	
01 45 23 00-0020 EA Sieve Analysis, Pit Run, ASTM C136.....	173.76	
Note: Includes wash.		
01 45 23 00-0021 EA Specific Special Gravity, Course, ASTM C127.....	185.99	
Note: Includes absorption test.		
01 45 23 00-0022 EA Special Gravity, Fine, ASTM C127.....	166.75	
Note: Includes absorption test.		
01 45 23 00-0023 EA Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	247.99	
01 45 23 00-0024 EA Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	234.12	
01 45 23 00-0025 EA Aggregate Cleanness Value, ASTM C-128, CA 227.....	234.12	
01 45 23 00-0026 EA Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217.....	175.59	
01 45 23 00-0027 EA Fine Aggregate Durability Index, CA 229.....	187.30	
01 45 23 00-0028 EA Sodium And Magnesium Soundness, ASTM C88.....	491.48	
01 45 23 00-0029 EA Los Angeles Rattler, ASTM C-131, CA 211.....	374.59	
01 45 23 00-0030 EA Los Angeles Rattler, ASTM C-535.....	374.59	
01 45 23 00-0031 EA Unit Weight Of Aggregates, ASTM C29.....	105.35	
01 45 23 00-0032 EA Organic Impurities In Sand, ASTM C40.....	105.32	
01 45 23 00-0033 EA Crushed Particle, ASTM California Test Method.....	105.32	
01 45 23 00-0034 EA Clay Lump And Friable Particles, ASTM C142.....	210.63	
01 45 23 00-0035 Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0036 In-Place Tests (01 45 23 00-0035)		
01 45 23 00-0037 EA Double Ring Infiltrometer Test, ASTM D3385.....	1,859.92	
01 45 23 00-0038 EA Unconfined Compressive Strength (Pocket Penetrometer) Test.....	87.76	
01 45 23 00-0039 Lab Tests (01 45 23 00-0035)		
01 45 23 00-0040 EA Falling Head Rigid Wall Consolidometer Technique CAE.....	867.96	
01 45 23 00-0041 EA Falling Head Permeability Test EPA-9100.....	867.96	
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432.....	495.98	
01 45 23 00-0043 Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0044 Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab.....	27.21	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633.....	74.40	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42.....	152.18	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78.....	222.41	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567.....	81.94	
01 45 23 00-0050 EA Concrete Mix Design Review.....	444.83	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory.....	1,053.54	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified.....	819.42	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	126.42	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143.....	58.53	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231.....	58.53	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA CCR Title 24, Cement Grab Sample.....	58.53	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials.....	93.65	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366.....	117.06	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927.....	304.36	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559.....	117.06	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559.....	304.36	
01 45 23 00-0064 EA Swell Test, CA 305.....	140.47	
Note: Includes compaction.		
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B.....	351.18	
01 45 23 00-0066 EA Gradation On Extracted Sample, ASTM D-5444.....	234.12	
01 45 23 00-0067 EA Maximum Theoretical Unit Weight, ASTM C2041.....	223.19	
01 45 23 00-0068 EA Unit Weight Sample Requiring Compaction, California Test Method 308.....	46.82	
01 45 23 00-0069 EA Asphalt Unit Weight On Core Test, CA 308C.....	46.82	
01 45 23 00-0070 HR Nuclear Field Density Testing, 4 Hour Minimum.....	241.14	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0071 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	120.29	
01 45 23 00-0072 EA Penetration, ASTM D5.....	169.10	
01 45 23 00-0073 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0074 Masonry Testing (01 45 23 00-0073)		
01 45 23 00-0075 EA 2" x 4" Cylinder Mortar Compression Test	77.26	
01 45 23 00-0076 EA 4" x 4" x 8" Grout Prisms Compression Test	77.26	
01 45 23 00-0077 EA Masonry Cores Compression Test	152.18	
01 45 23 00-0078 EA Composite Grouted Prism Compression Test.....	292.65	
01 45 23 00-0079 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0073)		
01 45 23 00-0080 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....	187.30	
01 45 23 00-0081 EA Absorption Test, Moisture Content And Unit Weight.....	128.77	
01 45 23 00-0082 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427	491.48	
01 45 23 00-0083 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	245.74	
01 45 23 00-0084 Metals Testing (01 45 23)		
01 45 23 00-0085 Tank Tightness Testing (01 45 23 00-0084)		
01 45 23 00-0086 GAL Up To 20 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	9.48	
01 45 23 00-0087 GAL >20 To 120 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks.....	8.12	
01 45 23 00-0088 EA Up To 12,000 Gallons, Tank Volumetric Tightness Testing	2,438.90	
01 45 23 00-0089 EA >12,000 To 29,999 Gallons, Tank Volumetric Tightness Testing	2,979.93	
01 45 23 00-0090 EA >29,999 Gallons, Tank Volumetric Tightness Testing	3,795.07	
01 45 23 00-0091 Tank Line Tightness Testing (01 45 23 00-0084)		
01 45 23 00-0092 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	514.63	
01 45 23 00-0093 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	571.43	
01 45 23 00-0094 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	628.05	
01 45 23 00-0095 Reinforcing Steel Tensile Testing (01 45 23 00-0084)		
01 45 23 00-0096 EA Up To #8 Reinforcing Steel Bar, Tensile Testing On Existing Material	73.84	
01 45 23 00-0097 EA >#8 To #12 Reinforcing Steel Bar, Tensile Testing On Existing Material.....	88.04	
01 45 23 00-0098 EA >#12 Reinforcing Steel Bar, Tensile Testing On Existing Material.....	110.76	
01 45 23 00-0099 Other Testing (01 45 23)		
01 45 23 00-0100 Special Testing (01 45 23 00-0099)		
01 45 23 00-0101 EA Asphalt Roofing Cutout Samples, To Determine Unit Weight	175.53	
01 45 23 00-0102 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	1,053.17	
01 45 23 00-0103 EA Total Coliform Bacteria And E. Coli Bacteria Test	54.71	
01 45 23 00-0104 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....	226.93	
01 45 23 00-0105 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample.....	226.93	
01 45 23 00-0106 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	226.93	
01 45 23 00-0107 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample	1,248.12	
01 45 23 00-0108 EA Testing And Certification Of Backflow Valves	620.93	
01 45 23 00-0109 Non-destructive Field Testing Services (01 45 23 00-0099)		
01 45 23 00-0110 Infrared Thermography (01 45 23 00-0109)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0111 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0110)		
Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0112 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	2,155.84	
01 45 23 00-0113 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....	6.81	
For Digital Or Analog Recording Of All Items, Add		1.02
01 45 23 00-0114 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	4.54	
For Digital Or Analog Recording Of All Items, Add		0.68
01 45 23 00-0115 Other Non-destructive Field Testing Services (01 45 23 00-0109)		
01 45 23 00-0116 HR ASNT Certified Level I NDT Consultant.....	75.58	
01 45 23 00-0117 HR ASNT Certified Level II NDT Consultant.....	85.10	
01 45 23 00-0118 HR ASNT Certified Level III NDT Consultant.....	99.25	
01 45 23 00-0119 HR Certified Industrial Radiography Radiation Safety Personnel	110.02	
01 45 23 00-0120 Concrete Slab Moisture Testing (01 45 23 00-0099)		
01 45 23 00-0121 EA Concrete Slab, Moisture Emission Determination For Floor Covering On Existing Concrete.....	166.88	

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 45 29 Testing Laboratory Services (01 45)

Note: For application to existing materials/site conditions or additional testing over specifications stated tests.

01 45 29 00-0001 Soil Borings Laboratory Tests (01 45 29)

See CSI section 02 32 13 00-0000 for soil borings.

01 45 29 00-0002	EA	Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	161.19
01 45 29 00-0003	EA	Shrinkage Limit, Soil Borings Laboratory Test.....	51.43
01 45 29 00-0004	EA	Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....	124.00
01 45 29 00-0005	EA	Consolidation, Soil Borings Laboratory Test.....	867.96
01 45 29 00-0006	EA	Swell Test, Soil Borings Laboratory Test.....	136.08
01 45 29 00-0007	EA	In Place Density, Soil Borings Laboratory Test.....	37.20
01 45 29 00-0008	EA	Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....	23.11
01 45 29 00-0009	EA	Hydrometer Analysis, Soil Borings Laboratory Test.....	298.36
01 45 29 00-0010	EA	Specific Gravity, ASTM D854, Soil Borings Laboratory Test.....	104.02
01 45 29 00-0011	EA	Partial Sieve Analysis, Soil Borings Laboratory Test.....	20.57
01 45 29 00-0012	EA	Laboratory Permeability, Soil Borings Laboratory Test.....	1,028.53
01 45 29 00-0013	EA	Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	208.04
01 45 29 00-0014	EA	Sulfate Soundness, Soil Borings Laboratory Test.....	257.13
01 45 29 00-0015	EA	Los Angeles Abrasion, Soil Borings Laboratory Test.....	475.98
01 45 29 00-0016	EA	Soil Bearing Ratio, ASTM D1883.....	526.77
01 45 29 00-0017	EA	Compaction Test Subgrade, Soil Borings Laboratory Test.....	154.28
01 45 29 00-0018	EA	Compaction Test Base Course, Soil Borings Laboratory Test.....	171.42
01 45 29 00-0019	EA	In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	367.92
01 45 29 00-0020	EA	Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	78.85

01 50 Temporary Facilities and Controls (01)

Note: Tasks in this section shall be used as directed by owner.

01 51 Temporary Utilities (01 50)**01 51 13 Temporary Electricity** (01 51)**01 51 13 00-0001 Temporary Service Switch And/or Building Feeder Switch** (01 51 13)

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 30 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses.....	966.73
01 51 13 00-0003	EA	Temporary 60 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses.....	1,230.81
01 51 13 00-0004	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....	1,593.09
01 51 13 00-0005	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....	2,487.24
01 51 13 00-0006	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	4,506.91
01 51 13 00-0007	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	7,244.96
01 51 13 00-0008	EA	Temporary 800 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	9,780.82
01 51 13 00-0009	EA	Temporary 1,200 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	15,684.88
01 51 13 00-0010	EA	Temporary 2,000 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	21,832.43

01 51 13 00-0011 Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses (01 51 13)

Note: Includes mounting on wall and removal after use.

01 51 13 00-0012	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,588.39
01 51 13 00-0013	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,278.93
01 51 13 00-0014	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,549.16
01 51 13 00-0015	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,139.28

01 51 13 00-0016 Temporary Conduit And Cable For Temporary Disconnect (Safety) Switches And Temporary Panelboards (01 51 13)

Note: Includes all connections, fittings, supports and removal after use.

01 51 13 00-0017	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards.....	12.50
01 51 13 00-0018	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards.....	13.69

01 51 26 Temporary Lighting (01 51)**01 51 26 00-0001 Temporary Lighting Devices** (01 51 26)

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light.....	349.75
01 51 26 00-0003	EA	Temporary 10 Light String With Cages.....	123.88
01 51 26 00-0004	EA	Temporary High Bay Light.....	461.63

01 52 Construction Facilities (01 50)

Note: Tasks in this section shall be used as directed by owner for owner's use.

01 52 13 Field Offices and Sheds (01 52)**01 52 13 00-0001 Field Offices and Office Trailers** (01 52 13)

Note: Includes toilet, central HVAC, interior doors and partitions. Excludes furniture, utility connections, or service. For Loss Damage Waiver or General Liability Insurance when requested use Reimbursable Fees. Minimum 6 months rental. See CSI section 01 52 13 00-0015 for furniture, skirting, and steps.



General Requirements		01	Σ
Temporary Facilities and Controls		01 50	
Construction Facilities		01 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0002 MO 8' x 24' Mobile Office, With Toilet.....	259.19	
For Each Delivery And Removal, Two Round Trips, Add	1,553.97	
For Each Set-up (Block And Level), Add	854.73	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	800.55	
For Office Trailer Without Toilet, Deduct	-51.84	
01 52 13 00-0003 MO 8' x 32' Mobile Office, With Toilet.....	293.74	
For Each Delivery And Removal, Two Round Trips, Add	1,553.97	
For Each Set-up (Block And Level), Add	854.73	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	800.55	
For Office Trailer Without Toilet, Deduct	-58.75	
01 52 13 00-0004 MO 10' x 36' Mobile Office, With Toilet.....	397.42	
For Each Delivery And Removal, Two Round Trips, Add	3,107.94	
For Each Set-up (Block And Level), Add	1,341.73	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	1,204.24	
For Office Trailer Without Toilet, Deduct	-79.48	
01 52 13 00-0005 MO 10' x 40' Mobile Office, With Toilet.....	423.34	
For Each Delivery And Removal, Two Round Trips, Add	3,107.94	
For Each Set-up (Block And Level), Add	1,341.73	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	1,204.24	
For Office Trailer Without Toilet, Deduct	-84.67	
01 52 13 00-0006 MO 10' x 44' Mobile Office, With Toilet.....	466.54	
For Each Delivery And Removal, Two Round Trips, Add	3,107.94	
For Each Set-up (Block And Level), Add	1,341.73	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	1,204.24	
01 52 13 00-0007 MO 10' x 50' Mobile Office, With Toilet.....	492.46	
For Each Delivery And Removal, Two Round Trips, Add	3,107.94	
For Each Set-up (Block And Level), Add	1,341.73	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	1,204.24	
01 52 13 00-0008 MO 12' x 32' Mobile Office, With Toilet.....	400.05	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	1,204.24	
For Each Delivery And Removal, Two Round Trips, Add	764.29	
For Each Set-up (Block And Level), Add	596.40	
01 52 13 00-0009 MO 12' x 44' Mobile Office, With Toilet.....	534.86	
For Each Delivery And Removal, Two Round Trips, Add	3,107.94	
For Each Set-up (Block And Level), Add	1,341.73	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	1,204.24	
01 52 13 00-0010 MO 12' x 50' Mobile Office, With Toilet.....	636.73	
For Each Delivery And Removal, Two Round Trips, Add	3,107.94	
For Each Set-up (Block And Level), Add	1,341.73	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	1,204.24	
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	880.37	
For Each Delivery And Removal, Two Round Trips, Add	3,107.94	
For Each Set-up (Block And Level), Add	1,341.73	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	1,204.24	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet.....	1,382.32	
For Each Delivery And Removal, Two Round Trips, Add	4,661.92	
For Each Set-Up (Block And Level), Add	2,397.04	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	2,401.66	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,658.78	
For Each Delivery And Removal, Two Round Trips, Add	4,661.92	
For Each Set-Up (Block And Level), Add	2,397.04	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	2,401.66	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	867.19	
For Each Delivery And Removal, Two Round Trips, Add	4,661.92	
For Each Set-Up (Block And Level), Add	2,397.04	
For Each Anchoring Into Dirt, Add Per Each Anchor	238.57	
For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	332.78	
For Knockdown, Add	2,401.66	

01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)
Note: Costs includes installation or placement in trailer.

01	General Requirements
01 50	Temporary Facilities and Controls
01 52	Construction Facilities



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0016	MO	Desk For Field Office Trailer.....	42.28	
01 52 13 00-0017	MO	Rolling Desk Chair For Field Office Trailer.....	26.42	
01 52 13 00-0018	MO	File Cabinet For Field Office Trailer.....	31.71	
01 52 13 00-0019	MO	Table For Field Office Trailer.....	21.14	
01 52 13 00-0020	MO	Folding Chair For Field Office Trailer.....	10.01	
01 52 13 00-0021	EA	Phone Hook-Up For Field Office Trailer.....	116.26	
01 52 13 00-0022	MO	Local Hardwired Phone or Data Service Per Phone Line For Field Office Trailer.....	84.55	
01 52 13 00-0023	MO	Security System With Monitoring For Field Office Trailer.....	133.21	
01 52 13 00-0024	LF	Perimeter Trailer Vinyl Skirting For Field Office Trailer.....	16.59	
01 52 13 00-0025	LF	Insulated Perimeter Trailer Vinyl Skirting For Field Office Trailer.....	39.29	
01 52 13 00-0026	MO	Steps For Field Office Trailer.....	73.50	
01 52 13 00-0027	MO	Steps With Canopy For Field Office Trailer.....	122.81	
01 52 13 00-0028	MO	Fax Machine For Field Office Trailer.....	45.30	
01 52 13 00-0029	MO	Copier For Field Office Trailer.....	84.55	
01 52 13 00-0030		Storage Containers (01 52 13)		
01 52 13 00-0031	MO	8' x 8' x 10' Storage Container.....	144.00	
		For Each Delivery And Removal, Two Round Trips, Add.....	120.17	
		For >12 Months, Deduct.....	-32.40	
01 52 13 00-0032	MO	8' x 8' x 20' Storage Container.....	150.55	
		For Each Delivery And Removal, Two Round Trips, Add.....	132.19	
		For >12 Months, Deduct.....	-33.87	
01 52 13 00-0033	MO	8' x 8' x 40' Storage Container.....	178.04	
		For Each Delivery And Removal, Two Round Trips, Add.....	266.23	
		For >12 Months, Deduct.....	-40.06	
01 52 19		Sanitary Facilities (01 52)		
01 52 19 00-0001		Portable Toilets (01 52 19)		
		Note: Includes servicing once per week (unless task states otherwise).		
01 52 19 00-0002	WK	Portable Chemical Toilet.....	70.96	
		For Each Additional Servicing Per Unit Per Week, Add.....	25.00	
		For Each Delivery And Set-up, Add.....	49.05	
01 52 19 00-0003	MO	Portable Chemical Toilet.....	212.88	
		For Each Additional Servicing Per Unit Per Week, Add.....	25.00	
		For Each Delivery And Set-up, Add.....	49.05	
01 52 19 00-0004	WK	Americans With Disabilities Act Compliant Portable Chemical Toilet.....	84.64	
		For Each Additional Servicing Per Unit Per Week, Add.....	25.00	
		For Each Delivery And Set-up, Add.....	49.05	
01 52 19 00-0005	MO	Americans With Disabilities Act Compliant Portable Chemical Toilet.....	248.36	
		For Each Additional Servicing Per Unit Per Week, Add.....	25.00	
		For Each Delivery And Set-up, Add.....	49.05	
01 52 19 00-0006	WK	Two Station Portable Handwash.....	57.87	
		For Each Delivery And Set-up, Add.....	49.05	
01 52 19 00-0007	MO	Two Station Portable Handwash.....	175.53	
		For Each Delivery And Set-up, Add.....	49.05	
01 52 19 00-0008	MO	6 Station, Portable Toilets, Multi Trailer.....	6,431.04	
		Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink). Excludes servicing.		
		For Each Delivery, Set-up And Removal, Two Round Trips, Add.....	1,243.18	
01 52 19 00-0009	WK	Service 6 Station Trailer Restrooms, 3 Times Per Week.....	2,158.86	
		For One Additional Service Per Week, Add.....	719.62	
		Note: For one less service per week, UOM to be negative one (-1)		
01 53		Temporary Construction (01 50)		
01 53 16		Temporary Decking (01 53)		
01 53 16 00-0001		Temporary Walkways And Railings (01 53 16)		
		Note: Includes removal after use.		
01 53 16 00-0002	SF	Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers.....	8.81	
01 53 16 00-0003	LF	Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail.....	40.35	
01 53 16 00-0004	LF	Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	16.27	
01 53 16 00-0005	RSR	Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	30.07	
01 53 23		Temporary Ramps (01 53)		
01 53 23 00-0001		Temporary Plywood For Wheel Barrow Access (01 53 23)		
		Note: Includes removal after use.		
01 53 23 00-0002	SF	Temporary Plywood For Wheel Barrow Access.....	1.91	0.61
01 54		Construction Aids (01 50)		
01 54 09		Personnel Protection Equipment (01 54)		



General Requirements			01
Temporary Facilities and Controls			01 50
Construction Aids			01 54

Σ

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 09 00-0001 Personnel Protection Equipment (01 54 09) Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.		
01 54 09 00-0002 NTE Personnel Protection Equipment Note: For specification publishing. Review specifications for requirements.	0.00	
01 54 23 Temporary Scaffolding and Platforms (01 54)		
01 54 23 00-0001 Scaffolding (01 54 23) Note: Additional scaffolding rental for work above the normal working height.		
01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.		
01 54 23 00-0003 CCF Scaffolding With Bracing Accessories, Area Based On 5' Wide Sections, Per CCF / Month For Up To 25, Add For >25 To 50, Add For >50 To 150, Add	44.55 17.82 11.14 4.46	
01 54 23 00-0004 CCF Scaffolding With Bracing Accessories, Area Based On 4' Wide Sections, Per CCF / Month For Up To 25, Add For >25 To 50, Add For >50 To 150, Add	50.10 20.04 12.53 5.01	
01 54 23 00-0005 CCF Scaffolding With Bracing Accessories, Area Based On 3' Wide Sections, Per CCF / Month For Up To 25, Add For >25 To 50, Add For >50 To 150, Add	66.83 26.73 16.71 6.68	
01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001) Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.		
01 54 23 00-0007 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	54.80	
01 54 23 00-0008 CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	71.86	
01 54 23 00-0009 CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	95.90	
01 54 23 00-0010 CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	105.48	
01 54 23 00-0011 CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	121.47	
01 54 23 00-0012 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set-up On Stairs, Per CCF Of Scaffolding And Accessories	76.71	
01 54 23 00-0013 Heavy-Duty Masonry Scaffolding Rental - Rental Only (01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0014 CCF Heavy-Duty Masonry Scaffolding With Bracing Accessories, Area Based On 4' Wide Sections, Per CCF / Month	72.22	
01 54 23 00-0015 CCF Heavy-Duty Masonry Scaffolding With Bracing Accessories, Area Based On 2' Wide Sections, Per CCF / Month	132.41	
01 54 23 00-0016 LF Aluminum Joists, Per LF / Month	11.74	
01 54 23 00-0017 LF Aluminum Stringers, Per LF / Month	16.84	
01 54 23 00-0018 EA Screw Jack With U-Plate For Stringers, Per EA / Month	21.22	
01 54 23 00-0019 Heavy-Duty Masonry Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001) Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.		
01 54 23 00-0020 CCF Up To 20' Height Heavy-Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	102.29	
01 54 23 00-0021 CCF >20' To 40' Height Heavy-Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	127.86	
01 54 23 00-0022 CCF >40' To 60' Height Heavy-Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	153.44	
01 54 23 00-0023 CCF >60' To 80' Height Heavy-Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	166.22	
01 54 23 00-0024 CCF >80' Height Heavy-Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	185.40	
01 54 23 00-0025 Scaffolding Accessories (01 54 23 00-0001) See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0026 CSF Netting for Exterior Building Scaffolding Note: Includes removal after use.	45.25	
01 54 23 00-0027 Rolling Scaffolding (01 54 23) Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.		
01 54 23 00-0028 DAY >14' To 20' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.....	14.33	

01	General Requirements
01 50	Temporary Facilities and Controls
01 54	Construction Aids



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0029 WK >14' To 20' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.....	57.42	
01 54 23 00-0030 MO >14' To 20' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.....	229.65	
01 54 23 00-0031 DAY >20' To 40' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.....	23.99	
01 54 23 00-0032 WK >20' To 40' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.....	96.07	
01 54 23 00-0033 MO >20' To 40' Height, 5' Wide X 7' Long Section, Rolling Scaffolding, Complete With Wheels, Railings, etc.....	384.33	
01 54 23 00-0034 EA >14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	120.00	
01 54 23 00-0035 EA >20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	150.01	
01 54 23 00-0036 Shoring Posts (01 54 23)		
01 54 23 00-0037 DAY 6'-6" To 11' Extension, 5,000 Lb. Capacity, Steel Shoring Post.....	2.21	
01 54 23 00-0038 WK 6'-6" To 11' Extension, 5,000 Lb. Capacity, Steel Shoring Post.....	8.82	
01 54 23 00-0039 MO 6'-6" To 11' Extension, 5,000 Lb. Capacity, Steel Shoring Post.....	26.47	
01 54 23 00-0040 EA Initial Erection And Final Dismantling For Each Shoring Post.....	9.61	
For >20 To 50, Deduct	-1.44	
For >50 To 100, Deduct	-3.36	
For >100, Deduct	-5.29	
01 54 23 00-0041 Temporary Lumber, Single Use (01 54 23)		
Note: Includes removal after use.		
01 54 23 00-0042 SF 5/16" CD Grade Plywood, Temporary Lumber.....	2.98	
01 54 23 00-0043 SF 1/2" CD Grade Plywood, Temporary Lumber.....	3.39	
01 54 23 00-0044 SF 5/8" CD Grade Plywood, Temporary Lumber.....	3.69	
01 54 23 00-0045 SF 3/4" CD Grade Plywood, Temporary Lumber.....	4.04	
01 54 23 00-0046 SF 1" CD Grade Plywood, Temporary Lumber.....	5.86	
01 54 23 00-0047 LF 2" x 4" Temporary Lumber.....	3.52	
01 54 23 00-0048 LF 2" x 6" Temporary Lumber.....	4.36	
01 54 23 00-0049 LF 2" x 8" Temporary Lumber.....	5.22	
01 54 23 00-0050 LF 2" x 10" Temporary Lumber.....	6.07	
01 54 23 00-0051 LF 2" x 12" Temporary Lumber.....	6.93	
01 54 23 00-0052 LF 3" x 8" Temporary Lumber.....	6.93	
01 54 23 00-0053 LF 3" x 10" Temporary Lumber.....	8.20	
01 54 23 00-0054 LF 3" x 12" Temporary Lumber.....	9.49	
01 54 23 00-0055 LF 4" x 4" Temporary Lumber.....	4.51	
01 54 23 00-0056 LF 4" x 6" Temporary Lumber.....	6.32	
01 54 23 00-0057 LF 6" x 6" Temporary Lumber.....	8.14	
01 54 23 00-0058 LF 6" x 8" Temporary Lumber.....	10.52	
01 54 23 00-0059 LF 12" x 12" Temporary Lumber.....	24.46	
01 54 23 00-0060 Temporary Precast Concrete Blocks (01 54 23)		
Note: Includes removal after use.		
01 54 23 00-0061 EA 2' x 2' x 2' Temporary Precast Concrete (Ecology) Block	131.83	
Note: Includes removal after use.		
01 54 23 00-0062 EA 2' x 2' x 4' Temporary Precast Concrete (Ecology) Block	164.80	
Note: Includes removal after use.		
01 54 23 00-0063 EA 2' x 2' x 8' Temporary Precast Concrete (Ecology) Block	215.77	
Note: Includes removal after use.		
01 54 26 Temporary Swing Staging (01 54)		
Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001 Swing Stage (01 54 26)		
Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002 MO 7' Swing Stage, Electric Operated	3,174.68	
01 54 26 00-0003 MO 10' Swing Stage, Electric Operated	3,333.41	
01 54 26 00-0004 MO 14' Swing Stage, Electric Operated	3,492.14	
01 54 26 00-0005 MO 20' Swing Stage, Electric Operated	3,650.88	
01 54 26 00-0006 MO 24' Swing Stage, Electric Operated	3,809.61	
01 54 26 00-0007 MO 30' Swing Stage, Electric Operated	3,968.35	
01 54 26 00-0008 MO 42' Swing Stage, Electric Operated	4,127.08	
01 54 26 00-0009 MO 12' Swing Stage, Manually Operated	915.47	
01 54 26 00-0010 MO 24' Swing Stage, Manually Operated	1,144.33	
01 54 26 00-0011 EA Swing Stage Platform From Hooks, Erection And Dismantling	5,115.36	
Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.		
01 54 26 00-0012 EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	7,108.67	
Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.		
01 54 26 00-0013 EA Move Swing Stage Platform From Hooks To Different Location At Same Roof	2,689.77	
01 54 26 00-0014 EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof	3,746.46	

01 55 Vehicular Access and Parking (01 50)

01 55 23 Temporary Roads (01 55)

01 55 23 00-0001 Temporary Stabilized Construction Entrance (01 55 23)

Note: As per Caltrans detail.



General Requirements			01	Σ
Temporary Facilities and Controls			01 50	
Vehicular Access and Parking			01 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.	4.58	
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.	5.60	
01 55 23 00-0004 Rumble Trench Plate (01 55 23)		
01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental	424.02	
01 55 23 00-0006 EA Placement And Removal Of Rumble Plate Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	105.33	
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate..... Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	26.33	
01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23) Note: Excludes asphalt and gravel.		
01 55 23 00-0009 EA 4" Diameter Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	5,217.18	239.48
01 55 23 00-0010 EA 6" Diameter Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	7,104.74	359.22
01 55 23 00-0011 EA 8" Diameter Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	9,816.33	478.95
01 55 23 00-0012 EA 12" Diameter Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	20,356.31	598.69
01 55 23 00-0013 EA 24" Diameter Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin)	29,866.23	718.43
01 55 26 Traffic Control (01 55)		
01 55 26 00-0001 Temporary Removable Preformed Traffic Black Line Mask (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask	5.56	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask	6.71	
01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape.....	5.62	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape.....	7.67	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape.....	9.61	
01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines Note: Includes removal after use	2.63	
For Not Removed, Deduct	-1.79	
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines Note: Includes removal after use	3.48	
For Not Removed, Deduct	-2.42	
01 55 26 00-0011 LF 8" Temporary Painted Traffic Lines Note: Includes removal after use	4.36	
For Not Removed, Deduct	-3.06	
01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.63	
01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.67	
01 55 26 00-0014 Temporary Pedestrian Traffic Control (01 55 26)		
01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	11.65	
01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	15.29	
01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	9.05	
01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	11.12	
01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent	12.14	
01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent	16.74	
01 55 26 00-0021 CLF 1" Exterior Vinyl Warning Tape.....	13.89	
01 55 26 00-0022 CLF 2" Exterior Vinyl Warning Tape.....	19.53	
01 55 26 00-0023 CLF 3" Exterior Vinyl Warning Tape.....	24.62	
01 55 26 00-0024 CLF 4" Exterior Vinyl Warning Tape.....	28.79	
01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26) Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026 LF 4" Linear Delineation System.....	12.02	
01 55 26 00-0027 LF 6" Linear Delineation System.....	16.26	
01 55 26 00-0028 Temporary Traffic Protection (01 55 26)		
01 55 26 00-0029 Temporary Portable Traffic Control Device Usage (01 55 26 00-0028) Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0150 for Initial delivery, placement and final removal of temporary traffic devices, 01 55 26 00-0166 for daily (or as needed) placement and removal of temporary traffic devices.		
01 55 26 00-0030 DAY 28" Cone With Reflective Collar.....	0.91	

01	General Requirements
01 50	Temporary Facilities and Controls
01 55	Vehicular Access and Parking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0031 WK 28" Cone With Reflective Collar	2.73	
01 55 26 00-0032 MO 28" Cone With Reflective Collar	8.19	
01 55 26 00-0033 DAY 36" Traffic Cone With Reflective Collar	1.14	
01 55 26 00-0034 WK 36" Traffic Cone With Reflective Collar	3.41	
01 55 26 00-0035 MO 36" Traffic Cone With Reflective Collar	10.24	
01 55 26 00-0036 DAY Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post	2.14	
01 55 26 00-0037 WK Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post	6.43	
01 55 26 00-0038 MO Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post	19.30	
01 55 26 00-0039 DAY Vertical Panel	2.75	
01 55 26 00-0040 WK Vertical Panel	8.25	
01 55 26 00-0041 MO Vertical Panel	24.75	
01 55 26 00-0042 DAY Channelizer Drum	2.99	
01 55 26 00-0043 WK Channelizer Drum	8.96	
01 55 26 00-0044 MO Channelizer Drum	26.87	
01 55 26 00-0045 DAY Stackable Channelizer Panel	1.41	
01 55 26 00-0046 WK Stackable Channelizer Panel	4.24	
01 55 26 00-0047 MO Stackable Channelizer Panel	12.71	
01 55 26 00-0048 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side	1.95	
01 55 26 00-0049 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side	5.86	
01 55 26 00-0050 MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side	17.59	
01 55 26 00-0051 DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	4.33	
01 55 26 00-0052 WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	13.00	
01 55 26 00-0053 MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	39.00	
01 55 26 00-0054 DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails	4.94	
01 55 26 00-0055 WK Type III Barricade, Up To 5' Wide With Three Reflective Rails	14.81	
01 55 26 00-0056 MO Type III Barricade, Up To 5' Wide With Three Reflective Rails	44.44	
01 55 26 00-0057 DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails	9.03	
01 55 26 00-0058 WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails	27.10	
01 55 26 00-0059 MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails	81.30	
01 55 26 00-0060 DAY Up To 10' Wide A Frame Barricade	4.95	
01 55 26 00-0061 WK Up To 10' Wide A Frame Barricade	14.86	
01 55 26 00-0062 MO Up To 10' Wide A Frame Barricade	44.59	
01 55 26 00-0063 DAY Type A Or C Flasher	1.01	
01 55 26 00-0064 WK Type A Or C Flasher	3.03	
01 55 26 00-0065 MO Type A Or C Flasher	9.09	
01 55 26 00-0066 DAY Type B High Intensity Flasher	5.48	
01 55 26 00-0067 WK Type B High Intensity Flasher	16.43	
01 55 26 00-0068 MO Type B High Intensity Flasher	49.30	
01 55 26 00-0069 Temporary Traffic Barriers Usage (01 55 26 00-0028)		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0150 for delivery, placing and removal.		
01 55 26 00-0070 DAY 6' Long Portable Parking Curbs	2.36	
01 55 26 00-0071 WK 6' Long Portable Parking Curbs	7.08	
01 55 26 00-0072 MO 6' Long Portable Parking Curbs	21.23	
01 55 26 00-0073 DAY 6' Long Portable Speed Bumps	6.98	
01 55 26 00-0074 WK 6' Long Portable Speed Bumps	20.95	
01 55 26 00-0075 MO 6' Long Portable Speed Bumps	62.84	
01 55 26 00-0076 DAY 8' To 12.5' Concrete Traffic Barrier	16.77	
01 55 26 00-0077 WK 8' To 12.5' Concrete Traffic Barrier	50.32	
01 55 26 00-0078 MO 8' To 12.5' Concrete Traffic Barrier	150.96	
01 55 26 00-0079 DAY >12.5' To 20' Concrete Traffic Barrier	33.55	
01 55 26 00-0080 WK >12.5' To 20' Concrete Traffic Barrier	100.64	
01 55 26 00-0081 MO >12.5' To 20' Concrete Traffic Barrier	301.92	
01 55 26 00-0082 DAY 6' x 32" Tall Plastic Water Barrier	20.03	
01 55 26 00-0083 WK 6' x 32" Tall Plastic Water Barrier	60.09	
01 55 26 00-0084 MO 6' x 32" Tall Plastic Water Barrier	180.27	
01 55 26 00-0085 DAY 6' x 46" Tall Plastic Water Barrier	28.60	
01 55 26 00-0086 WK 6' x 46" Tall Plastic Water Barrier	85.80	
01 55 26 00-0087 MO 6' x 46" Tall Plastic Water Barrier	257.41	
01 55 26 00-0088 DAY Sand Filled Crash Attenuator Barrels	11.19	
01 55 26 00-0089 WK Sand Filled Crash Attenuator Barrels	33.58	
01 55 26 00-0090 MO Sand Filled Crash Attenuator Barrels	100.75	
01 55 26 00-0091 MO Rolling Straight Concrete Barrier, Per Each Barrier Per Month	3,719.85	
01 55 26 00-0092 MO Rolling Absorbing Concrete Barrier, Per Each Barrier Per Month	1,487.94	
01 55 26 00-0093 MO Rolling Transition Concrete Barrier, Per Each Barrier Per Month	396.78	
01 55 26 00-0094 EA 2 Bay, Non-Gating, Redirecive Crash Cushion System, Test Level 2 (44 MPH), 24" Wide	6,922.93	
Note: Includes delivery, pickup and two months rental.		
01 55 26 00-0095 MO 2 Bay, Non-Gating, Redirecive Crash Cushion System, Test Level 2 (44 MPH), 24" Wide	656.49	
Note: Rental rate after 1st two months.		
01 55 26 00-0096 EA 5 Bay, Non-Gating, Redirecive Crash Cushion System, Test Level 3 (62 MPH), 24" Wide	8,305.51	
Note: Includes delivery, pickup and two months rental.		
01 55 26 00-0097 MO 5 Bay, Non-Gating, Redirecive Crash Cushion System, Test Level 3 (62 MPH), 24" Wide	984.74	
Note: Rental rate after 1st two months.		
01 55 26 00-0098 EA 8 Bay, Non-Gating, Redirecive Crash Cushion System, Test Level 3 (71 MPH), 24" Wide	10,125.75	
Note: Includes delivery, pickup and two months rental.		
01 55 26 00-0099 MO 8 Bay, Non-Gating, Redirecive Crash Cushion System, 71 MPH, 24" Wide	1,203.56	
Note: Rental rate after 1st two months.		
01 55 26 00-0100 MO 24" Wide x 32" High x 32" Long, Anchorless Water Filler, Non-Redirecive, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER)	1,588.72	
Note: Consists of 8 bays with nose piece at the front of the system.		



General Requirements			01
Temporary Facilities and Controls			01 50
Vehicular Access and Parking			01 55

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 55 26 00-0101

Temporary Portable Signs And Message Displays Usage (01 55 26 00-0028)

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0150 for delivery, placing and removal.

01 55 26 00-0102	DAY	Mesh Or Vinyl Roll-up Sign With Stand	8.79
01 55 26 00-0103	WK	Mesh Or Vinyl Roll-up Sign With Stand	26.37
01 55 26 00-0104	MO	Mesh Or Vinyl Roll-up Sign With Stand	79.10
01 55 26 00-0105	DAY	18" x 18" Aluminum Construction Sign, With Portable Stand	3.45
01 55 26 00-0106	WK	18" x 18" Aluminum Construction Sign, With Portable Stand	10.35
01 55 26 00-0107	MO	18" x 18" Aluminum Construction Sign, With Portable Stand	31.05
01 55 26 00-0108	DAY	30" x 24" Aluminum Construction Sign, With Portable Stand	4.79
01 55 26 00-0109	WK	30" x 24" Aluminum Construction Sign, With Portable Stand	14.37
01 55 26 00-0110	MO	30" x 24" Aluminum Construction Sign, With Portable Stand	43.10
01 55 26 00-0111	DAY	30" x 30" Aluminum Construction Sign, With Portable Stand	4.24
01 55 26 00-0112	WK	30" x 30" Aluminum Construction Sign, With Portable Stand	12.72
01 55 26 00-0113	MO	30" x 30" Aluminum Construction Sign, With Portable Stand	38.16
01 55 26 00-0114	DAY	48" x 18" Aluminum Construction Sign, With Portable Stand	5.24
01 55 26 00-0115	WK	48" x 18" Aluminum Construction Sign, With Portable Stand	15.71
01 55 26 00-0116	MO	48" x 18" Aluminum Construction Sign, With Portable Stand	47.14
01 55 26 00-0117	DAY	48" x 24" Aluminum Construction Sign, With Portable Stand	6.14
01 55 26 00-0118	WK	48" x 24" Aluminum Construction Sign, With Portable Stand	18.41
01 55 26 00-0119	MO	48" x 24" Aluminum Construction Sign, With Portable Stand	55.22
01 55 26 00-0120	DAY	48" x 30" Aluminum Construction Sign, With Portable Stand	7.03
01 55 26 00-0121	WK	48" x 30" Aluminum Construction Sign, With Portable Stand	21.10
01 55 26 00-0122	MO	48" x 30" Aluminum Construction Sign, With Portable Stand	63.30
01 55 26 00-0123	DAY	48" x 36" Aluminum Construction Sign, With Portable Stand	7.93
01 55 26 00-0124	WK	48" x 36" Aluminum Construction Sign, With Portable Stand	23.79
01 55 26 00-0125	MO	48" x 36" Aluminum Construction Sign, With Portable Stand	71.38
01 55 26 00-0126	DAY	48" x 48" Aluminum Construction Sign, With Portable Stand	9.73
01 55 26 00-0127	WK	48" x 48" Aluminum Construction Sign, With Portable Stand	29.18
01 55 26 00-0128	MO	48" x 48" Aluminum Construction Sign, With Portable Stand	87.55
01 55 26 00-0129	DAY	60" x 24" Aluminum Construction Sign, With Portable Stand	9.58
01 55 26 00-0130	WK	60" x 24" Aluminum Construction Sign, With Portable Stand	28.73
01 55 26 00-0131	MO	60" x 24" Aluminum Construction Sign, With Portable Stand	86.20
01 55 26 00-0132	DAY	60" x 30" Aluminum Construction Sign, With Portable Stand	10.70
01 55 26 00-0133	WK	60" x 30" Aluminum Construction Sign, With Portable Stand	32.10
01 55 26 00-0134	MO	60" x 30" Aluminum Construction Sign, With Portable Stand	96.30
01 55 26 00-0135	DAY	60" x 36" Aluminum Construction Sign, With Portable Stand	11.82
01 55 26 00-0136	WK	60" x 36" Aluminum Construction Sign, With Portable Stand	35.47
01 55 26 00-0137	MO	60" x 36" Aluminum Construction Sign, With Portable Stand	106.40
01 55 26 00-0138	DAY	Aluminum Sign And Post	4.97
01 55 26 00-0139	WK	Aluminum Sign And Post	14.91
01 55 26 00-0140	MO	Aluminum Sign And Post	44.74
01 55 26 00-0141	DAY	Trailer Mounted Flashing Arrow Board	155.33
01 55 26 00-0142	WK	Trailer Mounted Flashing Arrow Board	429.92
01 55 26 00-0143	MO	Trailer Mounted Flashing Arrow Board	1,137.22
01 55 26 00-0144	DAY	Trailer Mounted Portable Variable Message Sign (PVMS)	297.66
01 55 26 00-0145	WK	Trailer Mounted Portable Variable Message Sign (PVMS)	793.76
01 55 26 00-0146	MO	Trailer Mounted Portable Variable Message Sign (PVMS)	1,587.52
01 55 26 00-0147	DAY	Two Head, Trailer Mounted Traffic Signal System, Per Set Of Two	1,495.13
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.			
01 55 26 00-0148	WK	Two Head, Trailer Mounted Traffic Signal System, Per Set Of Two	4,485.39
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.			
01 55 26 00-0149	MO	Two Head, Trailer Mounted Traffic Signal System, Per Set Of Two	13,456.17
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.			

01 55 26 00-0150

Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Protection Using Truck (01 55 26 00-0028)

Note: Includes delivery and return up to 15 miles. See CSI section 01 55 26 00-0166 for daily (or as needed) placement and removal of temporary traffic devices, 01 74 19 00-0043 for delivery >15 miles.

01 55 26 00-0151	EA	Initial Delivery, Placement And Final Removal From Site Of Up To 250 Temporary Traffic Cones Using Truck	4.14
01 55 26 00-0152	EA	Initial Delivery, Placement And Final Removal From Site Of >250 Temporary Traffic Cones Using Truck	3.63
01 55 26 00-0153	EA	Initial Delivery, Placement And Final Removal From Site Of Up To 250 Temporary Traffic Panels/Channelizers Using Truck	6.83
01 55 26 00-0154	EA	Initial Delivery, Placement And Final Removal From Site Of >250 Temporary Traffic Panels/Channelizers Using Truck	5.69
01 55 26 00-0155	EA	Initial Delivery, Placement And Final Removal From Site Of Up To 250 Temporary Traffic Barricades Using Truck	10.35
01 55 26 00-0156	EA	Initial Delivery, Placement And Final Removal From Site Of >250 Temporary Traffic Barricades Using Truck	8.28
01 55 26 00-0157	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Curbs/Speed Bumps Using Truck	10.35
01 55 26 00-0158	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Portable Sign And Stand Using Truck	6.21
01 55 26 00-0159	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Aluminum Sign And Post Using Truck	25.87
01 55 26 00-0160	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Trailer Mounted Boards And Signals Using Truck	77.61

01	General Requirements
01 50	Temporary Facilities and Controls
01 55	Vehicular Access and Parking



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0161	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary 8' To 12.5' Concrete Traffic Barrier Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	105.33	
		For 1 Barrier, Add	263.33	
		For 2 Barriers, Add	94.80	
		For 3 Barriers, Add	31.60	
01 55 26 00-0162	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary >12.5' To 20' Concrete Traffic Barrier Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	158.01	
		For 1 Barrier, Add	395.03	
		For 2 Barriers, Add	142.21	
		For 3 Barriers, Add	47.40	
01 55 26 00-0163	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Plastic Water Barrier Note: Includes additional water as needed. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for Equipment Usage, 01 71 13 00-0000 for mobilization tasks.	60.33	
		For 1 Barrier, Add	131.68	
		For 2 Barriers, Add	47.40	
		For 3 Barriers, Add	15.80	
01 55 26 00-0164	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic Crash Attenuator Barrels..... Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	79.00	
		For 1 Barrier, Add	197.50	
		For 2 Barriers, Add	71.10	
		For 3 Barriers, Add	23.70	
01 55 26 00-0165	EA	Initial Delivery, Placement And Final Removal From Site Of Temporary Traffic 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non-Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER)..... Note: Consists of 8 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.	579.36	
01 55 26 00-0166		Placement And Remove Temporary Traffic Protection From Roadside Or Work Area (Daily Or As Required) (01 55 26 00-0028)		
01 55 26 00-0167	EA	Placement And Removal Of Up To 250 Temporary Traffic Cones By Hand From Roadside Or Work Area.....	2.58	
01 55 26 00-0168	EA	Placement And Removal Of >250 Temporary Traffic Cones By Hand From Roadside Or Work Area	2.07	
01 55 26 00-0169	EA	Placement And Removal Of Up To 250 Temporary Traffic Panels/Channelizers By Hand From Roadside Or Work Area	3.45	
01 55 26 00-0170	EA	Placement And Removal Of >250 Temporary Traffic Panels/Channelizers By Hand From Roadside Or Work Area	2.74	
01 55 26 00-0171	EA	Placement And Removal Of Up To 250 Temporary Traffic Barricades By Hand From Roadside Or Work Area	5.18	
01 55 26 00-0172	EA	Placement And Removal Of >250 Temporary Traffic Barricades By Hand From Roadside Or Work Area	4.14	
01 55 26 00-0173	EA	Placement And Removal Of Temporary Traffic Portable Sign And Stand From Roadside Or Work Area	3.08	
01 55 26 00-0174	EA	Placement And Removal Of Temporary Traffic Trailer Mounted Boards And Signals From Roadside Or Work Area.....	38.81	
01 55 26 00-0175	EA	Relocation Of Temporary Traffic Concrete Traffic Barrier From Roadside Or Work Area..... Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	52.67	
01 55 26 00-0176		Place And Remove Temporary Signs For Detours (01 55 26 00-0028)		
01 55 26 00-0177		Temporary Reflectorized Signs For Detours (01 55 26 00-0176) Note: Excludes posts.		
01 55 26 00-0178		Temporary Aluminum Engineer Grade Stop Signs For Detours (01 55 26 00-0177)		
01 55 26 00-0179	EA	Temporary 18" x 18" Aluminum Engineer Grade Stop Sign For Detours	98.82	
		For Hi-Intensity Grade, Add	10.19	
		For Diamond Grade, Add	19.37	
01 55 26 00-0180	EA	Temporary 18" x 24" Aluminum Engineer Grade Stop Sign For Detours	112.89	
		For Hi-Intensity Grade, Add	13.33	
		For Diamond Grade, Add	25.33	
01 55 26 00-0181	EA	Temporary 24" x 24" Aluminum Engineer Grade Stop Sign For Detours	121.71	
		For Hi-Intensity Grade, Add	20.36	
		For Diamond Grade, Add	32.29	
01 55 26 00-0182	EA	Temporary 30" x 30" Aluminum Engineer Grade Stop Sign For Detours	139.26	
		For Hi-Intensity Grade, Add	7.63	
		For Diamond Grade, Add	41.35	
01 55 26 00-0183	EA	Temporary 36" x 36" Aluminum Engineer Grade Stop Sign For Detours	181.19	
		For Hi-Intensity Grade, Add	22.43	
		For Diamond Grade, Add	70.34	
01 55 26 00-0184		Other Temporary Reflectorized Traffic Signs For Detours (01 55 26 00-0177) Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.		
01 55 26 00-0185		Temporary Aluminum Engineer Grade Traffic Signs For Detours (01 55 26 00-0184)		
01 55 26 00-0186	EA	Temporary 6" x 12" Aluminum Engineer Grade Traffic Sign For Detours	66.05	
		For Hi-Intensity Grade, Add	2.53	
01 55 26 00-0187	EA	Temporary 6" x 18" Aluminum Engineer Grade Traffic Sign For Detours	70.26	
		For Hi-Intensity Grade, Add	3.79	
01 55 26 00-0188	EA	Temporary 9" x 12" Aluminum Engineer Grade Traffic Sign For Detours	70.26	
		For Hi-Intensity Grade, Add	3.79	
01 55 26 00-0189	EA	Temporary 9" x 15" Aluminum Engineer Grade Traffic Sign For Detours	73.41	
		For Hi-Intensity Grade, Add	4.73	
01 55 26 00-0190	EA	Temporary 9" x 18" Aluminum Engineer Grade Traffic Sign For Detours	76.57	
		For Hi-Intensity Grade, Add	5.68	



General Requirements			01
Temporary Facilities and Controls			01 50
Vehicular Access and Parking			01 55

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0191	EA		Temporary 9" x 24" Aluminum Engineer Grade Traffic Sign For Detours	86.49	
			For Hi-Intensity Grade, Add	7.58	
01 55 26 00-0192	EA		Temporary 9" x 48" Aluminum Engineer Grade Traffic Sign For Detours	111.75	
			For Hi-Intensity Grade, Add	15.15	
01 55 26 00-0193	EA		Temporary 12" x 12" Aluminum Engineer Grade Traffic Sign For Detours	74.47	
			For Hi-Intensity Grade, Add	5.05	
01 55 26 00-0194	EA		Temporary 12" x 18" Aluminum Engineer Grade Traffic Sign For Detours	86.49	
			For Hi-Intensity Grade, Add	7.58	
01 55 26 00-0195	EA		Temporary 12" x 24" Aluminum Engineer Grade Traffic Sign For Detours	94.91	
			For Hi-Intensity Grade, Add	10.10	
01 55 26 00-0196	EA		Temporary 12" x 30" Aluminum Engineer Grade Traffic Sign For Detours	103.33	
			For Hi-Intensity Grade, Add	12.63	
01 55 26 00-0197	EA		Temporary 12" x 36" Aluminum Engineer Grade Traffic Sign For Detours	111.75	
			For Hi-Intensity Grade, Add	15.15	
01 55 26 00-0198	EA		Temporary 18" x 18" Aluminum Engineer Grade Traffic Sign For Detours	99.12	
			For Hi-Intensity Grade, Add	11.36	
01 55 26 00-0199	EA		Temporary 18" x 24" Aluminum Engineer Grade Traffic Sign For Detours	111.75	
			For Hi-Intensity Grade, Add	15.15	
01 55 26 00-0200	EA		Temporary 18" x 30" Aluminum Engineer Grade Traffic Sign For Detours	127.98	
			For Hi-Intensity Grade, Add	18.94	
01 55 26 00-0201	EA		Temporary 18" x 36" Aluminum Engineer Grade Traffic Sign For Detours	140.60	
			For Hi-Intensity Grade, Add	22.73	
01 55 26 00-0202	EA		Temporary 18" x 54" Aluminum Engineer Grade Traffic Sign For Detours	192.89	
			For Hi-Intensity Grade, Add	34.09	
01 55 26 00-0203	EA		Temporary 24" x 24" Aluminum Engineer Grade Traffic Sign For Detours	132.19	
			For Hi-Intensity Grade, Add	20.21	
01 55 26 00-0204	EA		Temporary 24" x 30" Aluminum Engineer Grade Traffic Sign For Detours	149.02	
			For Hi-Intensity Grade, Add	25.25	
01 55 26 00-0205	EA		Temporary 24" x 36" Aluminum Engineer Grade Traffic Sign For Detours	165.86	
			For Hi-Intensity Grade, Add	30.31	
01 55 26 00-0206	EA		Temporary 24" x 42" Aluminum Engineer Grade Traffic Sign For Detours	197.10	
			For Hi-Intensity Grade, Add	35.36	
01 55 26 00-0207	EA		Temporary 24" x 48" Aluminum Engineer Grade Traffic Sign For Detours	213.94	
			For Hi-Intensity Grade, Add	40.41	
01 55 26 00-0208	EA		Temporary 24" x 54" Aluminum Engineer Grade Traffic Sign For Detours	230.78	
			For Hi-Intensity Grade, Add	45.46	
01 55 26 00-0209	EA		Temporary 30" x 30" Aluminum Engineer Grade Traffic Sign For Detours	170.07	
			For Hi-Intensity Grade, Add	31.57	
01 55 26 00-0210	EA		Temporary 30" x 36" Aluminum Engineer Grade Traffic Sign For Detours	205.52	
			For Hi-Intensity Grade, Add	37.88	
01 55 26 00-0211	EA		Temporary 30" x 42" Aluminum Engineer Grade Traffic Sign For Detours	226.57	
			For Hi-Intensity Grade, Add	44.20	
01 55 26 00-0212	EA		Temporary 30" x 48" Aluminum Engineer Grade Traffic Sign For Detours	262.02	
			For Hi-Intensity Grade, Add	50.51	
01 55 26 00-0213	EA		Temporary 30" x 60" Aluminum Engineer Grade Traffic Sign For Detours	318.52	
			For Hi-Intensity Grade, Add	63.14	
01 55 26 00-0214	EA		Temporary 36" x 36" Aluminum Engineer Grade Traffic Sign For Detours	230.78	
			For Hi-Intensity Grade, Add	45.46	
01 55 26 00-0215	EA		Temporary 36" x 42" Aluminum Engineer Grade Traffic Sign For Detours	270.44	
			For Hi-Intensity Grade, Add	53.03	
01 55 26 00-0216	EA		Temporary 36" x 48" Aluminum Engineer Grade Traffic Sign For Detours	310.11	
			For Hi-Intensity Grade, Add	60.61	
01 55 26 00-0217	EA		Temporary 36" x 54" Aluminum Engineer Grade Traffic Sign For Detours	335.36	
			For Hi-Intensity Grade, Add	68.19	
01 55 26 00-0218	EA		Temporary 36" x 60" Aluminum Engineer Grade Traffic Sign For Detours	375.02	
			For Hi-Intensity Grade, Add	75.76	
01 55 26 00-0219	EA		Temporary 36" x 73" Aluminum Engineer Grade Traffic Sign For Detours	444.15	
			For Hi-Intensity Grade, Add	92.18	
01 55 26 00-0220	EA		Temporary 36" x 78" Aluminum Engineer Grade Traffic Sign For Detours	465.20	
			For Hi-Intensity Grade, Add	98.49	
01 55 26 00-0221	EA		Temporary 36" x 108" Aluminum Engineer Grade Traffic Sign For Detours	613.09	
			For Hi-Intensity Grade, Add	136.37	
01 55 26 00-0222	EA		Temporary 42" x 42" Aluminum Engineer Grade Traffic Sign For Detours	314.31	
			For Hi-Intensity Grade, Add	61.87	
01 55 26 00-0223	EA		Temporary 48" x 48" Aluminum Engineer Grade Traffic Sign For Detours	391.86	
			For Hi-Intensity Grade, Add	80.81	
01 55 26 00-0224	EA		Temporary 48" x 54" Aluminum Engineer Grade Traffic Sign For Detours	439.94	
			For Hi-Intensity Grade, Add	90.92	
01 55 26 00-0225	EA		Temporary 48" x 60" Aluminum Engineer Grade Traffic Sign For Detours	473.62	
			For Hi-Intensity Grade, Add	101.02	
01 55 26 00-0226	EA		Temporary 48" x 66" Aluminum Engineer Grade Traffic Sign For Detours	528.91	
			For Hi-Intensity Grade, Add	111.12	
01 55 26 00-0227	EA		Temporary 48" x 72" Aluminum Engineer Grade Traffic Sign For Detours	562.58	
			For Hi-Intensity Grade, Add	121.22	
01 55 26 00-0228	EA		Temporary 48" x 84" Aluminum Engineer Grade Traffic Sign For Detours	644.33	
			For Hi-Intensity Grade, Add	141.43	
01 55 26 00-0229	EA		Temporary 48" x 96" Aluminum Engineer Grade Traffic Sign For Detours	711.67	
			For Hi-Intensity Grade, Add	161.63	
01 55 26 00-0230	EA		Temporary 48" x 102" Aluminum Engineer Grade Traffic Sign For Detours	745.34	
			For Hi-Intensity Grade, Add	171.73	
01 55 26 00-0231	EA		Temporary 48" x 108" Aluminum Engineer Grade Traffic Sign For Detours	786.22	
			For Hi-Intensity Grade, Add	181.83	
01 55 26 00-0232	EA		Temporary 60" x 72" Aluminum Engineer Grade Traffic Sign For Detours	678.00	
			For Hi-Intensity Grade, Add	151.53	

01	General Requirements
01 50	Temporary Facilities and Controls
01 55	Vehicular Access and Parking



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0233	EA	Temporary 78" x 96" Aluminum Engineer Grade Traffic Sign For Detours <i>For Hi-Intensity Grade, Add</i>	1,055.60 262.65	
01 55 26 00-0234		Temporary Overhead Sign Structures For Detours (01 55 26 00-0176) Note: Including horizontal Z-bars.		
01 55 26 00-0235	SF	From 30 To 360 SF Signs For Temporary Overhead Sign Structures For Detours <i>For Over 10' High, Add</i>	22.50 13.00	
01 55 26 00-0236		Temporary Sign Posts For Detours (01 55 26 00-0176) Note: Excludes sign.		
01 55 26 00-0237		Temporary U-Channel Sign Posts For Detours (01 55 26 00-0236) Note: Excludes digging and concrete.		
01 55 26 00-0238		Temporary Baked Enamel U-Channel Sign Posts For Detours (01 55 26 00-0237)		
01 55 26 00-0239	EA	Temporary 3' To 4' Baked Enamel U-Channel Sign Post Base For Detours	87.90	
01 55 26 00-0240	EA	Temporary 6' Baked Enamel U-Channel Sign Post For Detours	114.43	
01 55 26 00-0241	EA	Temporary 7' Baked Enamel U-Channel Sign Post For Detours	136.75	
01 55 26 00-0242	EA	Temporary 8' Baked Enamel U-Channel Sign Post For Detours	160.02	
01 55 26 00-0243	EA	Temporary 10' Baked Enamel U-Channel Sign Post For Detours	193.30	
01 55 26 00-0244	EA	Temporary 12' Baked Enamel U-Channel Sign Post For Detours	205.31	
01 55 26 00-0245		Temporary Galvanized Steel U-Channel Sign Posts For Detours (01 55 26 00-0237)		
01 55 26 00-0246	EA	Temporary 3' To 4' Galvanized Steel U-Channel Sign Post Base For Detours.....	93.89	
01 55 26 00-0247	EA	Temporary 6' Galvanized Steel U-Channel Sign Post For Detours.....	123.93	
01 55 26 00-0248	EA	Temporary 7' Galvanized Steel U-Channel Sign Post For Detours.....	158.25	
01 55 26 00-0249	EA	Temporary 8' Galvanized Steel U-Channel Sign Post For Detours.....	183.78	
01 55 26 00-0250	EA	Temporary 10' Galvanized Steel U-Channel Sign Post For Detours.....	210.60	
01 55 26 00-0251	EA	Temporary 12' Galvanized Steel U-Channel Sign Post For Detours.....	220.36	
01 55 26 00-0252		Temporary Fiberglass Or Composite Plastic U-Channel Sign Posts For Detours (01 55 26 00-0237)		
01 55 26 00-0253	EA	Temporary 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base For Detours.....	86.49	
01 55 26 00-0254	EA	Temporary 6' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	111.35	
01 55 26 00-0255	EA	Temporary 7' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	133.04	
01 55 26 00-0256	EA	Temporary 8' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	155.60	
01 55 26 00-0257	EA	Temporary 10' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	185.28	
01 55 26 00-0258	EA	Temporary 12' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	200.56	
01 55 26 00-0259		Temporary Tubular Sign Posts For Detours (01 55 26 00-0236) Note: Excludes digging and concrete.		
01 55 26 00-0260		Temporary 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours (01 55 26 00-0259)		
01 55 26 00-0261	EA	Temporary 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	124.91	
01 55 26 00-0262	EA	Temporary 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	148.49	
01 55 26 00-0263	EA	Temporary 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	175.07	
01 55 26 00-0264	EA	Temporary 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	223.60	
01 55 26 00-0265	EA	Temporary 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	242.37	
01 55 26 00-0266		Temporary Square Sign Posts For Detours (01 55 26 00-0236) Note: Excludes digging and concrete.		
01 55 26 00-0267		Temporary Galvanized Steel Square Sign Posts For Detours (01 55 26 00-0266)		
01 55 26 00-0268	EA	Temporary 3' To 4' Galvanized Steel Square Sign Post Base For Detours	95.22	
01 55 26 00-0269	EA	Temporary 6' Galvanized Steel Square Sign Post For Detours	146.44	
01 55 26 00-0270	EA	Temporary 7' Galvanized Steel Square Sign Post For Detours	172.25	
01 55 26 00-0271	EA	Temporary 8' Galvanized Steel Square Sign Post For Detours	200.92	
01 55 26 00-0272	EA	Temporary 10' Galvanized Steel Square Sign Post For Detours	245.18	
01 55 26 00-0273	EA	Temporary 12' Galvanized Steel Square Sign Post For Detours	263.93	
01 55 26 00-0274		Temporary Breakaway Sign Posts And Bases For Detours (01 55 26 00-0176) Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit. Excludes sign.		
01 55 26 00-0275		Temporary 2.5 Lb./LF Breakaway Sign Posts And Base Posts For Detours (01 55 26 00-0274)		
01 55 26 00-0276		Temporary Base Posts, 2.5 Lb./LF, For Breakaway Sign Posts For Detours (01 55 26 00-0275)		
01 55 26 00-0277	EA	Temporary Base Post for 2.5 Lb./LF, Breakaway Sign Post For Detours	108.96	
01 55 26 00-0278	EA	Temporary Lap Splice Hardware For 2.5 Lb./LF, Breakaway Sign Post For Detours	68.14	
01 55 26 00-0279		Temporary Breakaway Sign Posts, 2.5 Lb./LF For Detours (01 55 26 00-0275)		
01 55 26 00-0280	LF	Temporary Breakaway Sign Post, 2.5 Lb./LF For Detours.....	12.72	



General Requirements			01
Temporary Facilities and Controls			01 50
Vehicular Access and Parking			01 55

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0281		Temporary 4 Lb./LF Breakaway Sign Posts And Base Posts For Detours (01 55 26 00-0274)		
01 55 26 00-0282		Temporary Base Posts, 4 Lb./LF, For Breakaway Sign Posts For Detours (01 55 26 00-0281)		
01 55 26 00-0283	EA	Temporary Base Post for 4 Lb./LF, Breakaway Sign Post For Detours	112.53	
01 55 26 00-0284	EA	Temporary Lap Splice Hardware for 4 Lb./LF, Breakaway Sign Post For Detours	68.14	
01 55 26 00-0285		Temporary Breakaway Sign Posts, 4 Lb./LF For Detours (01 55 26 00-0281)		
01 55 26 00-0286	LF	Temporary Breakaway Sign Post, 4 Lb./LF For Detours	14.93	
01 55 26 00-0287		Temporary Driven Sign Posts For Detours (01 55 26 00-0274)		
01 55 26 00-0288		Temporary Driven Posts, 2.5 Lb./LF For Detours (01 55 26 00-0287)		
01 55 26 00-0289	LF	Temporary Driven Post, 2.5 Lb./LF For Detours For Each Soil Plate, Add	14.64 3.00	
01 55 26 00-0290		Temporary Driven Posts, 4 Lb./LF For Detours (01 55 26 00-0287)		
01 55 26 00-0291	LF	Temporary Driven Post, 4 Lb./LF For Detours For Each Soil Plate, Add	17.82 3.00	
01 55 26 00-0292		Temporary Omni-Directional Breakaway System For Sign Posts And Light Poles For Detours (01 55 26 00-0274)		
01 55 26 00-0293		Temporary Omni-Directional Breakaway Systems For Signs For Detours (01 55 26 00-0292) Note: Break-Safe as manufactured by Transpo Industries. Organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
01 55 26 00-0294	EA	Temporary Omni-Directional Breakaway System For 6" To 8" Wide Flange (Transpo B525)	1,221.97	
01 55 26 00-0295	EA	Temporary Omni-Directional Breakaway System For 10" To 21" Wide Flange (Transpo B650)	1,302.22	
01 55 26 00-0296	EA	Temporary Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Transpo A14 And A16)	892.73	
01 55 26 00-0297	EA	Temporary Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Transpo A3 And A4.5)	781.92	
01 55 26 00-0298	EA	Temporary Omni-Directional Breakaway System For Square Tube (Transpo AS3 And AS4)	886.60	
01 55 26 00-0299	EA	Temporary Omni-Directional Breakaway System For U-Channels (Transpo AU4 To AU6)	843.50	
01 55 26 00-0300	EA	Temporary Omni-Directional Breakaway System For U-Channels Embedded (Transpo AUX4 To AUX6)	792.41	
01 55 26 00-0301		Temporary Omni-Directional Breakaway Systems For Poles For Detours (01 55 26 00-0292) Note: Pole-Safe As Manufactured By Transpo Industries. Organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retrofitting existing poles.		
01 55 26 00-0302	EA	Temporary Omni-Directional Breakaway System For Poles With 5/8" Couplings	438.22	
01 55 26 00-0303	EA	Temporary Omni-Directional Breakaway System For Poles With 3/4" Couplings	459.49	
01 55 26 00-0304	EA	Temporary Omni-Directional Breakaway System For Poles With 1" Couplings	477.14	
01 55 26 00-0305	EA	Temporary Omni-Directional Breakaway System For Poles With 1 1/4" Couplings	724.50	
01 55 26 00-0306	EA	Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15"	63.61	
01 55 26 00-0307	EA	Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20"	84.83	
01 55 26 00-0308		Temporary Rumble Strips (01 55 26) Note: Includes removal after use.		
01 55 26 00-0309	LF	1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip	14.35	
01 55 26 00-0310	LF	1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip	10.32	
01 56		Temporary Barriers and Enclosures (01 50) Note: Includes removal after use.		
01 56 16		Temporary Dust Barriers (01 56)		
01 56 16 00-0001		Temporary Sheeting For Protection (01 56 16) Note: Includes removal after use.		
01 56 16 00-0002	SF	6 Mil, Plastic Sheeting, Applied To Floors	0.41	
01 56 16 00-0003	SF	6 Mil, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.53	
01 56 16 00-0004	SF	6 Mil, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.70	
01 56 16 00-0005	SF	6 Mil, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.69	
01 56 16 00-0006	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors Note: Includes removal after use.	0.49	
01 56 16 00-0007	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.61	
01 56 16 00-0008	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.78	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0009	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.73	
01 56 16 00-0010	SF	10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.95	
01 56 16 00-0011	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Floors Note: Includes removal after use.	0.52	
01 56 16 00-0012	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.64	
01 56 16 00-0013	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.81	
01 56 16 00-0014	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.76	
01 56 16 00-0015	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Floors Note: Includes removal after use.	0.51	
01 56 16 00-0016	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.63	
01 56 16 00-0017	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.80	
01 56 16 00-0018	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.75	
01 56 16 00-0019	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors Note: Includes removal after use.	0.58	
01 56 16 00-0020	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls Note: Includes removal after use.	0.70	
01 56 16 00-0021	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings Note: Includes removal after use.	0.87	
01 56 16 00-0022	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding Note: Includes removal after use.	0.82	
01 56 16 00-0023		Temporary Canvas For Protection (01 56 16) Note: Includes removal after use.		
01 56 16 00-0024	SF	Heavy-Duty Woven Water Repellant Canvas, Applied To Walls	1.09	
01 56 16 00-0025		Accessories For Temporary Sheeting (01 56 16) Note: Includes removal after use.		
01 56 16 00-0026	EA	7' Zipper Door For Plastic Sheeting Note: Includes removal after use.	26.35	
01 56 16 00-0027	LF	Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall) Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors. Includes removal after use.	10.42	
01 56 16 00-0028		Temporary Critical Barriers For Protection (01 56 16) Note: Includes removal after use.		
01 56 16 00-0029	EA	Up To 1 SF Individual Critical Barriers For Outlets And Receptacles Note: Includes removal after use.	14.48	
01 56 16 00-0030	EA	>1 To 4 SF Individual Critical Barriers For Diffusers, Ceiling Speakers, Return Grilles, etc. Note: Includes removal after use.	21.96	
01 56 16 00-0031	EA	>4 To 8 SF Individual Critical Barriers For Diffusers, Return Grilles, Access Doors, Light Fixtures, etc. Note: Includes removal after use.	29.49	
01 56 16 00-0032	EA	>8 To 32 SF Individual Critical Barriers For Doors, Windows, etc. Note: Includes removal after use.	45.91	
01 56 16 00-0033		Temporary Stud Wall (01 56 16) Note: Includes removal after use.		
01 56 16 00-0034		Temporary Stud Wall With Drywall (01 56 16 00-0033) Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0035		Temporary Stud Wall With Drywall (01 56 16 00-0034)		
01 56 16 00-0036	SF	3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.63	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.92	
01 56 16 00-0037	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.63	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.92	
01 56 16 00-0038	SF	5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	7.76	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.92	
01 56 16 00-0039	SF	3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.60	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	1.04	
01 56 16 00-0040	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.60	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	1.04	
01 56 16 00-0041	SF	5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center Note: Includes removal after use.	10.86	
		<i>For Metal Studs 24" On Center, Add/Deduct</i>	1.04	
01 56 16 00-0042		Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0034)		



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0043	SF	1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center		7.78	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0044	SF	5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	.....	7.82	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0045	SF	5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	.....	7.74	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0046	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	.....	8.73	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0047	SF	1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	10.89	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0048	SF	5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	10.98	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0049	SF	5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	10.83	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0050	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	12.79	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0051		Temporary Stud Wall With Oriented Strand Board (OSB) (01 56 16 00-0033)			
		Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.			
01 56 16 00-0052	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	.....	7.45	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0053	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	.....	7.51	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0054	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	.....	7.65	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0055	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	.....	7.73	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0056	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	10.25	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0057	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	10.35	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0058	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	10.65	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0059	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	10.81	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0060		Temporary Stud Wall With BC Plywood (01 56 16 00-0033)			
		Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.			
01 56 16 00-0061	SF	3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	.....	7.81	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0062	SF	1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	.....	8.00	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0063	SF	5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	.....	8.18	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0064	SF	3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	.....	8.34	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.92	
01 56 16 00-0065	SF	3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	10.96	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0066	SF	1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	11.34	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0067	SF	5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	11.70	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	
01 56 16 00-0068	SF	3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	.....	12.01	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		1.04	

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01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0069	Temporary Stud Wall With Plastic Sheeting (01 56 16 00-0033) Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.				
01 56 16 00-0070	SF	6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	.....	4.33	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.78	
01 56 16 00-0071	SF	6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	.....	4.42	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.78	
01 56 16 00-0072	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	.....	4.44	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.78	
01 56 16 00-0073	SF	6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	.....	4.43	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.78	
01 56 16 00-0074	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	.....	4.51	
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct		0.78	
01 56 16 00-0075	Temporary Doors (01 56 16 00-0033) Note: For temporary stud walls. Includes removal after use.				
01 56 16 00-0076	EA	Temporary Metal Door And Frame	.....	698.72	
		Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.			
01 56 16 00-0077	Temporary Floor Protection (01 56 16) Note: Includes removal after use.				
01 56 16 00-0078	SF	1/8" Thick, Masonite For Temporary Floor Protection	.....	1.96	
		Note: Includes removal after use.			
01 56 16 00-0079	SF	1/2" Thick, Plywood For Temporary Floor Protection	.....	2.07	
		Note: Includes removal after use.			
01 56 16 00-0080	SF	3/4" Thick, Plywood For Temporary Floor Protection	.....	2.32	
		Note: Includes removal after use.			
01 56 16 00-0081	LF	38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection	.....	0.93	
		Note: Includes removal after use.			
01 56 16 00-0082	LF	36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection	.....	0.36	
		Note: Includes removal after use.			
01 56 16 00-0083	CSF	3 Mil, Temporary Self-adhesive Carpet Protection Film	.....	28.84	
		Note: Includes removal after use.			
01 56 16 00-0084	SF	Burlap For Temporary Floor Protection	.....	0.78	
		Note: Includes removal after use.			
01 56 16 00-0085	LF	36" Wide, 10 Mil, Non-Flame Retardant, Leak-Proof, Dust-Free And Slip Resistant, Reusable Protective Floor Covering For Temporary Floor Protection	.....	0.65	
		Note: Includes removal after use.			
		For Seam Tape, Add Per LF		0.28	
01 56 16 00-0086	LF	36" Wide, 10 Mil, Flame Retardant, Leak-Proof, Dust-Free And Slip Resistant, Reusable Protective Floor Covering For Temporary Floor Protection	.....	0.76	
		Note: Includes removal after use.			
		For Seam Tape, Add Per LF		0.28	
01 56 16 00-0087	Sticky Mats (01 56 16) Note: Includes removal after use.				
01 56 16 00-0088	EA	18" x 36", 30 Layer Sticky Mat	.....	39.78	
		Note: Includes removal after use.			
		For 60 Layers Instead Of 30, Add		26.24	
01 56 16 00-0089	EA	18" x 46", 30 Layer Sticky Mat	.....	45.61	
		Note: Includes removal after use.			
		For 60 Layers Instead Of 30, Add		30.61	
01 56 16 00-0090	EA	24" x 36", 30 Layer Sticky Mat	.....	45.61	
		Note: Includes removal after use.			
		For 60 Layers Instead Of 30, Add		30.61	
01 56 16 00-0091	EA	25" x 45", 30 Layer Sticky Mat	.....	60.19	
		Note: Includes removal after use.			
		For 60 Layers Instead Of 30, Add		41.54	
01 56 16 00-0092	EA	36" x 36", 30 Layer Sticky Mat	.....	66.02	
		Note: Includes removal after use.			
		For 60 Layers Instead Of 30, Add		45.92	
01 56 16 00-0093	EA	36" x 46", 30 Layer Sticky Mat	.....	71.85	
		Note: Includes removal after use.			
		For 60 Layers Instead Of 30, Add		50.29	
01 56 16 00-0094	EA	36" x 60", 30 Layer Sticky Mat	.....	144.73	
		Note: Includes removal after use.			
		For 60 Layers Instead Of 30, Add		104.95	
01 56 16 00-0095	EA	36" x 72", 30 Layer Sticky Mat	.....	172.71	
		Note: Includes removal after use.			
01 56 26	Temporary Fencing (01 56)				
01 56 26 00-0001	Temporary Fencing (01 56 26) Note: Per ASTM A392-06 Standards				



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0002		Temporary Chain Link Fence (01 56 26 00-0001) Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0003		Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004	LF	Temporary 4' High Chain Link Fence And Posts, Up To 6 Months.....	7.47	
		For >100 To 250, Deduct	-0.18	
		For >250 To 500, Deduct	-0.36	
		For >500, Deduct	-0.54	
		For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0005	LF	Temporary 6' High Chain Link Fence And Posts, Up To 6 Months.....	8.33	
		For >100 To 250, Deduct	-0.21	
		For >250 To 500, Deduct	-0.41	
		For >500, Deduct	-0.62	
		For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0006	LF	Temporary 8' High Chain Link Fence And Posts, Up To 6 Months.....	11.53	
		For >100 To 250, Deduct	-0.35	
		For >250 To 500, Deduct	-0.69	
		For >500, Deduct	-1.04	
		For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0007	LF	Temporary 10' High Chain Link Fence And Posts, Up To 6 Months.....	25.66	
		For >100 To 250, Deduct	-1.03	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-3.09	
		For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0008		Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		
01 56 26 00-0009	LF	Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months.....	7.84	
		For >100 To 250, Deduct	-0.20	
		For >250 To 500, Deduct	-0.40	
		For >500, Deduct	-0.60	
		For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0010	LF	Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months.....	8.73	
		For >100 To 250, Deduct	-0.23	
		For >250 To 500, Deduct	-0.45	
		For >500, Deduct	-0.68	
		For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0011	LF	Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months.....	12.21	
		For >100 To 250, Deduct	-0.38	
		For >250 To 500, Deduct	-0.76	
		For >500, Deduct	-1.14	
		For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0012	LF	Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months.....	27.71	
		For >100 To 250, Deduct	-1.13	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-3.39	
		For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0013		Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)		
01 56 26 00-0014	LF	Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months.....	8.25	
		For >100 To 250, Deduct	-0.22	
		For >250 To 500, Deduct	-0.44	
		For >500, Deduct	-0.66	
		For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0015	LF	Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months.....	9.19	
		For >100 To 250, Deduct	-0.25	
		For >250 To 500, Deduct	-0.50	
		For >500, Deduct	-0.74	
		For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0016	LF	Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months.....	12.99	
		For >100 To 250, Deduct	-0.42	
		For >250 To 500, Deduct	-0.84	
		For >500, Deduct	-1.26	
		For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0017	LF	Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months.....	29.97	
		For >100 To 250, Deduct	-1.24	
		For >250 To 500, Deduct	-2.49	
		For >500, Deduct	-3.73	
		For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0018		Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)		
01 56 26 00-0019	LF	Temporary 4' High Chain Link Fence And Posts, >18 Months.....	8.68	
		For >100 To 250, Deduct	-0.24	
		For >250 To 500, Deduct	-0.48	
		For >500, Deduct	-0.73	
		For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020	LF	Temporary 6' High Chain Link Fence And Posts, >18 Months.....	9.66	
		For >100 To 250, Deduct	-0.27	
		For >250 To 500, Deduct	-0.54	
		For >500, Deduct	-0.81	
		For Each LF Shade Cloth, Add	2.55	

01	General Requirements
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01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	13.81	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.92	
For >500, Deduct	-1.38	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	32.46	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-4.11	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	303.29	
For Each LF Shade Cloth, Add	17.27	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	513.44	
For Each LF Shade Cloth, Add	43.17	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	575.39	
For Each LF Shade Cloth, Add	51.80	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	654.63	
For Each LF Shade Cloth, Add	64.75	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	784.79	
For Each LF Shade Cloth, Add	86.34	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	872.81	
For Each LF Shade Cloth, Add	103.60	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	324.39	
For Each LF Shade Cloth, Add	27.52	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	553.79	
For Each LF Shade Cloth, Add	68.80	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	621.92	
For Each LF Shade Cloth, Add	82.56	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	719.86	
For Each LF Shade Cloth, Add	103.20	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	870.53	
For Each LF Shade Cloth, Add	137.60	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	986.31	
For Each LF Shade Cloth, Add	165.12	
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	362.01	
For Each LF Shade Cloth, Add	38.85	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	633.67	
For Shade Cloth, Add	97.13	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	709.30	
For Shade Cloth, Add	116.55	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	811.43	
For Shade Cloth, Add	145.69	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	991.69	
For Shade Cloth, Add	194.26	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,148.30	
For Shade Cloth, Add	233.11	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	439.15	
For Each LF Shade Cloth, Add	51.26	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	761.12	
For Each LF Shade Cloth, Add	128.16	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	853.63	
For Each LF Shade Cloth, Add	153.79	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	975.14	
For Each LF Shade Cloth, Add	192.23	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,192.06	
For Each LF Shade Cloth, Add	256.31	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,374.10	
For Each LF Shade Cloth, Add	307.57	
01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	314.86	
For Each LF Shade Cloth, Add	17.27	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0056	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	531.42	
		For Each LF Shade Cloth, Add	43.17	
01 56 26 00-0057	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	595.95	
		For Each LF Shade Cloth, Add	51.80	
01 56 26 00-0058	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	677.75	
		For Each LF Shade Cloth, Add	64.75	
01 56 26 00-0059	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	813.06	
		For Each LF Shade Cloth, Add	86.34	
01 56 26 00-0060	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	903.64	
		For Each LF Shade Cloth, Add	103.60	
01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)				
01 56 26 00-0062	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	336.48	
		For Each LF Shade Cloth, Add	27.52	
01 56 26 00-0063	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	572.59	
		For Each LF Shade Cloth, Add	68.80	
01 56 26 00-0064	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	643.41	
		For Each LF Shade Cloth, Add	82.56	
01 56 26 00-0065	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	744.04	
		For Each LF Shade Cloth, Add	103.20	
01 56 26 00-0066	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	900.08	
		For Each LF Shade Cloth, Add	137.60	
01 56 26 00-0067	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,018.55	
		For Each LF Shade Cloth, Add	165.12	
01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)				
01 56 26 00-0069	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	375.30	
		For Each LF Shade Cloth, Add	38.85	
01 56 26 00-0070	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	654.36	
		For Shade Cloth, Add	97.13	
01 56 26 00-0071	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	732.94	
		For Shade Cloth, Add	116.55	
01 56 26 00-0072	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	838.03	
		For Shade Cloth, Add	145.69	
01 56 26 00-0073	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,024.19	
		For Shade Cloth, Add	194.26	
01 56 26 00-0074	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,183.76	
		For Shade Cloth, Add	233.11	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)				
01 56 26 00-0076	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	455.77	
		For Each LF Shade Cloth, Add	51.26	
01 56 26 00-0077	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	786.97	
		For Each LF Shade Cloth, Add	128.16	
01 56 26 00-0078	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	883.18	
		For Each LF Shade Cloth, Add	153.79	
01 56 26 00-0079	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,008.39	
		For Each LF Shade Cloth, Add	192.23	
01 56 26 00-0080	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,232.69	
		For Each LF Shade Cloth, Add	256.31	
01 56 26 00-0081	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,418.42	
		For Each LF Shade Cloth, Add	307.57	
01 56 26 00-0082 Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)				
01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)				
01 56 26 00-0084	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	327.00	
		For Each LF Shade Cloth, Add	17.27	
01 56 26 00-0085	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	550.31	
		For Each LF Shade Cloth, Add	43.17	
01 56 26 00-0086	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	617.53	
		For Each LF Shade Cloth, Add	51.80	
01 56 26 00-0087	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	702.04	
		For Each LF Shade Cloth, Add	64.75	
01 56 26 00-0088	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	842.73	
		For Each LF Shade Cloth, Add	86.34	
01 56 26 00-0089	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	936.02	
		For Each LF Shade Cloth, Add	103.60	
01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)				
01 56 26 00-0091	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	349.18	
		For Each LF Shade Cloth, Add	27.52	
01 56 26 00-0092	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	592.33	
		For Each LF Shade Cloth, Add	68.80	
01 56 26 00-0093	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	665.97	
		For Each LF Shade Cloth, Add	82.56	
01 56 26 00-0094	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	769.42	
		For Each LF Shade Cloth, Add	103.20	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0095	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	931.11	
		<i>For Each LF Shade Cloth, Add</i>	137.60	
01 56 26 00-0096	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,052.39	
		<i>For Each LF Shade Cloth, Add</i>	165.12	
01 56 26 00-0097		8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	389.27	
		<i>For Each LF Shade Cloth, Add</i>	38.85	
01 56 26 00-0099	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	676.08	
		<i>For Shade Cloth, Add</i>	97.13	
01 56 26 00-0100	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	757.76	
		<i>For Shade Cloth, Add</i>	116.55	
01 56 26 00-0101	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	865.95	
		<i>For Shade Cloth, Add</i>	145.69	
01 56 26 00-0102	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,058.32	
		<i>For Shade Cloth, Add</i>	194.26	
01 56 26 00-0103	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,220.99	
		<i>For Shade Cloth, Add</i>	233.11	
01 56 26 00-0104		10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0105	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	473.23	
		<i>For Each LF Shade Cloth, Add</i>	51.26	
01 56 26 00-0106	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	814.12	
		<i>For Each LF Shade Cloth, Add</i>	128.16	
01 56 26 00-0107	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	914.21	
		<i>For Each LF Shade Cloth, Add</i>	153.79	
01 56 26 00-0108	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,043.29	
		<i>For Each LF Shade Cloth, Add</i>	192.23	
01 56 26 00-0109	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,275.35	
		<i>For Each LF Shade Cloth, Add</i>	256.31	
01 56 26 00-0110	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,464.96	
		<i>For Each LF Shade Cloth, Add</i>	307.57	
01 56 26 00-0111		Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112		4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	339.14	
		<i>For Each LF Shade Cloth, Add</i>	17.27	
01 56 26 00-0114	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	569.20	
		<i>For Each LF Shade Cloth, Add</i>	43.17	
01 56 26 00-0115	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	639.12	
		<i>For Each LF Shade Cloth, Add</i>	51.80	
01 56 26 00-0116	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	726.32	
		<i>For Each LF Shade Cloth, Add</i>	64.75	
01 56 26 00-0117	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	872.41	
		<i>For Each LF Shade Cloth, Add</i>	86.34	
01 56 26 00-0118	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	968.40	
		<i>For Each LF Shade Cloth, Add</i>	103.60	
01 56 26 00-0119		6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0120	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	361.87	
		<i>For Each LF Shade Cloth, Add</i>	27.52	
01 56 26 00-0121	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	612.08	
		<i>For Each LF Shade Cloth, Add</i>	68.80	
01 56 26 00-0122	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	688.54	
		<i>For Each LF Shade Cloth, Add</i>	82.56	
01 56 26 00-0123	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	794.81	
		<i>For Each LF Shade Cloth, Add</i>	103.20	
01 56 26 00-0124	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	962.13	
		<i>For Each LF Shade Cloth, Add</i>	137.60	
01 56 26 00-0125	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	1,086.24	
		<i>For Each LF Shade Cloth, Add</i>	165.12	
01 56 26 00-0126		8' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0127	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	403.23	
		<i>For Each LF Shade Cloth, Add</i>	38.85	
01 56 26 00-0128	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	697.80	
		<i>For Shade Cloth, Add</i>	97.13	
01 56 26 00-0129	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	782.59	
		<i>For Shade Cloth, Add</i>	116.55	
01 56 26 00-0130	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	893.87	
		<i>For Shade Cloth, Add</i>	145.69	
01 56 26 00-0131	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,092.45	
		<i>For Shade Cloth, Add</i>	194.26	
01 56 26 00-0132	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,258.22	
		<i>For Shade Cloth, Add</i>	233.11	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0133			10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0134	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	490.68	
			For Each LF Shade Cloth, Add	51.26	
01 56 26 00-0135	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	841.27	
			For Each LF Shade Cloth, Add	128.16	
01 56 26 00-0136	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	945.23	
			For Each LF Shade Cloth, Add	153.79	
01 56 26 00-0137	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,078.20	
			For Each LF Shade Cloth, Add	192.23	
01 56 26 00-0138	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,318.02	
			For Each LF Shade Cloth, Add	256.31	
01 56 26 00-0139	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,511.50	
			For Each LF Shade Cloth, Add	307.57	
01 56 26 00-0140			Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)		
			Note: Includes delivery, set-up and removal. Excludes sandbags.		
01 56 26 00-0141			Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142	LF		Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months	8.18	
			For >100 To 250, Deduct	-0.22	
			For >250 To 500, Deduct	-0.43	
			For >500, Deduct	-0.65	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0143	LF		Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months	9.10	
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.49	
			For >500, Deduct	-0.73	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0144	LF		Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months	12.46	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.79	
			For >500, Deduct	-1.18	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0145			Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146	LF		Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	8.56	
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.47	
			For >500, Deduct	-0.71	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0147	LF		Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months	9.50	
			For >100 To 250, Deduct	-0.26	
			For >250 To 500, Deduct	-0.53	
			For >500, Deduct	-0.79	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0148	LF		Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months	13.14	
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.28	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0149			Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150	LF		Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months	8.93	
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.51	
			For >500, Deduct	-0.76	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0151	LF		Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months	9.97	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.57	
			For >500, Deduct	-0.86	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0152	LF		Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months	13.92	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.40	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0153			Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154	LF		Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	9.39	
			For >100 To 250, Deduct	-0.28	
			For >250 To 500, Deduct	-0.56	
			For >500, Deduct	-0.83	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0155	LF		Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	10.44	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.62	
			For >500, Deduct	-0.93	
			For Each LF Shade Cloth, Add	2.55	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months 14.72 For >100 To 250, Deduct .....-0.51 For >250 To 500, Deduct .....-1.01 For >500, Deduct .....-1.52 For Each LF Shade Cloth, Add 3.60		
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag 7.31 Note: Includes placement and removal.		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001) Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts 4.26 01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts 6.38 01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts 9.22 01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts 11.35		
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing 0.96 01 56 26 00-0171 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing 1.16 01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing 1.30		
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts 124.86 01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts 144.07 01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts 177.68 01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts 192.09		
01 56 26 00-0174 Temporary Safety Fence (01 56 26) Note: Includes removal after use.		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence 3.69		
01 56 29 Temporary Protective Walkways (01 56)		
01 56 29 00-0001 Temporary Sidewalk Bridge Protection (01 56 29)		
01 56 29 00-0002 Installation of Sidewalk Bridge (01 56 29 00-0001) Note: Excludes material rental. See CSI section 01 56 29 00-0005 for monthly rental x length.		
01 56 29 00-0003 LF Installation of Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly 204.58 Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system. For 3 Post System, Add 6.00 For Each Additional Foot Over 8' Wide, Add 3.00 For Each Additional Foot Over 8' High, Add 2.00		
01 56 29 00-0004 LF Installation of Netting for Sidewalk Bridge 5.22		
01 56 29 00-0005 Monthly Rental of Sidewalk Bridge (01 56 29 00-0001) Note: Excludes installation set-up and removal. See CSI section 01 56 29 00-0002 for installation set-up, 01 56 29 00-0016 for removal.		
01 56 29 00-0006 LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly 15.89 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 2.38		
01 56 29 00-0007 LF Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly 17.89 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 2.68		
01 56 29 00-0008 LF Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly 19.88 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 2.98		
01 56 29 00-0009 LF Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly 19.88 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 2.98		
01 56 29 00-0010 LF Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly 21.84 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 3.28		
01 56 29 00-0011 LF Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly 25.86 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 3.88		



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0012	LF		Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly.....	23.87	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	3.58	
01 56 29 00-0013	LF		Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly.....	27.84	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	4.18	
01 56 29 00-0014	LF		Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly.....	29.79	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	4.47	
01 56 29 00-0015	LF		Monthly Rental of Netting for Sidewalk Bridge.....	2.98	
01 56 29 00-0016			Removal of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0017	LF		Removal Of Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly.....	42.58	
			Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
			For 3 Post System, Add	2.50	
			For Each Additional Foot Over 8' Wide, Add	1.25	
			For Each Additional Foot Over 8' High, Add	0.75	
01 56 29 00-0018	LF		Removal Of Netting For Sidewalk Bridge.....	1.44	
01 56 29 00-0019			Temporary Safety Nets (01 56 29)		
			Note: Includes removal after use.		
01 56 29 00-0020	SF		Small Mesh Debris Netting.....	3.01	
			Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
01 56 33			Temporary Security Barriers (01 56)		
01 56 33 00-0001			Board-up Opening With Plywood (01 56 33)		
			Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002	OPNG		Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	14.41	
01 56 33 00-0003	SF		5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	9.27	
01 56 33 00-0004	SF		3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	10.74	
01 56 33 00-0005			Temporary Pedestrian Barricade (01 56 33)		
			Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006	DAY		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	14.84	
01 56 33 00-0007	WK		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	36.04	
01 56 33 00-0008	MO		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	108.13	
01 56 39			Temporary Tree and Plant Protection (01 56)		
01 56 39 00-0001			Temporary Tree Guards (01 56 39)		
			Note: Includes digging holes and removal after use.		
01 56 39 00-0002	EA		Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	210.81	
01 56 39 00-0003	EA		4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	250.39	
01 56 39 00-0004	EA		6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	272.21	
01 57			Temporary Controls (01 50)		
01 57 13			Temporary Erosion and Sediment Control (01 57)		
			See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.		
01 57 23			Temporary Storm Water Pollution Control (01 57)		
			See CSI section 31 25 00 00-0000 for temporary storm water pollution control.		
01 57 23 00-0001			Temporary Drain Guard (01 57 23)		
			Note: Includes removal after use.		
01 57 23 00-0002	EA		36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227).....	115.74	
01 57 23 00-0003	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217).....	113.56	
			Note: Up to 0.87 gallons oil, up to 40 Lb. sediment.		
01 57 23 00-0004	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219).....	144.28	
			Note: Up to 1.38 gallons oil, up to 40 Lb. sediment.		
01 57 23 00-0005	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356).....	142.07	
			Note: Up to 1.55 gallons oil, up to 40 Lb. sediment.		
01 57 23 00-0006	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358).....	175.00	
			Note: Up to 2.06 gallons oil, up to 40 Lb. sediment.		
01 57 26			Site Watering for Dust Control (01 57)		
01 57 26 00-0001			Site Watering for Dust Control (01 57 26)		
			See CSI section 31 23 23 23-0001 for water and water truck.		

01	General Requirements
01 50	Temporary Facilities and Controls
01 57	Temporary Controls



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 57 26 00-0002	MSF	Apply Synthetic, Liquid Dust Suppression Fluid With GTL Technology (Soil Works Durasoil)..... Note: GTL (Gas-to-Liquid)	110.17	
01 57 26 00-0003	MSF	Apply 2% Solution Of Biodegradable, Liquid Copolymer Dust Suppression Fluid To Ground (Soil Works Gorilla-Snot).....	45.48	
01 57 26 00-0004	MSF	Apply 4% Solution Of Biodegradable, Liquid Copolymer Dust Suppression Fluid To Ground (Soil Works Gorilla-Snot).....	68.39	
01 57 26 00-0005	MSF	Apply 8% Solution Of Biodegradable, Liquid Copolymer Dust Suppression Fluid To Ground (Soil Works Gorilla-Snot).....	114.19	
01 57 26 00-0006	MSF	Apply 12% Solution Of Biodegradable, Liquid Copolymer Dust Suppression Fluid To Ground (Soil Works Gorilla-Snot).....	160.00	

01 58 Project Identification (01 50)

Note: Includes removal after use.

01 58 13 Temporary Project Signage (01 58)

01 58 13 00-0001		Project Sign (01 58 13)		
01 58 13 00-0002		MDO Plywood Signs (01 58 13 00-0001) Note: Excludes posts.		
01 58 13 00-0003		Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0004		Engineer Grade, Reflectorized, MDO Plywood Signs (01 58 13 00-0003)		
01 58 13 00-0005	EA	Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	167.11 39.99 77.13	26.42
01 58 13 00-0006	EA	>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	283.79 79.99 154.27	27.62
01 58 13 00-0007	EA	>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	400.45 119.99 231.40	28.82
01 58 13 00-0008	EA	>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	517.13 159.99 308.54	30.02
01 58 13 00-0009	SF	>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign For High-Intensity Grade, Add For Diamond Grade, Add	16.20 5.00 9.64	0.96
01 58 13 00-0010		Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0011		One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0012	EA	Up To 8 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	214.93	26.42
01 58 13 00-0013	EA	>8 To 16 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	256.01	27.62
01 58 13 00-0014	EA	>16 To 24 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	320.10	28.82
01 58 13 00-0015	EA	>24 To 32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	380.63	30.02
01 58 13 00-0016	SF	>32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	11.94	0.96
01 58 13 00-0017		Full Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0018	EA	Up To 8 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	219.49	26.42
01 58 13 00-0019	EA	>8 To 16 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	280.61	27.62
01 58 13 00-0020	EA	>16 To 24 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	345.10	28.82
01 58 13 00-0021	EA	>24 To 32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	402.06	30.02
01 58 13 00-0022	SF	>32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	12.61	0.96
01 58 13 00-0023		Fabricate And Install New Posts (01 58 13 00-0001) Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF	Galvanized Metal Channel Sign Posts	20.64	
01 58 13 00-0025	LF	4" x 4" Pressure Treated Wood Sign Posts	15.60	
01 58 13 00-0026	LF	4" x 6" Pressure Treated Wood Sign Posts	18.67	
01 58 13 00-0027		Owner Supplied Signs (01 58 13 00-0001)		
01 58 13 00-0028	EA	Installation And Removal Of Owner Supplied Project Sign	96.06	

01 60 Product Requirements (01)

01 66 Product Storage and Handling Requirements (01 60)

01 66 19 Product Handling Requirements (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories or less than 125'.

01 66 19 00-0001		Transfer Delivered Materials Between Floors (01 66 19) Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0002	CY	Transfer Delivered Material Between Floors Via Stairs, Per Floor..... Note: Quantity equals volume of materials multiplied by number of floors traveled.	18.47	



General Requirements		01	5
Product Requirements		01 60	
Product Storage and Handling Requirements		01 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip..... Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.	12.01	
01 66 19 00-0004 Transfer Delivered Materials Distances Greater Than 125' (01 66 19) Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	7.51	
01 66 19 00-0006 Transfer Demolition Debris Between Floors (01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor	18.47	
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip	12.01	
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125' (01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'	7.51	
01 66 19 00-0011 Moving Furniture And Furnishings (01 66 19) Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		
01 66 19 00-0012 SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings..... Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.	1.20	

01 70 Execution and Closeout Requirements (01)

01 71 Examination and Preparation (01 70)

01 71 13 Mobilization (01 71)

01 71 13 00-0001	Equipment Delivery, Pickup, Mobilization And Demobilization (01 71 13) Note: Excludes flagman for traffic control where necessary. Per each mobilization delivery. See CSI section 01 22 23 00-0972 for cranes.	
01 71 13 00-0002 EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	534.49
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.	
01 71 13 00-0003 EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....	1,652.11
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy-duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.	
01 71 13 00-0004	Crane Delivery, Pickup, Mobilization And Demobilization (01 71 13) Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.	
01 71 13 00-0005 EA	Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane.....	570.12
	Note: Includes delivery and pickup.	
	For >30 To 60 Miles Radius, Add	142.53
	For >60 To 100 Miles Radius, Add	228.05
01 71 13 00-0006 EA	>20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane	926.44
	Note: Includes delivery and pickup.	
	For >30 To 60 Miles Radius, Add	231.61
	For >60 To 100 Miles Radius, Add	370.58
01 71 13 00-0007 EA	>40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane	1,282.76
	Note: Includes delivery and pickup.	
	For >30 To 60 Miles Radius, Add	320.69
	For >60 To 100 Miles Radius, Add	513.10
01 71 13 00-0008 EA	>70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane	2,066.66
	Note: Includes delivery and pickup.	
	For >30 To 60 Miles Radius, Add	516.67
	For >60 To 100 Miles Radius, Add	826.66
01 71 13 00-0009 EA	>110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane	2,594.02
	Note: Includes delivery and pickup.	
	For >30 To 60 Miles Radius, Add	648.51
	For >60 To 100 Miles Radius, Add	1,037.61
01 71 13 00-0010 EA	>125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane	3,228.27
	Note: Includes delivery and pickup.	
	For >30 To 60 Miles Radius, Add	807.07
	For >60 To 100 Miles Radius, Add	1,291.31

01	General Requirements
01 70	Execution and Closeout Requirements
01 71	Examination and Preparation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0011 EA >150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane 3,720.00 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 930.00 For >60 To 100 Miles Radius, Add 1,488.00		
01 71 13 00-0012 EA >185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane 4,161.84 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 1,040.46 For >60 To 100 Miles Radius, Add 1,664.74		
01 71 13 00-0013 EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane 2,209.20 Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add 552.30 For >60 To 100 Miles Radius, Add 883.68		
01 71 13 00-0014 EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane 3,491.95 Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add 872.99 For >60 To 100 Miles Radius, Add 1,396.78		
01 71 13 00-0015 EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane 4,418.39 Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add 1,104.60 For >60 To 100 Miles Radius, Add 1,767.36		
01 71 13 00-0016 EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane 5,487.36 Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add 1,371.84 For >60 To 100 Miles Radius, Add 2,194.94		
01 71 13 00-0017 EA 200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane 6,841.39 Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add 1,710.35 For >60 To 100 Miles Radius, Add 2,736.56		
01 71 13 00-0018 EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane 7,981.61 Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add 1,995.40 For >60 To 100 Miles Radius, Add 3,192.64		
01 71 13 00-0019 EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane 11,402.30 Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add 2,850.58 For >60 To 100 Miles Radius, Add 4,560.92		
01 71 13 00-0020 EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane 15,635.41 Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add 3,908.85 For >60 To 100 Miles Radius, Add 6,254.16		

01 71 23 Field Engineering (01 71)

01 71 23 16 Construction Surveying (01 71 23)

01 71 23 16-0001	Conventional Topographic Survey (01 71 23 16) Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.	
01 71 23 16-0002	ACR Conventional Topographic Survey Of Clear Area With Few To No Obstacles.....	1,364.79
01 71 23 16-0003	ACR Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings).....	3,810.98
01 71 23 16-0004	ACR Conventional Topographic Survey Of Clear Area With Few Structures, And/or Wooded (5-25% Buildings).....	5,474.10
01 71 23 16-0005	ACR Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings).....	8,220.90
01 71 23 16-0006	ACR Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, etc. (>65% Buildings).....	10,288.28
01 71 23 16-0007	Property Lines Survey (01 71 23 16) Note: Not to be added to tasks in the "Conventional Topographic Survey" section.	
01 71 23 16-0008	LF Survey Property Lines On Cleared Land	3.04
01 71 23 16-0009	LF Survey Property Lines On Slightly Wooded Land	3.51
01 71 23 16-0010	LF Survey Property Lines On Wooded Land.....	4.11
01 71 23 16-0011	Survey Monument (01 71 23 16)	
01 71 23 16-0012	EA 3' Precast Survey Monument.....	214.36
	For Owner Furnished Monument, Deduct	-85.62
01 71 23 16-0013	EA Precast Survey Monument Box With Cast Iron Frame And Cover.....	320.90
01 71 23 16-0014	EA Riser Ring For Survey Monument.....	165.46
01 71 23 16-0015	EA Reset/Relocate/Adjust Survey Monument Cover To Grade.....	256.86
01 71 23 16-0016	Facade Surveying (01 71 23 16)	
01 71 23 16-0017	LF Facade Survey And Reports (LF Of Facade x Number Of Floors)	8.33
01 71 23 16-0018	Utility Survey (01 71 23 16) Note: This survey is only for the location of underground utilities.	
01 71 23 16-0019	ACR Survey Clear Area For Underground Utilities.....	7,008.47
01 71 23 16-0020	GPR Bridge Deck And Pavement Inspection (01 71 23 16)	



General Requirements			01	Σ
Execution and Closeout Requirements			01 70	
Examination and Preparation			01 71	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0021	GPR Bridge Deck And Pavement Inspection Mobilization Fee (01 71 23 16-0020) Note: One mobilization per project.		
01 71 23 16-0022	EA GPR Bridge Deck And Pavement Inspection Mobilization Fee.....	4,256.03	
01 71 23 16-0023	Bridge Deck Delamination Survey, GPR Bridge Deck Inspection (01 71 23 16-0020) Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0024	EA Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	3,090.15	
01 71 23 16-0025	SF Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	1.30	
01 71 23 16-0026	SF >5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	1.03	
01 71 23 16-0027	SF >10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.82	
01 71 23 16-0028	SF >25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.62	
01 71 23 16-0029	SF >50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.49	
01 71 23 16-0030	SF >100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.39	
01 71 23 16-0031	SF >250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.29	
01 71 23 16-0032	Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection (01 71 23 16-0020) Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0033	EA Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	1,030.05	
01 71 23 16-0034	SF Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	0.06	
01 71 23 16-0035	Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection (01 71 23 16-0020) Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0036	EA Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	1,030.05	
01 71 23 16-0037	SF Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	0.47	
01 71 23 16-0038	SF >5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.37	
01 71 23 16-0039	SF >10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.29	
01 71 23 16-0040	SF >25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.23	
01 71 23 16-0041	SF >50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.19	
01 71 23 16-0042	SF >100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.14	
01 71 23 16-0043	SF >250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.10	
01 71 23 16-0044	Pavement Structure And Thickness Measurement, GPR Pavement Inspection (01 71 23 16-0020) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0045	LM Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	7,659.45	
01 71 23 16-0046	LM >4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	3,339.42	
01 71 23 16-0047	LM >9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	2,486.54	
01 71 23 16-0048	LM >49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,357.61	
01 71 23 16-0049	LM >99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,067.13	
01 71 23 16-0050	Pavement Thickness Contour (Mapping), GPR Pavement Inspection (01 71 23 16-0020) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0051	LM Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	9,746.33	
01 71 23 16-0052	LM >4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	4,583.72	
01 71 23 16-0053	LM >9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	3,481.57	
01 71 23 16-0054	LM >49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,950.91	
01 71 23 16-0055	LM >99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,543.01	
01 71 23 16-0056	Pavement Void Detection (Mapping), GPR Pavement Inspection (01 71 23 16-0020) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0057	LM Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	11,573.64	
01 71 23 16-0058	LM >4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	5,671.46	
01 71 23 16-0059	LM >9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	4,350.93	
01 71 23 16-0060	LM >49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	2,470.06	
01 71 23 16-0061	LM >99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	1,957.10	
01 71 23 16-0062	Drone Survey (Extreme Aerial Productions) (01 71 23 16) Note: Thermographic services to electrical line grid inspections.		
01 71 23 16-0063	Mobilization For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0064	EA Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	276.92	
01 71 23 16-0065	EA Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	692.29	
01 71 23 16-0066	EA Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	184.61	
01 71 23 16-0067	EA Mobilization For Drone Road Survey For Topography/Progression/Inspection	369.22	
01 71 23 16-0068	EA Mobilization For Drone Survey Stockpile	184.61	

01	General Requirements
01 70	Execution and Closeout Requirements
01 71	Examination and Preparation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0069 EA Mobilization For Drone Inspection	184.61	
01 71 23 16-0070 EA Mobilization For Qualitative Drone Thermal Inspection.....	369.22	
01 71 23 16-0071 EA Mobilization For Quantitative Drone Thermal Inspection	461.52	
01 71 23 16-0072 EA Mobilization For Drone Agricultural Multispectral Survey.....	738.44	
01 71 23 16-0073 EA Mobilization For Drone Building Inspection/Scan/Thermal.....	553.83	
01 71 23 16-0074 EA Mobilization For Drone 3D Modelling	461.52	
01 71 23 16-0075 EA Mobilization For Drone Spraying Crops Or Sanitation	830.74	
01 71 23 16-0076 EA Mobilization For Drone Video Progression/Marketing	184.61	
01 71 23 16-0077 EA Mobilization For Drone Pictures Progression/Marketing	184.61	
01 71 23 16-0078 EA Mobilization For Drone Training, Flying, Test Prep, Equipment Checks	184.61	
01 71 23 16-0079 EA Mobilization For Drone Accident Reconstruction	184.61	
01 71 23 16-0080 EA Mobilization For Drone Landfill Survey	276.92	
01 71 23 16-0081 EA Mobilization For Drone Event Security Using Tethered Drones.....	369.22	
01 71 23 16-0082 EA Mobilization For Drone Emergency Response.....	923.05	
01 71 23 16-0083 EA Mobilization For Drone Cell Tower Inspection	276.92	
01 71 23 16-0084 Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0085 HR Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	673.83	
Note: 3 hour minimum		
For Visual Observation, Add	184.61	
For Additional Manpower, Add	184.61	
01 71 23 16-0086 HR > 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	858.44	
For Visual Observation, Add	276.92	
For Additional Manpower, Add	221.53	
01 71 23 16-0087 HR Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	553.83	
Note: 3 hour minimum		
For Visual Observation, Add	184.61	
For Additional Manpower, Add	184.61	
01 71 23 16-0088 HR Drone Road Survey For Topography/Progression/Inspection.....	646.14	
Note: 3 hour minimum		
For Visual Observation, Add	276.92	
For Additional Manpower, Add	184.61	
01 71 23 16-0089 HR Drone Survey Stockpile	461.52	
Note: 3 hour minimum		
For Visual Observation, Add	184.61	
For Additional Manpower, Add	184.61	
01 71 23 16-0090 HR Drone Inspection.....	646.14	
Note: 3 hour minimum		
For Visual Observation, Add	184.61	
For Additional Manpower, Add	184.61	
01 71 23 16-0091 HR Qualitative Drone Thermal Inspection.....	738.44	
Note: 5 hour minimum		
For Visual Observation, Add	276.92	
For Additional Manpower, Add	184.61	
01 71 23 16-0092 HR Quantitative Drone Thermal Inspection.....	1,107.66	
Note: 5 hour minimum		
For Visual Observation, Add	276.92	
For Additional Manpower, Add	184.61	
01 71 23 16-0093 HR Drone Agricultural Multispectral Survey	830.74	
Note: 6 hour minimum		
For Visual Observation, Add	184.61	
For Additional Manpower, Add	184.61	
01 71 23 16-0094 HR Drone Building Inspection/Scan/Thermal.....	738.44	
Note: 3 hour minimum		
For Visual Observation, Add	276.92	
For Additional Manpower, Add	184.61	
01 71 23 16-0095 HR Drone 3D Modelling	553.83	
Note: 3 hour minimum		
For Visual Observation, Add	276.92	
For Additional Manpower, Add	184.61	
01 71 23 16-0096 HR Drone Spraying Crops Or Sanitation	738.44	
Note: 3 hour minimum		
For Visual Observation, Add	230.76	
For Additional Manpower, Add	184.61	
01 71 23 16-0097 HR Drone Video Progression/Marketing	369.22	
Note: 2 hour minimum		
For Visual Observation, Add	184.61	
For Additional Manpower, Add	184.61	
01 71 23 16-0098 HR Drone Pictures Progression/Marketing	276.92	
Note: 2 hour minimum		
For Visual Observation, Add	184.61	
For Additional Manpower, Add	184.61	
01 71 23 16-0099 HR Drone Training, Flying, Test Prep, Equipment Checks	553.83	
Note: 3 hour minimum		
01 71 23 16-0100 HR Drone Accident Reconstruction	830.74	
Note: 2 hour minimum		
For Visual Observation, Add	184.61	
For Additional Manpower, Add	184.61	
01 71 23 16-0101 HR Drone Landfill Survey.....	673.83	
Note: 3 hour minimum		
For Visual Observation, Add	184.61	
For Additional Manpower, Add	184.61	



General Requirements		01	Σ
Execution and Closeout Requirements		01 70	
Examination and Preparation		01 71	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0102 HR Drone Event Security Using Tethered Drones.....461.52 Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	184.61 184.61	
01 71 23 16-0103 HR Drone Emergency Response.....461.52 Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	276.92 184.61	
01 71 23 16-0104 HR Drone Cell Tower Inspection 461.52 Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	230.76 184.61	
01 71 23 16-0105 Utilization And Deliverables For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0106 Day Utilization Of GPS Ground Control For Drone Surveying 461.52		
01 71 23 16-0107 Day Utilization Of GPS Base Station Per Day For Drone Surveying.....461.52		
01 71 23 16-0108 HR Processing And Data Deliverables And Reporting For Drone Surveying.....184.61 Note: 2 hour minimum		
01 71 23 16-0109 HR Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying.....369.22 Note: 3 hour minimum		
01 71 23 16-0110 Travel, Waivers, And Editing For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0111 MI Travel Over 100 Miles For Drone Surveying.....1.06 Note: For additional miles over 100		
01 71 23 16-0112 EA Overnight Stay Per Person For Drone Surveying 230.76		
01 71 23 16-0113 EA Waiver Utilization B, C, D, And E For Drone Surveying.....92.30 Note: Restricted airspace		
01 71 23 16-0114 EA Night Waiver For Drone Surveying 120.00		
01 71 23 16-0115 EA Flying Over People Waiver For Drone Surveying 184.61		
01 71 23 16-0116 EA Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying.....923.05		
01 71 23 16-0117 HR Editing Video For Drone Surveying.....184.61 Note: 2 hour minimum		
01 71 23 16-0118 HR Editing Pictures For Drone Surveying.....92.30 Note: 2 hour minimum		
01 71 23 16-0119 HR Custom Post Processing For Drone Surveying 276.92 Note: 3 hour minimum		
01 71 36 Non-Destructive Concrete Examination (01 71)		
01 71 36 00-0001 Electromagnetic Survey (01 71 36) Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002 Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0003 EA Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....1,191.54		
01 71 36 00-0004 EA >1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....1,787.31		
01 71 36 00-0005 EA >4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....3,574.62		
01 71 36 00-0006 Reports And Mapping For Electromagnetic (SIR/GPR) Surveys (01 71 36 00-0001)		
01 71 36 00-0007 EA Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....397.18 Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.		
01 71 36 00-0008 EA GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt 794.36 Note: Includes GPS coordinates of located items and reference items.		
01 71 36 00-0009 EA CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt 1,787.31 Note: Includes additions to the owner provided CAD drawing.		
01 74 Cleaning and Waste Management (01 70)		
01 74 13 Progress Cleaning (01 74) Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.		
01 74 13 00-0001 General (01 74 13)		
01 74 13 00-0002 CSF Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....19.21		
01 74 13 00-0003 CY Collect Existing Debris And Load Into Truck Or Dumpster 28.22 Note: Per CY of debris removed.		
01 74 13 00-0004 CSF Wet Mop, Disinfect And High Efficiency Particulate Air (HEPA) Vacuum Floors (Three Step Process) 24.19 Note: For use in contained areas for Class III or IV infection control.		
01 74 16 Site Maintenance (01 74)		

01	General Requirements
01 70	Execution and Closeout Requirements
01 74	Cleaning and Waste Management



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 16 00-0001		Parking Lot, Roads And Pathway Maintenance (01 74 16) Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks.		
01 74 16 00-0002		Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)		
01 74 16 00-0003	MSF	Sweep Parking Lot, With Street Sweeper	26.31	
01 74 16 00-0004	MSF	Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads	31.58	
01 74 16 00-0005		Runway Sweeping (01 74 16 00-0001)		
01 74 16 00-0006	MSF	Sweep Runway, With Street Sweep	39.47	
01 74 19		Construction Waste Management and Disposal (01 74) Note: Tasks in this section shall be used as directed by owner.		
01 74 19 00-0001		Debris Chutes (01 74 19) Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.		
01 74 19 00-0002		Steel Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0003	LF	18" Diameter, Steel Temporary Debris Chute	46.16	
01 74 19 00-0004	LF	30" Diameter, Steel Temporary Debris Chute	69.79	
01 74 19 00-0005		Plastic Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0006	LF	24" Diameter, Plastic Temporary Debris Chute	18.27	
		For Steel Liner, Add	3.57	
01 74 19 00-0007	LF	30" Diameter, Plastic Temporary Debris Chute	20.95	
		For Steel Liner, Add	4.09	
01 74 19 00-0008	LF	36" Diameter, Plastic Temporary Debris Chute	23.61	
		For Steel Liner, Add	4.61	
01 74 19 00-0009		Wood Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0010	LF	4' x 4', Wood Temporary Debris Chute	35.77	
		Note: Includes fabrication and installation.		
01 74 19 00-0011		Construction Dumpsters Rental (01 74 19) Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.		
01 74 19 00-0012	EA	10 CY Dumpster (1 Ton) "Construction Debris"	534.09	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		For Each Ton Over Indicated Amount, Add	98.50	
01 74 19 00-0013	EA	15 CY Dumpster (2 Ton) "Construction Debris"	573.34	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		For Each Ton Over Indicated Amount, Add	98.50	
01 74 19 00-0014	EA	20 CY Dumpster (2 Ton) "Construction Debris"	617.85	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		For Each Ton Over Indicated Amount, Add	98.50	
01 74 19 00-0015	EA	30 CY Dumpster (3 Ton) "Construction Debris"	701.33	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		For Each Ton Over Indicated Amount, Add	98.50	
01 74 19 00-0016	EA	40 CY Dumpster (4 Ton) "Construction Debris"	896.35	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
		For Each Ton Over Indicated Amount, Add	98.50	
01 74 19 00-0017	EA	10 CY Low-Boy Dumpster "Concrete Or Asphalt Only"	786.23	
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0018	EA	15 CY Low-Boy Dumpster Clean Recyclable	857.94	
		Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0019	EA	15 CY Low-Boy Dumpster Mixed Recyclable	921.96	
		Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0020		Concrete Washout Service (01 74 19)		
01 74 19 00-0021	MO	Rampless Concrete Washout Bin	531.71	
		Note: Includes delivery.		
01 74 19 00-0022	MO	Ramped Concrete Washout Bin	638.06	
		Note: Includes delivery.		
01 74 19 00-0023	EA	Interim Vacuum Service, Concrete Washout Bin	656.49	
		Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0024	EA	Vacuum, Pickup, Swap And Dump, Concrete Washout Bin	1,422.40	
		Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		



General Requirements		01	Σ
Execution and Closeout Requirements		01 70	
Cleaning and Waste Management		01 74	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0025		Debris Processing Fee (01 74 19)		
01 74 19 00-0026		Material Recycling Fees (01 74 19 00-0025)		
Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.				
01 74 19 00-0027	CY	Drop-Off Asphalt At Recycling Center	18.76	
01 74 19 00-0028	CY	Drop-Off Non-Reinforced Concrete At Recycling Center	25.13	
01 74 19 00-0029	CY	Drop-Off Reinforced Concrete At Recycling Center	37.70	
01 74 19 00-0030	CY	Drop-Off Brick Or Block At Recycling Center	32.67	
01 74 19 00-0031	CY	Drop-Off Dirt At Recycling Center	36.44	
01 74 19 00-0032	CY	Drop-Off Dimensional Lumber At Recycling Center	17.59	
01 74 19 00-0033		Landfill Dump Fees (01 74 19 00-0025)		
Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0043 for hauling.				
01 74 19 00-0034	CY	Traditional Building Construction Materials Landfill Dump Fee	16.72	
01 74 19 00-0035	TON	Traditional Building Construction Materials, Landfill Dump Fee	72.88	
01 74 19 00-0036	CY	Trees, Stumps And Brush, Landfill Dump Fee	20.13	
01 74 19 00-0037	CY	Hazardous Materials And Rubbish Landfill Dump Fee	48.00	
Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.				
01 74 19 00-0038	CY	Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	34.11	
01 74 19 00-0039	CY	Clean Dirt (No Grass, Weeds, Roots, Plants, Trash)	55.89	
01 74 19 00-0040	CY	Clay Loads, Expansive Materials	69.86	
01 74 19 00-0041	TON	General Refuse	81.76	
01 74 19 00-0042	EA	Tires	15.90	
01 74 19 00-0043		Hauling (01 74 19)		
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.				
01 74 19 00-0044	CYM	Hauling On Paved Roads, First 15 Miles	1.07	
01 74 19 00-0045	CYM	Hauling On Paved Roads, Miles Over Initial 15 Miles	0.72	
01 74 19 00-0046	CYM	Hauling On Unimproved Roads, First 15 Miles	1.66	
01 74 19 00-0047	CYM	Hauling On Unimproved Roads, Miles Over Initial 15 Miles	1.30	
01 74 23		Final Cleaning (01 74)		
01 74 23 00-0001		Cleaning Of Glass (01 74 23)		
01 74 23 00-0002	CSF	Cleaning Of Existing Glass Surfaces	32.78	

END OF SECTION 01

01	01	General Requirements
	01 70	Execution and Closeout Requirements
	01 74	Cleaning and Waste Management



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Existing Conditions		02
Assessment		02 20
Existing Material Assessment		02 25

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 Existing Conditions

02 20 Assessment⁽⁰²⁾

02 25 Existing Material Assessment^(02 20)

02 25 16 Existing Concrete, Masonry or Asphalt Assessment^(02 25)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 25 16 13 Concrete Assessment Drilling^(02 25 16)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 30 Subsurface Investigation⁽⁰²⁾

02 32 Geotechnical Investigations^(02 30)

02 32 13 Subsurface Drilling and Sampling^(02 32)

See CSI section 01 45 23 00-0000 for testing and lab reports.

02 32 13 00-0001 Mobilization Of Drilling Crew^(02 32 13)

02 32 13 00-0002 EA Mobilization Of Drilling Crew 1,333.05

02 32 13 00-0003 Auger Borings^(02 32 13)

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 40.15

02 32 13 00-0005 Cased Borings In Earth, With Samples^(02 32 13)

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 102.18

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 174.75

02 32 13 00-0008 Drilling In Rock, BW Core (2.125")^(02 32 13)

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 108.19

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 10.19

02 32 13 00-0011 Drilling In Rock, NW Core (2.98")^(02 32 13)

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 139.87

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 11.71

02 32 13 00-0014 Test Pits For Boring Activities^(02 32 13)

Note: Excludes backfill. See CSI section 31 23 16 36-0016 for backfill.

02 32 13 00-0015 Backhoe Dug Test Pits^(02 32 13 00-0014)

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 77.74

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 90.69

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 120.93

02 32 13 00-0019 Hand-Dug Test Pits^(02 32 13 00-0014)

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 213.44

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 384.19

02 32 13 00-0022 Shelby Tube Sampling^(02 32 13)

02 32 13 00-0023 EA Shelby Tube Sampling 57.38

02 32 13 00-0024 EA Penetration Test 46.75

02 32 13 00-0025 Grouting^(02 32 13)

02 32 13 00-0026 VLF Boreholes 10.88

02 32 19 Exploratory Excavations^(02 32)

02 32 19 00-0001 Hydro Excavation^(02 32 19)

Note: Assumes on-site disposal. See CSI section 01 22 23 00-1372 for additional water per day, 01 71 13 00-0000 for additional support equipment mobilization, 01 74 19 00-0033 for off-site disposal fee of material, 01 74 19 00-0043 for hauling excavated soil from site.

02 32 19 00-0002 EA Minimum Charge For Hydro Excavation 1,673.63

Note: For projects where the total charge is less than the "Hydro Excavation Minimum" cost, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 32 19 00-0003 EA 600 to 750 Gallon Water Capacity, 6 To 9 CY Soil Capacity, Hydro Excavation, Mobilization/Demobilization Per Day 956.36

Note: Includes initial water.

02 Existing Conditions**02 30 Subsurface Investigation****02 32 Geotechnical Investigations**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 32 19 00-0004	EA		1,200 To 1,500 Gallon Water Capacity, 12 To 15 CY Soil Capacity, Hydro Excavation, Mobilization/Demobilization Per Day.....	1,195.45	
			Note: Includes initial water		
02 32 19 00-0005	EA		Move And Set-up At Different Access/Location, Hydro Excavation	119.54	
02 32 19 00-0006	CY		Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck)	99.70	
			Note: Normal soil conditions consist of silt, sand and gravel.		
02 32 19 00-0007	CY		Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....	159.48	
			Note: Adverse soil conditions consist of clay, glacial till and rocks.		

02 40 Demolition and Structure Moving ⁽⁰²⁾**02 41 Demolition** ^(02 40)**02 41 13 Selective Site Demolition** ^(02 41)**02 41 13 13 Paving Removal** ^(02 41 13)**02 41 13 13-0001 By Machine, Break-up And Leave In Place Bituminous And Concrete Paving** ^(02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0017 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0057 for saw cutting.

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	8.29	
		For >500 To 1,000, Deduct	-0.83	
		For >1,000 To 2,500, Deduct	-1.49	
		For >2,500 To 5,000, Deduct	-2.16	
		For >5,000 To 10,000, Deduct	-2.82	
		For >10,000, Deduct	-3.48	
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	12.42	
		For >500 To 1,000, Deduct	-1.24	
		For >1,000 To 2,500, Deduct	-2.24	
		For >2,500 To 5,000, Deduct	-3.23	
		For >5,000 To 10,000, Deduct	-4.22	
		For >10,000, Deduct	-5.22	
02 41 13 13-0004	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	15.65	
		For >500 To 1,000, Deduct	-1.57	
		For >1,000 To 2,500, Deduct	-2.82	
		For >2,500 To 5,000, Deduct	-4.07	
		For >5,000 To 10,000, Deduct	-5.32	
		For >10,000, Deduct	-6.57	
02 41 13 13-0005	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	22.09	
		For >500 To 1,000, Deduct	-2.21	
		For >1,000 To 2,500, Deduct	-3.98	
		For >2,500 To 5,000, Deduct	-5.74	
		For >5,000 To 10,000, Deduct	-7.51	
		For >10,000, Deduct	-9.28	
02 41 13 13-0006	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	31.30	
		For >500 To 1,000, Deduct	-3.13	
		For >1,000 To 2,500, Deduct	-5.63	
		For >2,500 To 5,000, Deduct	-8.14	
		For >5,000 To 10,000, Deduct	-10.64	
		For >10,000, Deduct	-13.15	
02 41 13 13-0007	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving	44.18	
		For >500 To 1,000, Deduct	-4.42	
		For >1,000 To 2,500, Deduct	-7.95	
		For >2,500 To 5,000, Deduct	-11.49	
		For >5,000 To 10,000, Deduct	-15.02	
		For >10,000, Deduct	-18.56	
02 41 13 13-0008	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving	57.78	
		For >500 To 1,000, Deduct	-5.78	
		For >1,000 To 2,500, Deduct	-10.40	
		For >2,500 To 5,000, Deduct	-15.02	
		For >5,000 To 10,000, Deduct	-19.65	
		For >10,000, Deduct	-24.27	
02 41 13 13-0009	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving	75.12	
		For >500 To 1,000, Deduct	-7.51	
		For >1,000 To 2,500, Deduct	-13.52	
		For >2,500 To 5,000, Deduct	-19.53	
		For >5,000 To 10,000, Deduct	-25.54	
		For >10,000, Deduct	-31.55	

02 41 13 13-0010 By Hand, Break-up And Leave In Place Bituminous And Concrete Paving ^(02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0017 for breaking-up, removal and loading as a combined operation, 02 41 13 13-0036 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0057 for saw cutting.

02 41 13 13-0011	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	2.00	
02 41 13 13-0012	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	2.55	
02 41 13 13-0013	SF	>6" To 9" By Hand, Break-up And Leave In Place Bituminous Paving	3.37	
02 41 13 13-0014	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	2.52	



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0015	SF		>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	3.19	
02 41 13 13-0016	SF		>6" To 9" By Hand, Break-up And Leave In Place Concrete Paving	4.21	
02 41 13 13-0017			By Machine, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13) Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Removal depth to include base aggregate. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 13 13-0018	SY		Up To 3" By Machine, Break-up And Remove Bituminous Paving	17.47	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.24	
			For Elevated Slab, Add	8.74	
			For >500 To 1,000, Deduct	-1.75	
			For >1,000 To 2,500, Deduct	-3.14	
			For >2,500 To 5,000, Deduct	-4.54	
			For >5,000 To 10,000, Deduct	-5.94	
			For >10,000, Deduct	-7.34	
02 41 13 13-0019	SY		>3" To 6" By Machine, Break-up And Remove Bituminous Paving	23.84	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	7.15	
			For Elevated Slab, Add	11.92	
			For >500 To 1,000, Deduct	-2.38	
			For >1,000 To 2,500, Deduct	-4.29	
			For >2,500 To 5,000, Deduct	-6.20	
			For >5,000 To 10,000, Deduct	-8.11	
			For >10,000, Deduct	-10.01	
02 41 13 13-0020	SY		>6" To 9" By Machine, Break-up And Remove Bituminous Paving	33.08	
			For Elevated Slab, Add	16.54	
			For >500 To 1,000, Deduct	-3.31	
			For >1,000 To 2,500, Deduct	-5.95	
			For >2,500 To 5,000, Deduct	-8.60	
			For >5,000 To 10,000, Deduct	-11.25	
			For >10,000, Deduct	-13.89	
02 41 13 13-0021	SY		>9" To 12" By Machine, Break-up And Remove Bituminous Paving	43.17	
			For Elevated Slab, Add	21.59	
			For >500 To 1,000, Deduct	-4.32	
			For >1,000 To 2,500, Deduct	-7.77	
			For >2,500 To 5,000, Deduct	-11.22	
			For >5,000 To 10,000, Deduct	-14.68	
			For >10,000, Deduct	-18.13	
02 41 13 13-0022	SY		>12" To 15" By Machine, Break-up And Remove Bituminous Paving	60.09	
			For Elevated Slab, Add	30.05	
			For >500 To 1,000, Deduct	-6.01	
			For >1,000 To 2,500, Deduct	-10.82	
			For >2,500 To 5,000, Deduct	-15.62	
			For >5,000 To 10,000, Deduct	-20.43	
			For >10,000, Deduct	-25.24	
02 41 13 13-0023	SY		Up To 3" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	20.09	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.03	
			For Elevated Slab, Add	10.05	
			For >500 To 1,000, Deduct	-2.01	
			For >1,000 To 2,500, Deduct	-3.62	
			For >2,500 To 5,000, Deduct	-5.22	
			For >5,000 To 10,000, Deduct	-6.83	
			For >10,000, Deduct	-8.44	
02 41 13 13-0024	SY		>3" To 6" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	26.29	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	7.89	
			For Elevated Slab, Add	13.15	
			For >500 To 1,000, Deduct	-2.63	
			For >1,000 To 2,500, Deduct	-4.73	
			For >2,500 To 5,000, Deduct	-6.84	
			For >5,000 To 10,000, Deduct	-8.94	
			For >10,000, Deduct	-11.04	
02 41 13 13-0025	SY		>6" To 9" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	46.95	
			For Elevated Slab, Add	23.48	
			For >500 To 1,000, Deduct	-4.70	
			For >1,000 To 2,500, Deduct	-8.45	
			For >2,500 To 5,000, Deduct	-12.21	
			For >5,000 To 10,000, Deduct	-15.96	
			For >10,000, Deduct	-19.72	
02 41 13 13-0026	SY		>9" To 14" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	61.33	
			For Elevated Slab, Add	30.67	
			For >500 To 1,000, Deduct	-6.13	
			For >1,000 To 2,500, Deduct	-11.04	
			For >2,500 To 5,000, Deduct	-15.95	
			For >5,000 To 10,000, Deduct	-20.85	
			For >10,000, Deduct	-25.76	
02 41 13 13-0027	SY		Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	26.66	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	8.00	
			For Elevated Slab, Add	13.33	
			For >500 To 1,000, Deduct	-2.67	
			For >1,000 To 2,500, Deduct	-4.80	
			For >2,500 To 5,000, Deduct	-6.93	
			For >5,000 To 10,000, Deduct	-9.06	
			For >10,000, Deduct	-11.20	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0028 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	34.55	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	10.37	
For Elevated Slab, Add	17.28	
For >500 To 1,000, Deduct	-3.46	
For >1,000 To 2,500, Deduct	-6.22	
For >2,500 To 5,000, Deduct	-8.98	
For >5,000 To 10,000, Deduct	-11.75	
For >10,000, Deduct	-14.51	
02 41 13 13-0029 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	57.27	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	17.18	
For Elevated Slab, Add	28.64	
For >500 To 1,000, Deduct	-5.73	
For >1,000 To 2,500, Deduct	-10.31	
For >2,500 To 5,000, Deduct	-14.89	
For >5,000 To 10,000, Deduct	-19.47	
For >10,000, Deduct	-24.05	
02 41 13 13-0030 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	28.92	
For Elevated Slab, Add	14.46	
For >500 To 1,000, Deduct	-2.89	
For >1,000 To 2,500, Deduct	-5.21	
For >2,500 To 5,000, Deduct	-7.52	
For >5,000 To 10,000, Deduct	-9.83	
For >10,000, Deduct	-12.15	
02 41 13 13-0031 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	37.18	
For Elevated Slab, Add	18.59	
For >500 To 1,000, Deduct	-3.72	
For >1,000 To 2,500, Deduct	-6.69	
For >2,500 To 5,000, Deduct	-9.67	
For >5,000 To 10,000, Deduct	-12.64	
For >10,000, Deduct	-15.62	
02 41 13 13-0032 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	66.47	
For Elevated Slab, Add	33.24	
For >500 To 1,000, Deduct	-6.65	
For >1,000 To 2,500, Deduct	-11.96	
For >2,500 To 5,000, Deduct	-17.28	
For >5,000 To 10,000, Deduct	-22.60	
For >10,000, Deduct	-27.92	
02 41 13 13-0033 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	86.76	
For Elevated Slab, Add	43.38	
For >500 To 1,000, Deduct	-8.68	
For >1,000 To 2,500, Deduct	-15.62	
For >2,500 To 5,000, Deduct	-22.56	
For >5,000 To 10,000, Deduct	-29.50	
For >10,000, Deduct	-36.44	
02 41 13 13-0034 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	113.42	
For Elevated Slab, Add	56.71	
For >500 To 1,000, Deduct	-11.34	
For >1,000 To 2,500, Deduct	-20.42	
For >2,500 To 5,000, Deduct	-29.49	
For >5,000 To 10,000, Deduct	-38.56	
For >10,000, Deduct	-47.64	
02 41 13 13-0035 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	137.65	
For Elevated Slab, Add	68.83	
For >500 To 1,000, Deduct	-13.77	
For >1,000 To 2,500, Deduct	-24.78	
For >2,500 To 5,000, Deduct	-35.79	
For >5,000 To 10,000, Deduct	-46.80	
For >10,000, Deduct	-57.81	
02 41 13 13-0036 By Hand, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13)		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Removal depth to include base aggregate. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 13 13-0037 SF >6" To 9" By Hand, Break-up And Remove Bituminous Paving.....	7.66	
02 41 13 13-0038 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	5.60	
02 41 13 13-0039 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	7.74	
02 41 13 13-0040 SF >6" To 9" By Hand, Break-up And Remove Concrete Paving.....	9.90	
02 41 13 13-0041 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	7.84	
02 41 13 13-0042 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	10.82	
02 41 13 13-0043 SF >6" To 9" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	13.87	
02 41 13 13-0044 Grind Concrete (02 41 13 13)		



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0045 EA Grind Existing Sidewalks, Up To 1/2" Depth, To Remove Ridges (Tripping Hazard).....281.52 Note: For each location up to 5' wide, feather up to 12" each direction. For >1/2" To 1" Depth Of Grinding, Add 42.23 For >1" To 1-1/2" Depth Of Grinding, Add 70.38 For Up To 5, Add 56.30 For >5 To 10, Add 28.15 For >25 To 50, Deduct -28.15 For >50 To 250, Deduct -42.23 For >250, Deduct -56.30 For Sidewalks >5', Add 28.15 For Up To 12" Additional Feathering Per Side, Add 28.15		
02 41 13 13-0046 Repair Uneven Sidewalks (02 41 13 13) Note: (1 inch foot = 1 inch high X 1 linear foot long). Example for sample trip hazard: 1/2" high on one side, Zero on the other side, 4 linear foot long. Calculation for height would be: (1/2 + 0)/2 = 1/4 inch average. Calculation for length would be: 1/4 inch average X 4 feet = 1 inch foot.		
02 41 13 13-0047 IF Up To 2,000 Inch Feet Repair Uneven Sidewalks 96.75		
02 41 13 13-0048 IF 2,000 To 3,000 Inch Feet Repair Uneven Sidewalks 91.79		
02 41 13 13-0049 IF 3,000 And Up Inch Feet Repair Uneven Sidewalks 86.83		
02 41 13 15 Hydro Demolition (02 41 13)		
02 41 13 15-0001 Hydro Demolition Of Concrete Pavement (02 41 13 15) Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....8.57		
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....10.71		
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....14.33		
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....28.52		
02 41 19 Selective Demolition (02 41)		
02 41 19 13 Selective Building Demolition (02 41 19)		
02 41 19 13-0001 Exterior Masonry Removal (02 41 19 13)		
02 41 19 13-0002 Masonry Columns Removal (Interior And Exterior) (02 41 19 13-0001)		
02 41 19 13-0003 VLF 8" x 8" Masonry Column Removal 16.11		
02 41 19 13-0004 VLF 10" x 10" Masonry Column Removal 25.17		
02 41 19 13-0005 VLF 12" x 12" Masonry Column Removal 32.24		
02 41 19 13-0006 VLF 14" x 14" Masonry Column Removal 40.36		
02 41 19 13-0007 VLF 16" x 16" Masonry Column Removal 49.59		
02 41 19 13-0008 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square 27.84		
02 41 19 13-0009 Masonry Chimney Removal (02 41 19 13-0001)		
02 41 19 13-0010 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed 32.67		
02 41 19 13-0011 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed 24.53		
02 41 19 13-0012 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed 18.77		
02 41 19 13-0013 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed 13.00		
02 41 19 13-0014 Remove And Reset Precast, Stone Or Masonry Coping (02 41 19 13-0001) Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0015 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping 22.81		
02 41 19 13-0016 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping 34.03		
02 41 19 13-0017 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping 64.90		
02 41 19 13-0018 Facade Removal (02 41 19 13-0001) Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0019 SF Stone Or Brick Veneer Facade Removal 6.13 For Cleaning and Storage For Reuse, Add 9.20 For Reinforcing, Add 0.92		
02 41 19 13-0020 Exterior Masonry Removal (02 41 19 13-0001) Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0021 SF Demolish 4" Thick Non-Reinforced Concrete Block Exterior Wall 5.40		
02 41 19 13-0022 SF Demolish 6" Thick Non-Reinforced Concrete Block Exterior Wall 6.09		
02 41 19 13-0023 SF Demolish 8" Thick Non-Reinforced Concrete Block Exterior Wall 7.36		
02 41 19 13-0024 SF Demolish 10" Thick Non-Reinforced Concrete Block Exterior Wall 8.05		
02 41 19 13-0025 SF Demolish 12" Thick Non-Reinforced Concrete Block Exterior Wall 8.83		
02 41 19 13-0026 SF Demolish 16" Thick Non-Reinforced Concrete Block Exterior Wall 11.04		
02 41 19 13-0027 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall 6.37		

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0028 SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall	7.30	
02 41 19 13-0029 SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall	8.83	
02 41 19 13-0030 SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall	9.66	
02 41 19 13-0031 SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall	10.59	
02 41 19 13-0032 SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall	13.26	
02 41 19 13-0033 SF Demolish 4" Thick Brick Exterior Wall	5.40	
For Cleaning and Storage For Reuse, Add	8.10	
02 41 19 13-0034 SF Demolish 6" Thick Brick Exterior Wall	6.09	
For Cleaning and Storage For Reuse, Add	9.14	
02 41 19 13-0035 SF Demolish 8" Thick Brick Exterior Wall	7.36	
For Cleaning and Storage For Reuse, Add	11.04	
02 41 19 13-0036 SF Demolish 10" Thick Brick Exterior Wall	8.05	
For Cleaning and Storage For Reuse, Add	12.08	
02 41 19 13-0037 SF Demolish 12" Thick Brick Exterior Wall	8.83	
For Cleaning and Storage For Reuse, Add	13.25	
02 41 19 13-0038 SF Demolish 16" Thick Brick Exterior Wall	11.04	
For Cleaning and Storage For Reuse, Add	16.56	
02 41 19 13-0039 CF Exterior Brick, Concrete Block Or Composite Removal	15.69	
For Cleaning and Storage For Reuse, Add	23.54	
For Reinforcing, Add	2.35	
02 41 19 13-0040 Lintel Removal (02 41 19 13-0001)		
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0041 LF Demolish Steel Lintel	14.99	
02 41 19 13-0042 LF Demolish Concrete Or Stone Lintel	19.99	
02 41 19 13-0043 LF Demolish Steel Shelf Angle	15.83	
02 41 19 13-0044 Reinstall Lintel (02 41 19 13-0001)		
Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0045 LF Clean, Prime And Paint Steel Shelf Angle Or Lintel	10.17	
02 41 19 13-0046 LF Reinstall Existing Concrete Or Stone Lintel	19.99	
02 41 19 13-0047 LF Reinstall Existing Steel Shelf Angle	55.21	
Note: Includes fasteners.		
02 41 19 13-0048 LF Reinstall Existing Steel Lintel	22.22	
02 41 19 13-0049 LF Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	91.25	
02 41 19 13-0050 LF Removal And Replacement Of Steel Lintel Over Window Openings	169.38	
02 41 19 13-0051 Exterior Concrete Wall Removal (02 41 19 13)		
02 41 19 13-0052 SF Demolish 4" Thick Reinforced Concrete Exterior Wall	7.46	
02 41 19 13-0053 SF Demolish 6" Thick Reinforced Concrete Exterior Wall	13.53	
02 41 19 13-0054 SF Demolish 8" Thick Reinforced Concrete Exterior Wall	17.00	
02 41 19 13-0055 SF Demolish 10" Thick Reinforced Concrete Exterior Wall	20.06	
02 41 19 13-0056 SF Demolish 12" Thick Reinforced Concrete Exterior Wall	23.71	
02 41 19 13-0057 Saw Cutting (02 41 19 13)		
Note: Includes blade wear, water, taping off area, layout, cleanup and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0058 EA Saw Cut Minimum Set-up Charge, One Per Project	1,222.33	
Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0059 LF Bituminous Paving Up To 4" Depth, Saw Cut	2.74	
For Each Additional Pass (Depth To 3"), Add	1.05	
For >250, Deduct	-0.26	
02 41 19 13-0060 LF Brick Masonry Up To 4" Depth, Saw Cut	10.08	
For Each Additional Pass (Depth To 3"), Add	3.98	
For >250, Deduct	-0.99	
02 41 19 13-0061 LF Concrete Block Up To 4" Depth, Saw Cut	9.12	
For Each Additional Pass (Depth To 3"), Add	3.59	
For >250, Deduct	-0.89	
02 41 19 13-0062 LF Non-Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	3.16	
For Each Additional Pass (Depth To 3"), Add	1.20	
For >250, Deduct	-0.29	
02 41 19 13-0063 LF Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	4.15	
For Each Additional Pass (Depth To 3"), Add	1.58	
For >250, Deduct	-0.39	
02 41 19 13-0064 LF Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	6.78	
For Each Additional Pass (Depth To 3"), Add	2.63	
For >250, Deduct	-0.65	
02 41 19 13-0065 LF Plain Concrete Walls Up To 4" Depth, Saw Cut	12.86	
For Each Additional Pass (Depth To 3"), Add	5.08	
For >250, Deduct	-1.26	
02 41 19 13-0066 LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth	17.28	
For Each Additional Pass (Depth To 3"), Add	6.83	
For >250, Deduct	-1.70	



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0067 LF Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets..... For Each Additional Pass (Depth To 3"), Add For >250, Deduct	3.43 1.24 -0.30	
02 41 19 13-0068 LF Igneous Stone Pavements Up To 4" Depth, Saw Cut..... For Each Additional Pass (Depth To 3"), Add For >250, Deduct	9.16 3.60 -0.89	
02 41 19 13-0069 LF Sedimentary Stone Pavements Up To 4" Depth, Saw Cut..... For Each Additional Pass (Depth To 3"), Add For >250, Deduct	9.16 3.60 -0.89	
02 41 19 13-0070 LF Metamorphic Stone Pavements Up To 4" Depth, Saw Cut..... For Each Additional Pass (Depth To 3"), Add For >250, Deduct	9.16 3.60 -0.89	
02 41 19 13-0071 LF Terrazzo Stone Pavements Up To 4" Depth, Saw Cut..... For Each Additional Pass (Depth To 3"), Add For >250, Deduct	9.16 3.60 -0.89	
02 41 19 13-0072 Torch Cutting (02 41 19 13)		
Note: Includes grinding edge		
02 41 19 13-0073 LF Up To 1/2", Torch Cut Steel Plate.....	3.33	
02 41 19 13-0074 LF >1/2" To 1" Thick, Torch Cut Steel Plate.....	6.68	
02 41 19 13-0075 LF >1" To 1-1/2" Thick, Torch Cut Steel Plate.....	10.00	
02 41 19 13-0076 LF >1-1/2" To 2" Thick, Torch Cut Steel Plate.....	13.34	
02 41 19 13-0077 LF >2" To 2-1/2" Thick, Torch Cut Steel Plate.....	16.68	
02 41 19 13-0078 LF >2-1/2" To 3" Thick, Torch Cut Steel Plate.....	20.01	
02 41 19 13-0079 EA Minimum Charge For Torch Cutting.....	1,088.18	
Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0080 Drilling In Existing Materials (02 41 19 13)		
Note: Includes drill bit wear, water, layout, set-up and cleanup.		
02 41 19 13-0081 Concrete Core Drilling (02 41 19 13-0080)		
02 41 19 13-0082 Up To 4" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0083 EA Drill 1" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	48.71 9.64 19.28	
02 41 19 13-0084 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.04 10.70 21.41	
02 41 19 13-0085 EA Drill 2" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	60.01 11.90 23.80	
02 41 19 13-0086 EA Drill 3" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	85.67 16.99 33.99	
02 41 19 13-0087 EA Drill 4" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	114.81 22.77 45.55	
02 41 19 13-0088 EA Drill 6" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.64 25.49 50.98	
02 41 19 13-0089 EA Drill 8" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	205.57 40.79 81.58	
02 41 19 13-0090 EA Drill 10" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	257.14 50.99 101.97	
02 41 19 13-0091 EA Drill 12" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	300.08 59.49 118.97	
02 41 19 13-0092 EA Drill 14" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	343.03 67.97 135.95	
02 41 19 13-0093 EA Drill 18" Diameter Core In Up To 4" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	386.40 76.47 152.94	
02 41 19 13-0094 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0095 EA Drill 1" Diameter Core In >4" To 6" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	69.61 13.76 27.52	
02 41 19 13-0096 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	77.26 15.29 30.58	
02 41 19 13-0097 EA Drill 2" Diameter Core In >4" To 6" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	85.76 16.99 33.98	
02 41 19 13-0098 EA Drill 3" Diameter Core In >4" To 6" Concrete..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	103.06 20.39 40.79	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0099	EA	Drill 4" Diameter Core In >4" To 6" Concrete.....	128.90	
		<i>For Horizontal Cores, Add</i>	25.49	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	50.98	
02 41 19 13-0100	EA	Drill 6" Diameter Core In >4" To 6" Concrete.....	171.75	
		<i>For Horizontal Cores, Add</i>	33.99	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	67.98	
02 41 19 13-0101	EA	Drill 8" Diameter Core In >4" To 6" Concrete.....	257.39	
		<i>For Horizontal Cores, Add</i>	50.99	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	101.97	
02 41 19 13-0102	EA	Drill 10" Diameter Core In >4" To 6" Concrete.....	300.74	
		<i>For Horizontal Cores, Add</i>	59.49	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	118.97	
02 41 19 13-0103	EA	Drill 12" Diameter Core In >4" To 6" Concrete.....	343.84	
		<i>For Horizontal Cores, Add</i>	67.97	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	135.95	
02 41 19 13-0104	EA	Drill 14" Diameter Core In >4" To 6" Concrete.....	387.16	
		<i>For Horizontal Cores, Add</i>	76.47	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	152.94	
02 41 19 13-0105	EA	Drill 18" Diameter Core In >4" To 6" Concrete.....	431.11	
		<i>For Horizontal Cores, Add</i>	84.97	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	169.94	
02 41 19 13-0106 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0081)				
02 41 19 13-0107	EA	Drill 1" Diameter Core In >6" To 8" Concrete.....	76.79	
		<i>For Horizontal Cores, Add</i>	15.14	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.28	
02 41 19 13-0108	EA	Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	85.20	
		<i>For Horizontal Cores, Add</i>	16.82	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.65	
02 41 19 13-0109	EA	Drill 2" Diameter Core In >6" To 8" Concrete.....	94.55	
		<i>For Horizontal Cores, Add</i>	18.69	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	37.39	
02 41 19 13-0110	EA	Drill 3" Diameter Core In >6" To 8" Concrete.....	111.96	
		<i>For Horizontal Cores, Add</i>	22.09	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	44.19	
02 41 19 13-0111	EA	Drill 4" Diameter Core In >6" To 8" Concrete.....	146.40	
		<i>For Horizontal Cores, Add</i>	28.89	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	57.78	
02 41 19 13-0112	EA	Drill 6" Diameter Core In >6" To 8" Concrete.....	206.36	
		<i>For Horizontal Cores, Add</i>	40.79	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.58	
02 41 19 13-0113	EA	Drill 8" Diameter Core In >6" To 8" Concrete.....	343.16	
		<i>For Horizontal Cores, Add</i>	67.97	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	135.95	
02 41 19 13-0114	EA	Drill 10" Diameter Core In >6" To 8" Concrete.....	386.75	
		<i>For Horizontal Cores, Add</i>	76.47	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	152.94	
02 41 19 13-0115	EA	Drill 12" Diameter Core In >6" To 8" Concrete.....	430.14	
		<i>For Horizontal Cores, Add</i>	84.97	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	169.94	
02 41 19 13-0116	EA	Drill 14" Diameter Core In >6" To 8" Concrete.....	473.75	
		<i>For Horizontal Cores, Add</i>	93.45	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	186.90	
02 41 19 13-0117	EA	Drill 18" Diameter Core In >6" To 8" Concrete.....	518.29	
		<i>For Horizontal Cores, Add</i>	101.97	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	203.94	
02 41 19 13-0118 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0081)				
02 41 19 13-0119	EA	Drill 1" Diameter Core In >8" To 10" Concrete.....	90.84	
		<i>For Horizontal Cores, Add</i>	17.89	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.79	
02 41 19 13-0120	EA	Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	100.79	
		<i>For Horizontal Cores, Add</i>	19.88	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.77	
02 41 19 13-0121	EA	Drill 2" Diameter Core In >8" To 10" Concrete.....	111.84	
		<i>For Horizontal Cores, Add</i>	22.09	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	44.19	
02 41 19 13-0122	EA	Drill 3" Diameter Core In >8" To 10" Concrete.....	129.34	
		<i>For Horizontal Cores, Add</i>	25.49	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	50.98	
02 41 19 13-0123	EA	Drill 4" Diameter Core In >8" To 10" Concrete.....	146.90	
		<i>For Horizontal Cores, Add</i>	28.89	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	57.78	
02 41 19 13-0124	EA	Drill 6" Diameter Core In >8" To 10" Concrete.....	206.97	
		<i>For Horizontal Cores, Add</i>	40.79	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.58	
02 41 19 13-0125	EA	Drill 8" Diameter Core In >8" To 10" Concrete.....	343.99	
		<i>For Horizontal Cores, Add</i>	67.97	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	135.95	
02 41 19 13-0126	EA	Drill 10" Diameter Core In >8" To 10" Concrete.....	387.84	
		<i>For Horizontal Cores, Add</i>	76.47	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	152.94	



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0127 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	431.38	
For Horizontal Cores, Add	84.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	169.91	
02 41 19 13-0128 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	475.41	
For Horizontal Cores, Add	93.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	186.90	
02 41 19 13-0129 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	520.36	
For Horizontal Cores, Add	101.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	203.89	
02 41 19 13-0130 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0131 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	98.02	
For Horizontal Cores, Add	19.27	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	38.55	
02 41 19 13-0132 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	108.72	
For Horizontal Cores, Add	21.41	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	42.83	
02 41 19 13-0133 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	120.62	
For Horizontal Cores, Add	23.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	47.59	
02 41 19 13-0134 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	129.74	
For Horizontal Cores, Add	25.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	50.98	
02 41 19 13-0135 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	172.91	
For Horizontal Cores, Add	33.99	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	67.98	
02 41 19 13-0136 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	224.59	
For Horizontal Cores, Add	44.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	88.38	
02 41 19 13-0137 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	361.84	
For Horizontal Cores, Add	71.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	142.76	
02 41 19 13-0138 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	388.94	
For Horizontal Cores, Add	76.47	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	152.94	
02 41 19 13-0139 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	449.81	
For Horizontal Cores, Add	88.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	176.76	
02 41 19 13-0140 >12" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0141 IN Drill 1" Diameter Core In >12" Concrete.....	11.92	
For Horizontal Cores, Add	2.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.71	
02 41 19 13-0142 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	13.23	
For Horizontal Cores, Add	2.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.24	
02 41 19 13-0143 IN Drill 2" Diameter Core In >12" Concrete.....	14.68	
For Horizontal Cores, Add	2.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.82	
02 41 19 13-0144 IN Drill 3" Diameter Core In >12" Concrete.....	16.11	
For Horizontal Cores, Add	3.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	6.37	
02 41 19 13-0145 IN Drill 4" Diameter Core In >12" Concrete.....	21.49	
For Horizontal Cores, Add	4.25	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	8.50	
02 41 19 13-0146 IN Drill 6" Diameter Core In >12" Concrete.....	27.93	
For Horizontal Cores, Add	5.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.05	
02 41 19 13-0147 IN Drill 8" Diameter Core In >12" Concrete.....	45.06	
For Horizontal Cores, Add	8.93	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.86	
02 41 19 13-0148 IN Drill 10" Diameter Core In >12" Concrete.....	48.54	
For Horizontal Cores, Add	9.60	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.20	
02 41 19 13-0149 IN Drill 12" Diameter Core In >12" Concrete.....	55.93	
For Horizontal Cores, Add	11.05	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.11	
02 41 19 13-0150 Brick/Concrete Block Core Drilling (02 41 19 13-0080)		
02 41 19 13-0151 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0152 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block.....	39.07	
For Horizontal Cores, Add	7.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.42	
02 41 19 13-0153 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block.....	43.34	
For Horizontal Cores, Add	8.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.13	
02 41 19 13-0154 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block.....	48.11	
For Horizontal Cores, Add	9.52	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.04	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0155 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block.....	68.68	
For Horizontal Cores, Add	13.60	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.19	
02 41 19 13-0156 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block.....	92.03	
For Horizontal Cores, Add	18.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	36.44	
02 41 19 13-0157 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block.....	103.15	
For Horizontal Cores, Add	20.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	40.79	
02 41 19 13-0158 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block.....	164.78	
For Horizontal Cores, Add	32.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	65.26	
02 41 19 13-0159 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block.....	206.15	
For Horizontal Cores, Add	40.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	81.58	
02 41 19 13-0160 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block.....	240.59	
For Horizontal Cores, Add	47.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	95.18	
02 41 19 13-0161 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block.....	275.06	
For Horizontal Cores, Add	54.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	108.76	
02 41 19 13-0162 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block.....	309.94	
For Horizontal Cores, Add	61.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	122.35	
02 41 19 13-0163 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0164 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block.....	55.85	
For Horizontal Cores, Add	11.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.02	
02 41 19 13-0165 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block.....	61.97	
For Horizontal Cores, Add	12.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.47	
02 41 19 13-0166 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block.....	68.76	
For Horizontal Cores, Add	13.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.18	
02 41 19 13-0167 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block.....	82.67	
For Horizontal Cores, Add	16.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.63	
02 41 19 13-0168 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block.....	103.41	
For Horizontal Cores, Add	20.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	40.79	
02 41 19 13-0169 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block.....	137.76	
For Horizontal Cores, Add	27.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.38	
02 41 19 13-0170 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block.....	206.40	
For Horizontal Cores, Add	40.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	81.58	
02 41 19 13-0171 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block.....	241.25	
For Horizontal Cores, Add	47.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	95.18	
02 41 19 13-0172 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block.....	275.87	
For Horizontal Cores, Add	54.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	108.76	
02 41 19 13-0173 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block.....	310.70	
For Horizontal Cores, Add	61.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	122.35	
02 41 19 13-0174 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block.....	346.14	
For Horizontal Cores, Add	67.98	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	135.96	
02 41 19 13-0175 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0176 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block.....	61.65	
For Horizontal Cores, Add	12.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.23	
02 41 19 13-0177 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block.....	68.38	
For Horizontal Cores, Add	13.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.92	
02 41 19 13-0178 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block.....	75.86	
For Horizontal Cores, Add	14.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.91	
02 41 19 13-0179 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block.....	89.87	
For Horizontal Cores, Add	17.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.35	
02 41 19 13-0180 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block.....	117.51	
For Horizontal Cores, Add	23.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	46.22	
02 41 19 13-0181 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block.....	165.57	
For Horizontal Cores, Add	32.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	65.26	
02 41 19 13-0182 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block.....	275.19	
For Horizontal Cores, Add	54.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	108.76	



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0183 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	310.29 61.18 122.35	
02 41 19 13-0184 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	345.17 67.98 135.96	
02 41 19 13-0185 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	380.31 74.76 149.53	
02 41 19 13-0186 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	416.32 81.58 163.15	
02 41 19 13-0187 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0188 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	72.95 14.32 28.63	
02 41 19 13-0189 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	80.90 15.91 31.81	
02 41 19 13-0190 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	89.74 17.67 35.35	
02 41 19 13-0191 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	103.85 20.39 40.79	
02 41 19 13-0192 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	118.01 23.11 46.22	
02 41 19 13-0193 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	166.18 32.63 65.26	
02 41 19 13-0194 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	276.02 54.38 108.76	
02 41 19 13-0195 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	311.38 61.18 122.35	
02 41 19 13-0196 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	346.42 67.96 135.93	
02 41 19 13-0197 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	381.97 74.76 149.53	
02 41 19 13-0198 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	418.42 81.56 163.12	
02 41 19 13-0199 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0200 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.74 15.42 30.84	
02 41 19 13-0201 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.31 17.13 34.26	
02 41 19 13-0202 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	96.82 19.03 38.07	
02 41 19 13-0203 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.25 20.39 40.79	
02 41 19 13-0204 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	138.92 27.19 54.38	
02 41 19 13-0205 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	180.40 35.35 70.70	
02 41 19 13-0206 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	290.46 57.10 114.20	
02 41 19 13-0207 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	312.48 61.18 122.35	
02 41 19 13-0208 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	361.42 70.70 141.40	
02 41 19 13-0209 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0210 IN Drill 1" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	9.56 1.88 3.77	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0211	IN	Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block	10.61	
		<i>For Horizontal Cores, Add</i>	2.09	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.19	
02 41 19 13-0212	IN	Drill 2" Diameter Core In >12" Brick/Concrete Block.....	11.77	
		<i>For Horizontal Cores, Add</i>	2.33	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.65	
02 41 19 13-0213	IN	Drill 3" Diameter Core In >12" Brick/Concrete Block.....	12.93	
		<i>For Horizontal Cores, Add</i>	2.55	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.10	
02 41 19 13-0214	IN	Drill 4" Diameter Core In >12" Brick/Concrete Block.....	17.24	
		<i>For Horizontal Cores, Add</i>	3.40	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	6.80	
02 41 19 13-0215	IN	Drill 6" Diameter Core In >12" Brick/Concrete Block.....	22.40	
		<i>For Horizontal Cores, Add</i>	4.42	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	8.84	
02 41 19 13-0216	IN	Drill 8" Diameter Core In >12" Brick/Concrete Block.....	36.13	
		<i>For Horizontal Cores, Add</i>	7.14	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.29	
02 41 19 13-0217	IN	Drill 10" Diameter Core In >12" Brick/Concrete Block.....	38.95	
		<i>For Horizontal Cores, Add</i>	7.68	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.36	
02 41 19 13-0218	IN	Drill 12" Diameter Core In >12" Brick/Concrete Block.....	44.88	
		<i>For Horizontal Cores, Add</i>	8.84	
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	17.69	
02 41 19 13-0219		Asphalt Core Drilling (02 41 19 13-0080)		
02 41 19 13-0220		Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0221	EA	Drill 1" Diameter Core In Up To 2" Asphalt	23.37	
02 41 19 13-0222	EA	Drill 1-1/2" Diameter Core In Up To 2" Asphalt	29.22	
02 41 19 13-0223	EA	Drill 2" Diameter Core In Up To 2" Asphalt	36.52	
02 41 19 13-0224	EA	Drill 3" Diameter Core In Up To 2" Asphalt	45.30	
02 41 19 13-0225	EA	Drill 4" Diameter Core In Up To 2" Asphalt	57.01	
02 41 19 13-0226	EA	Drill 6" Diameter Core In Up To 2" Asphalt	71.63	
02 41 19 13-0227	EA	Drill 8" Diameter Core In Up To 2" Asphalt	89.21	
02 41 19 13-0228	EA	Drill 10" Diameter Core In Up To 2" Asphalt	111.11	
02 41 19 13-0229	EA	Drill 12" Diameter Core In Up To 2" Asphalt	138.85	
02 41 19 13-0230		>2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0231	EA	Drill 1" Diameter Core In >2" To 3" Asphalt	29.21	
02 41 19 13-0232	EA	Drill 1-1/2" Diameter Core In >2" To 3" Asphalt	37.97	
02 41 19 13-0233	EA	Drill 2" Diameter Core In >2" To 3" Asphalt	46.73	
02 41 19 13-0234	EA	Drill 3" Diameter Core In >2" To 3" Asphalt	58.43	
02 41 19 13-0235	EA	Drill 4" Diameter Core In >2" To 3" Asphalt	73.05	
02 41 19 13-0236	EA	Drill 6" Diameter Core In >2" To 3" Asphalt	92.05	
02 41 19 13-0237	EA	Drill 8" Diameter Core In >2" To 3" Asphalt	114.02	
02 41 19 13-0238	EA	Drill 10" Diameter Core In >2" To 3" Asphalt	143.20	
02 41 19 13-0239	EA	Drill 12" Diameter Core In >2" To 3" Asphalt	178.23	
02 41 19 13-0240		>3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0241	EA	Drill 1" Diameter Core In >3" To 4" Asphalt	37.98	
02 41 19 13-0242	EA	Drill 1-1/2" Diameter Core In >3" To 4" Asphalt	48.21	
02 41 19 13-0243	EA	Drill 2" Diameter Core In >3" To 4" Asphalt	59.90	
02 41 19 13-0244	EA	Drill 3" Diameter Core In >3" To 4" Asphalt	74.53	
02 41 19 13-0245	EA	Drill 4" Diameter Core In >3" To 4" Asphalt	93.56	
02 41 19 13-0246	EA	Drill 6" Diameter Core In >3" To 4" Asphalt	116.94	
02 41 19 13-0247	EA	Drill 8" Diameter Core In >3" To 4" Asphalt	146.26	
02 41 19 13-0248	EA	Drill 10" Diameter Core In >3" To 4" Asphalt	182.75	
02 41 19 13-0249	EA	Drill 12" Diameter Core In >3" To 4" Asphalt	228.01	
02 41 19 13-0250		>4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0251	EA	Drill 1" Diameter Core In >4" To 6" Asphalt	49.70	
02 41 19 13-0252	EA	Drill 1-1/2" Diameter Core In >4" To 6" Asphalt	61.42	
02 41 19 13-0253	EA	Drill 2" Diameter Core In >4" To 6" Asphalt	76.02	
02 41 19 13-0254	EA	Drill 3" Diameter Core In >4" To 6" Asphalt	96.55	
02 41 19 13-0255	EA	Drill 4" Diameter Core In >4" To 6" Asphalt	119.98	
02 41 19 13-0256	EA	Drill 6" Diameter Core In >4" To 6" Asphalt	149.26	
02 41 19 13-0257	EA	Drill 8" Diameter Core In >4" To 6" Asphalt	187.40	
02 41 19 13-0258	EA	Drill 10" Diameter Core In >4" To 6" Asphalt	234.12	
02 41 19 13-0259	EA	Drill 12" Diameter Core In >4" To 6" Asphalt	292.59	
02 41 19 13-0260		Manhole Core Drilling (02 41 19 13-0080)		
02 41 19 13-0261	EA	Drill 4" Diameter Core In 6" Brick Manhole	255.91	
02 41 19 13-0262	EA	Drill 5" Diameter Core In 6" Brick Manhole	292.45	
02 41 19 13-0263	EA	Drill 6" Diameter Core In 6" Brick Manhole	341.08	
02 41 19 13-0264	EA	Drill 8" Diameter Core In 6" Brick Manhole	511.49	
02 41 19 13-0265	EA	Drill 2" Diameter Core In 8" Concrete Manhole.....	342.88	



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0266 EA Drill 3" Diameter Core In 8" Concrete Manhole.....	365.10	
02 41 19 13-0267 EA Drill 4" Diameter Core In 8" Concrete Manhole.....	401.92	
02 41 19 13-0268 EA Drill 5" Diameter Core In 8" Concrete Manhole.....	431.24	
02 41 19 13-0269 EA Drill 6" Diameter Core In 8" Concrete Manhole.....	511.46	
02 41 19 13-0270 EA Drill 8" Diameter Core In 8" Concrete Manhole.....	730.51	
02 41 19 13-0271 EA Drill 2" Diameter Core In Fiberglass Manhole.....	34.02	
02 41 19 13-0272 EA Drill 3" Diameter Core In Fiberglass Manhole.....	39.26	
02 41 19 13-0273 EA Drill 4" Diameter Core In Fiberglass Manhole.....	42.54	
02 41 19 13-0274 EA Drill 5" Diameter Core In Fiberglass Manhole.....	46.41	
02 41 19 13-0275 EA Drill 6" Diameter Core In Fiberglass Manhole.....	51.05	
02 41 19 13-0276 EA Drill 8" Diameter Core In Fiberglass Manhole.....	56.73	
02 41 19 13-0277 Drilling In Concrete Per Inch Of Depth (02 41 19 13-0080)		
Note: Includes layout.		
02 41 19 13-0278 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.32	
02 41 19 13-0279 IN 5/16" Diameter Drilling In Concrete Per Inch Of Depth.....	2.45	
02 41 19 13-0280 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.59	
02 41 19 13-0281 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	2.78	
02 41 19 13-0282 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.96	
02 41 19 13-0283 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.24	
02 41 19 13-0284 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth.....	3.51	
02 41 19 13-0285 IN 1" Diameter Drilling In Concrete Per Inch Of Depth.....	3.68	
02 41 19 13-0286 IN 1-1/8" Diameter Drilling In Concrete Per Inch Of Depth.....	4.35	
02 41 19 13-0287 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	4.08	
02 41 19 13-0288 IN 1-3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	4.35	
02 41 19 13-0289 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	4.62	
02 41 19 13-0290 IN 1-3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	5.12	
02 41 19 13-0291 IN 2" Diameter Drilling In Concrete Per Inch Of Depth.....	5.96	
02 41 19 13-0292 Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0080)		
Note: Includes layout.		
02 41 19 13-0293 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.93	
02 41 19 13-0294 IN 5/16" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.04	
02 41 19 13-0295 IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.15	
02 41 19 13-0296 IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.32	
02 41 19 13-0297 IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.46	
02 41 19 13-0298 IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.71	
02 41 19 13-0299 IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.92	
02 41 19 13-0300 IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.08	
02 41 19 13-0301 IN 1-1/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.24	
02 41 19 13-0302 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.41	
02 41 19 13-0303 IN 1-3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.63	
02 41 19 13-0304 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.85	
02 41 19 13-0305 IN 1-3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	4.30	
02 41 19 13-0306 IN 2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	4.98	
02 41 19 13-0307 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0080)		
Note: Includes layout.		
02 41 19 13-0308 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.96	
02 41 19 13-0309 IN 5/16" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.02	
02 41 19 13-0310 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.08	
02 41 19 13-0311 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.15	
02 41 19 13-0312 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.22	
02 41 19 13-0313 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.34	
02 41 19 13-0314 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.46	
02 41 19 13-0315 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.54	
02 41 19 13-0316 IN 1-1/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.61	
02 41 19 13-0317 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.69	
02 41 19 13-0318 IN 1-3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.81	
02 41 19 13-0319 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.92	
02 41 19 13-0320 IN 1-3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	2.13	
02 41 19 13-0321 IN 2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	2.48	
02 41 19 13-0322 Limestone Core Drilling (02 41 19 13-0080)		
02 41 19 13-0323 10" To 14" Thick Limestone Core Drilling (02 41 19 13-0322)		
02 41 19 13-0324 EA Drill 1" Diameter Core In 10" To 14" Limestone.....	73.40	
02 41 19 13-0325 EA Drill 1-1/2" Diameter Core In 10" To 14" Limestone.....	88.16	
02 41 19 13-0326 EA Drill 2" Diameter Core In 10" To 14" Limestone.....	95.62	
02 41 19 13-0327 EA Drill 3" Diameter Core In 10" To 14" Limestone.....	110.58	
02 41 19 13-0328 EA Drill 4" Diameter Core In 10" To 14" Limestone.....	125.56	
02 41 19 13-0329 EA Drill 6" Diameter Core In 10" To 14" Limestone.....	176.95	
02 41 19 13-0330 EA Drill 8" Diameter Core In 10" To 14" Limestone.....	294.19	
02 41 19 13-0331 15" To 18" Thick Limestone Core Drilling (02 41 19 13-0322)		
02 41 19 13-0332 EA Drill 1" Diameter Core In 15" To 18" Limestone.....	80.82	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0333 EA Drill 1-1/2" Diameter Core In 15" To 18" Limestone.....	95.60	
02 41 19 13-0334 EA Drill 2" Diameter Core In 15" To 18" Limestone.....	103.13	
02 41 19 13-0335 EA Drill 3" Diameter Core In 15" To 18" Limestone.....	110.90	
02 41 19 13-0336 EA Drill 4" Diameter Core In 15" To 18" Limestone.....	147.82	
02 41 19 13-0337 EA Drill 6" Diameter Core In 15" To 18" Limestone.....	191.96	
02 41 19 13-0338 EA Drill 8" Diameter Core In 15" To 18" Limestone.....	309.52	
02 41 19 13-0339 19" To 24" Thick Limestone Core Drilling (02 41 19 13-0322)		
02 41 19 13-0340 EA Drill 1" Diameter Core In 19" To 24" Limestone.....	88.21	
02 41 19 13-0341 EA Drill 1-1/2" Diameter Core In 19" To 24" Limestone.....	103.04	
02 41 19 13-0342 EA Drill 2" Diameter Core In 19" To 24" Limestone.....	110.60	
02 41 19 13-0343 EA Drill 3" Diameter Core In 19" To 24" Limestone.....	125.69	
02 41 19 13-0344 EA Drill 4" Diameter Core In 19" To 24" Limestone.....	177.25	
02 41 19 13-0345 EA Drill 6" Diameter Core In 19" To 24" Limestone.....	221.52	
02 41 19 13-0346 EA Drill 8" Diameter Core In 19" To 24" Limestone.....	332.14	
02 41 19 13-0347 Minimum Charge For Core Drilling (02 41 19 13-0080)		
02 41 19 13-0348 EA Minimum Charge For Core Drill.....	984.75	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth" or "Drilling In Wood Or Plastic Per Inch Of Depth".		
02 41 19 13-0349 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0350 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0349)		
02 41 19 13-0351 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	55.19	
02 41 19 13-0352 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	58.53	
02 41 19 13-0353 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	61.88	
02 41 19 13-0354 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	65.23	
02 41 19 13-0355 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	66.90	
02 41 19 13-0356 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0349)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0357 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	67.26	
02 41 19 13-0358 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	71.34	
02 41 19 13-0359 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	75.42	
02 41 19 13-0360 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	79.49	
02 41 19 13-0361 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	81.53	
02 41 19 13-0362 Reinforced Concrete Wall Cutouts (02 41 19 13-0349)		
02 41 19 13-0363 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	68.99	
02 41 19 13-0364 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	73.16	
02 41 19 13-0365 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	77.35	
02 41 19 13-0366 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	81.53	
02 41 19 13-0367 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	83.62	
02 41 19 13-0368 Brick Wall Cutouts (02 41 19 13-0349)		
Note: Excludes toothing.		
02 41 19 13-0369 SF 4" Thick Brick Wall Cutouts, <24 SF.....	20.91	
02 41 19 13-0370 SF 6" Thick Brick Wall Cutouts, <24 SF.....	34.50	
02 41 19 13-0371 SF 8" Thick Brick Wall Cutouts, <24 SF.....	48.04	
02 41 19 13-0372 SF 10" Thick Brick Wall Cutouts, <24 SF.....	58.53	
02 41 19 13-0373 SF 12" Thick Brick Wall Cutouts, <24 SF.....	70.04	
02 41 19 13-0374 SF 16" Thick Brick Wall Cutouts, <24 SF.....	82.58	
02 41 19 13-0375 Concrete Block Wall Cutouts (02 41 19 13-0349)		
Note: Excludes toothing.		
02 41 19 13-0376 SF 4" Thick Concrete Block Wall Cutouts, <24 SF.....	34.58	
02 41 19 13-0377 SF 6" Thick Concrete Block Wall Cutouts, <24 SF.....	36.62	
02 41 19 13-0378 SF 8" Thick Concrete Block Wall Cutouts, <24 SF.....	38.68	
02 41 19 13-0379 SF 10" Thick Concrete Block Wall Cutouts, <24 SF.....	40.76	
02 41 19 13-0380 SF 12" Thick Concrete Block Wall Cutouts, <24 SF.....	41.81	
02 41 19 13-0381 SF 16" Thick Concrete Block Wall Cutouts, <24 SF.....	43.90	
02 41 19 13-0382 Limestone Cutouts (02 41 19 13-0349)		
02 41 19 13-0383 SF 2" Thick Limestone Cutouts, <24 SF.....	58.53	
02 41 19 13-0384 SF 4" Thick Limestone Cutouts, <24 SF.....	71.08	
02 41 19 13-0385 SF 6" Thick Limestone Cutouts, <24 SF.....	75.26	
02 41 19 13-0386 SF 8" Thick Limestone Cutouts, <24 SF.....	79.44	
02 41 19 13-0387 SF 10" Thick Limestone Cutouts, <24 SF.....	83.62	
02 41 19 13-0388 SF 12" Thick Limestone Cutouts, <24 SF.....	87.80	



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0389 Toothing Masonry Cutouts (02 41 19 13-0349) Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0390 VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	20.91	
02 41 19 13-0391 VLF Brick, Hard Mortar, Toothing Masonry Cutouts.....	28.22	
02 41 19 13-0392 VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts.....	12.54	
02 41 19 13-0393 VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts.....	16.72	
02 41 19 13-0394 Minimum Charge For Cutouts (02 41 19 13-0349) Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0395 EA Minimum Charge For Cutouts.....	418.11	
02 43 Structure Moving (02 40)		
02 43 13 Structure Relocation (02 43) Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.		
02 43 13 13 Building Relocation (02 43 13)		
02 43 13 13-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete (02 43 13 13) Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.		
02 43 13 13-0002 SF Up To 800 SF, Move Relocatable Metal Frame Building.....	40.56	
02 43 13 13-0003 SF >800 To 920 SF, Move Relocatable Metal Frame Building.....	38.33	
02 43 13 13-0004 SF >920 SF, Move Relocatable Metal Frame Building.....	35.88	
02 43 13 13-0005 SF Up To 800 SF, Move Relocatable Wood Frame Building.....	32.54	
02 43 13 13-0006 SF >800 To 920 SF, Move Relocatable Wood Frame Building.....	30.42	
02 43 13 13-0007 SF >920 SF, Move Relocatable Wood Frame Building.....	26.91	
02 43 13 13-0008 SF Up To 800 SF, Move Relocatable Wood/Metal Frame Building.....	39.42	
02 43 13 13-0009 SF >800 To 920 SF, Move Relocatable Wood/Metal Frame Building.....	35.88	
02 43 13 13-0010 SF >920 SF, Move Relocatable Wood/Metal Frame Building.....	30.42	
02 60 Contaminated Site Material Removal (02)		
02 61 Removal and Disposal of Contaminated Soils (02 60)		
02 61 13 Excavation and Handling of Contaminated Material (02 61) See CSI section 31 23 16 00-0000 for excavation.		
02 61 13 00-0001 Excavation Of Non-Petroleum Contaminated Soil (02 61 13) See CSI section 02 65 00 00-0001 for testing, 02 65 00 00-0006 for testing, 31 23 16 00-0000 for excavation of non-contaminated soil, 31 23 16 33-0019 for loading non-petroleum contaminated material onto trucks for removal.		
02 61 13 00-0002 Excavate Non-Petroleum Contaminated Soil (02 61 13 00-0001)		
02 61 13 00-0003 CY Excavate Non-Petroleum Contaminated Soil.....	10.28	
Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.		
02 61 13 00-0004 CY Load Excavated Non-Petroleum Contaminated Soil.....	9.10	
02 61 13 00-0005 CY Disposal Fees Of Non-Petroleum Contaminated Soil.....	48.00	
02 61 13 00-0006 Excavate Petroleum Contaminated Soil (02 61 13)		
02 61 13 00-0007 CY Excavate Petroleum Contaminated Soil.....	15.42	
Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.		
02 61 13 00-0008 CY Load Excavated Petroleum Contaminated Soil.....	9.10	
02 61 13 00-0009 CY Disposal Fees Of Petroleum Contaminated Soil.....	76.90	
02 61 13 00-0010 Accessories For Contaminated Soil Stockpile (02 61 13) See CSI section 31 25 14 23-0001 for sand bags.		
02 61 13 00-0011 SF 30 Mil Liner For Contaminated Soil Storage.....	1.63	
Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.		
02 61 13 00-0012 SF 10 Mil Liner For Contaminated Soil Storage.....	0.96	
Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.		
02 61 26 Removal and Disposal of Asbestos Contaminated Soils (02 61) Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less		

02 Existing Conditions**02 60 Contaminated Site Material Removal****02 61 Removal and Disposal of Contaminated Soils**

MINOR
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UNIT COST UNIT COST

than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 61 26 00-0001	Removal and Disposal of Asbestos Contaminated Soils (02 61 26)	
	Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.	
02 61 26 00-0002	EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	1,290.88
	For Work In Restricted Working Space, Add	387.26
02 61 26 00-0003	CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	85.57
	For Work In Restricted Working Space, Add	25.67
02 61 26 00-0004	CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	57.05
	For Work In Restricted Working Space, Add	17.12
02 61 26 00-0005	CF >250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	42.85
	For Work In Restricted Working Space, Add	12.86
02 61 26 00-0006	CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	34.23
	For Work In Restricted Working Space, Add	10.27
02 61 26 00-0007	CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	29.10
	For Work In Restricted Working Space, Add	8.73
02 61 26 00-0008	CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	26.18
	For Work In Restricted Working Space, Add	7.85

02 65 Underground Storage Tank Removal (02 60)

Note: Petroleum gasoline is classified as a hazardous material; fuel oil is considered a non-hazardous material. See CSI section 01 74 19 00-0043 for hauling, 31 20 00 00-0000 for non-contaminated soil excavation, 31 23 16 00-0000 for excavation, 31 41 00 00-0000 for shoring.

02 65 00 00-0001	Monitoring, Sampling, Testing And Analysis (02 65)	
02 65 00 00-0002	Field Samples For Testing Underground Storage Tank (02 65 00 00-0001)	
02 65 00 00-0003	EA Collection Of Sludge Sample For Underground Storage Tank	26.37
02 65 00 00-0004	EA Collection Of Pumpable Liquids Sample For Underground Storage Tank	26.37
02 65 00 00-0005	EA Collection Of Contaminated Soil Sample	26.37
02 65 00 00-0006	Lab Tests For Underground Storage Tank Removal (02 65 00 00-0001)	
	Note: Includes lab test fees, reports, shipping, handling, chain of custody documents and disposal of sample.	
02 65 00 00-0007	EA Benzene, Toluene, Ethylbenzene, Xylene 8020, Lab Test	214.08
	Note: The cost is for the in-lab test for Benzene, Toluene, Ethylbenzene, And Xylene using procedure 8020 as detailed in EPA SW-846.	
02 65 00 00-0008	EA Flashpoint, Lab Test	83.25
	Note: The cost is for the in-lab test for the flashpoint using procedure 40CFR 261.21 as detailed in EPA SW-846.	
02 65 00 00-0009	EA TOX 9020, Lab Test	200.28
	Note: The cost is for the in-lab test for total organic halides using procedure 9020 as detailed in EPA SW-846.	
02 65 00 00-0010	EA TPH 8015 Modified, Lab Test	214.08
	Note: The cost is for the in-lab test for total petroleum hydrocarbons by gas chromatography using procedure 8015 Mod. as detailed in EPA SW-846.	
02 65 00 00-0011	EA TRPH 418.1, Lab Test	166.51
	Note: The cost is for the in-lab test for total recoverable petroleum hydrocarbons using procedure 418.1 as detailed in EPA SW-846.	
02 65 00 00-0012	EA VOC, Lab Test	451.95
	Note: The cost is for the in-lab test for volatile organics using procedure 8240 as detailed in EPA SW-846.	
02 65 00 00-0013	EA Semi-Volatile Organic, Lab Test	832.54
	Note: The cost is for the in-lab test for semi-volatile organics using procedure 8270 as detailed in EPA SW-846.	
02 65 00 00-0014	EA Oil And Grease 413.1, Lab Test	100.14
	Note: The cost is for the in-lab test for oil and grease using procedure 413.1 as detailed in EPA SW-846.	
02 65 00 00-0015	EA TCLP (Extraction) - Metals, Lab Test	178.40
	Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	
02 65 00 00-0016	EA TCLP (Extraction) - Semi-Volatile Organic, Lab Test	237.87
	Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	
02 65 00 00-0017	EA Metals 6010 RCRA, Lab Test	266.41
	Note: The cost is for the in-lab test for metals using procedure 6010 RCRA as detailed in EPA SW-846.	
02 65 00 00-0018	EA Metals (Arsenic) 7060, Lab Test	35.68
	Note: The cost is for the in-lab test for the metal arsenic using procedure 7060 as detailed in EPA SW-846.	
02 65 00 00-0019	EA Metals (Selenium) 7740, Lab Test	35.68
	Note: The cost is for the in-lab test for the metal selenium (SE) using procedure 7740 as detailed in EPA SW-846.	
02 65 00 00-0020	EA Metals (Lead) 7421, Lab Test	35.68
	Note: The cost is for the in-lab test for the metal lead using procedure 7421 as detailed in EPA SW-846.	
02 65 00 00-0021	EA Metals (Mercury) 7470, Lab Test	66.60
	Note: The cost is for the in-lab test for the metal mercury using procedure 7470 as detailed in EPA SW-846.	
02 65 00 00-0022	EA PNA/PAH 8100, Lab Test	380.59
	Note: The cost is for the in-lab test for polynuclear aromatic hydrocarbons using procedure 8100 as detailed in EPA SW-846.	
02 65 00 00-0023	EA Fuel Id ASTM D3328-78, Lab Test	137.69
	Note: The cost is for the in-lab test to determine the constituents of fuel using the procedure as detailed in ASTM D3328-78.	



Existing Conditions			02
Contaminated Site Material Removal			02 60
Underground Storage Tank Removal			02 65

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0024	EA	pH, Lab Test.....	28.54	
02 65 00 00-0025	EA	Lab Test - Polychlorinated Biphenyl (PCB) In Wastewater.....	356.80	
02 65 00 00-0026	EA	Methyl Tertiary Butyl Ether (MTBE), Lab Test.....	214.08	
02 65 00 00-0027		Tests, Surveys And Maintenance For Underground Storage Tank (02 65 00 00-0001)		
02 65 00 00-0028	EA	Site Survey For AST/UST Location By Certified Tank Installer..... Note: Includes testing Pump output both tank and dispenser, Calibrate pump dispenser if needed, Check all sumps both tank and dispenser, check all fitting connections for leaks and check wiring connection for possible malfunction or safety hazard, check seals on caps for fill tube, check overfill performance for safety shutdown, check all hoses and pump handle, check break-away couplings, complete written report on all data found.	1,170.14	
02 65 00 00-0029	EA	Check Cathodic Protection - Impressed Current Systems And Sacrificial Anode Systems..... Note: By Certified Technician. Write report of findings for action if needed	205.87	
02 65 00 00-0030	EA	Check And Report On Monitor Probes..... Note: By Certified Technician	47.49	
02 65 00 00-0031	EA	Tank Monitoring System: Check System Per Manufacturer's Specification By Certified Technician With Written Report..... Note: Including pass / fail; paper feed operational paper installed etc.; and status of inspection repairs needed etc.	332.17	
02 65 00 00-0032	EA	Removal And Replacement Of Anode On Impressed System.....	173.60	
02 65 00 00-0033	EA	Removal And Replacement Of Power Converter On Impressed System On Underground Storage Tank.....	249.82	
02 65 00 00-0034	EA	Removal And Replacement Of Monitor Probes On Underground Storage Tank.....	359.62	
02 65 00 00-0035	EA	Ultrasonic Test On Underground Storage Tank.....	223.53	
02 65 00 00-0036		Tests And Sampling Labor Hours (02 65 00 00-0001)		
02 65 00 00-0037	HR	Certified Tank Installer For Underground Storage Tank.....	132.42	
02 65 00 00-0038	HR	Certified Geologist/Environmentalist.....	126.40	
02 65 00 00-0039	HR	Hourly Office Work For Reports Required For EPA On Underground Storage Tank..... Note: Includes title searches, well survey data, site drawings, submitting preliminary work, etc. Hours not to be used in association with other tasks performed.	135.94	
02 65 00 00-0040		Remove Tank Contents (02 65)		
02 65 00 00-0041		Transfer Liquid (02 65 00 00-0040) Note: For use to transfer liquids from one tank to another.		
02 65 00 00-0042	GAL	Transfer Reusable Liquid To Different Tank..... Note: Per gallon of material transferred.	0.72	
02 65 00 00-0043		Pump Contaminated Liquids And Rinse Material (02 65 00 00-0040)		
02 65 00 00-0044	GAL	Removal and Disposal Of Hazardous Liquids From Tank.....	2.00	
02 65 00 00-0045	GAL	Removal and Disposal Of Non-Hazardous Liquid From Tank.....	0.88	
02 65 00 00-0046		Sludge (02 65 00 00-0040) Note: Includes scraping and solidifying agent.		
02 65 00 00-0047	GAL	Removal and Disposal Of Hazardous Solids Or Sludge From Tank.....	7.21	
02 65 00 00-0048	GAL	Removal and Disposal Of Non-Hazardous Solids Or Sludge From Tank.....	1.61	
02 65 00 00-0049		Purge Vapors, Open And Clean Tank (02 65)		
02 65 00 00-0050		Purge Vapors (02 65 00 00-0049)		
02 65 00 00-0051	LB	Purge Tank Using Dry Ice..... Note: Approximately 1.5 To 3.0 Lb. of dry ice per 100 Gallons of tank volume.	4.83	
02 65 00 00-0052		High Pressure Water Wash And Rinse Of Tank Interior (02 65 00 00-0049) Note: Includes removal and disposal of rinse water.		
02 65 00 00-0053	EA	Up To 275 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	381.52	
02 65 00 00-0054	EA	>275 To 550 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	499.84	
02 65 00 00-0055	EA	>550 To 1,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	647.53	
02 65 00 00-0056	EA	>1,000 To 2,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	873.99	
02 65 00 00-0057	EA	>2,000 To 5,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,690.18	
02 65 00 00-0058	EA	>5,000 To 6,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,032.44	
02 65 00 00-0059	EA	>6,000 To 8,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,327.42	
02 65 00 00-0060	EA	>8,000 To 10,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,811.90	
02 65 00 00-0061	EA	>10,000 To 15,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	3,617.79	
02 65 00 00-0062	EA	>15,000 To 20,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	4,349.76	
02 65 00 00-0063	EA	>20,000 To 30,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	5,508.43	
02 65 00 00-0064	EA	>30,000 To 40,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	6,791.10	
02 65 00 00-0065	EA	>40,000 To 50,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	8,321.63	
02 65 00 00-0066		Scrape Clean Tank Exterior (02 65 00 00-0049)		
02 65 00 00-0067	EA	Up To 275 Gallon Tank, Scrape Clean Tank Exterior.....	272.81	
02 65 00 00-0068	EA	>275 To 550 Gallon Tank, Scrape Clean Tank Exterior.....	363.28	
02 65 00 00-0069	EA	>550 To 1,000 Gallon Tank, Scrape Clean Tank Exterior.....	476.03	
02 65 00 00-0070	EA	>1,000 To 2,000 Gallon Tank, Scrape Clean Tank Exterior.....	659.20	
02 65 00 00-0071	EA	>2,000 To 5,000 Gallon Tank, Scrape Clean Tank Exterior.....	1,459.82	

02	Existing Conditions
02 60	Contaminated Site Material Removal
02 65	Underground Storage Tank Removal



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0072 EA >5,000 To 6,000 Gallon Tank, Scrape Clean Tank Exterior	1,848.45	
02 65 00 00-0073 EA >6,000 To 8,000 Gallon Tank, Scrape Clean Tank Exterior	2,163.01	
02 65 00 00-0074 EA >8,000 To 10,000 Gallon Tank, Scrape Clean Tank Exterior	2,719.21	
02 65 00 00-0075 EA >10,000 To 15,000 Gallon Tank, Scrape Clean Tank Exterior	3,534.31	
02 65 00 00-0076 EA >15,000 To 20,000 Gallon Tank, Scrape Clean Tank Exterior	4,436.26	
02 65 00 00-0077 EA >20,000 To 30,000 Gallon Tank, Scrape Clean Tank Exterior	5,776.37	
02 65 00 00-0078 EA >30,000 To 40,000 Gallon Tank, Scrape Clean Tank Exterior	6,931.65	
02 65 00 00-0079 EA >40,000 To 50,000 Gallon Tank, Scrape Clean Tank Exterior	8,664.57	
 02 65 00 00-0080 Tank And Piping Removal (02 65) Note: Excludes excavation. See CSI section 02 61 13 00-0001 for excavation.		
 02 65 00 00-0081 Removal And Disposal Of Piping (02 65 00 00-0080) Note: Includes removal, inspection, loading, transporting pipe to disposal facility or transfer station within 15 miles and disposal fees.		
02 65 00 00-0082 LF Up To 4", Removal And Disposal Of Piping	21.80	
02 65 00 00-0083 LF >4" To 8", Removal And Disposal Of Piping	29.08	
 02 65 00 00-0084 Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement (02 65 00 00-0080) Note: Excludes excavation or backfill.		
02 65 00 00-0085 EA Up To 275 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	757.15	
02 65 00 00-0086 EA >275 To 550 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	919.39	
02 65 00 00-0087 EA >550 To 1,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,081.65	
02 65 00 00-0088 EA >1,000 To 2,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,352.05	
02 65 00 00-0089 EA >2,000 To 5,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,892.87	
02 65 00 00-0090 EA >5,000 To 6,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,379.60	
02 65 00 00-0091 EA >6,000 To 8,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,704.10	
02 65 00 00-0092 EA >8,000 To 10,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	3,244.91	
02 65 00 00-0093 EA >10,000 To 15,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	4,326.55	
02 65 00 00-0094 EA >15,000 To 20,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	5,186.57	
02 65 00 00-0095 EA >20,000 To 30,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	6,077.60	
02 65 00 00-0096 EA >30,000 To 40,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	7,110.27	
02 65 00 00-0097 EA >40,000 To 50,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	8,887.84	
 02 65 00 00-0098 Cut Tank Into Sections That Can Easily Be Transported And Disposed Of When Necessary (02 65 00 00-0080) Note: Includes 1 lengthwise at every 4' on-center height wise.		
02 65 00 00-0099 EA >1,000 To 2,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	916.91	
02 65 00 00-0100 EA >2,000 To 5,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,709.93	
02 65 00 00-0101 EA >5,000 To 6,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,056.86	
02 65 00 00-0102 EA >6,000 To 8,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,292.29	
02 65 00 00-0103 EA >8,000 To 10,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,750.74	
02 65 00 00-0104 EA >10,000 To 15,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	3,419.85	
02 65 00 00-0105 EA >15,000 To 20,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	4,113.73	
02 65 00 00-0106 EA >20,000 To 30,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	5,142.16	
02 65 00 00-0107 EA >30,000 To 40,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	6,427.71	
02 65 00 00-0108 EA >40,000 To 50,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	8,034.63	
 02 65 00 00-0109 Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station (02 65 00 00-0080) Note: Includes disposal fee.		
02 65 00 00-0110 EA Up To 275 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	327.82	
For Each Additional Mile >15 Miles, Add	5.10	
02 65 00 00-0111 EA >275 To 550 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	443.42	
For Each Additional Mile >15 Miles, Add	6.44	
02 65 00 00-0112 EA >550 To 1,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	696.10	
For Each Additional Mile >15 Miles, Add	9.66	
02 65 00 00-0113 EA >1,000 To 2,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,070.19	
For Each Additional Mile >15 Miles, Add	11.27	
02 65 00 00-0114 EA >2,000 To 5,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,888.53	
For Each Additional Mile >15 Miles, Add	19.86	
02 65 00 00-0115 EA >5,000 To 6,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,952.92	
For Each Additional Mile >15 Miles, Add	21.47	
02 65 00 00-0116 EA >6,000 To 8,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	2,060.27	
For Each Additional Mile >15 Miles, Add	24.15	
02 65 00 00-0117 EA >8,000 To 10,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	2,981.02	
For Each Additional Mile >15 Miles, Add	32.20	
02 65 00 00-0118 EA >10,000 To 15,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	4,099.91	
For Each Additional Mile >15 Miles, Add	48.30	
02 65 00 00-0119 EA >15,000 To 20,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	4,789.43	
For Each Additional Mile >15 Miles, Add	53.67	
02 65 00 00-0120 EA >20,000 To 30,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	5,920.73	
For Each Additional Mile >15 Miles, Add	64.40	
02 65 00 00-0121 EA >30,000 To 40,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	8,252.78	
For Each Additional Mile >15 Miles, Add	77.29	
02 65 00 00-0122 EA >40,000 To 50,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	9,955.22	
For Each Additional Mile >15 Miles, Add	88.88	



Existing Conditions		02
Contaminated Site Material Removal		02 60
Underground Storage Tank Removal		02 65

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0123 Other Storage Tank Removals (02 65 00 00-0080) Note: Based on tank gallon size		
02 65 00 00-0124 GAL Removal Of Cement Lining.....	0.64	
02 65 00 00-0125 GAL Sandblast Tank In Prep For Lining Or Welding; Remove Sand, Vacuum Walls And Seams.....	0.23	
02 65 00 00-0126 GAL Install Epoxy For Interior Corrosion Protection	1.42	
02 65 00 00-0127 Tank Closure Report (02 65 00 00-0080) Note: Excludes soils tests. See CSI section 02 65 00 00-0006 for soil tests.		
02 65 00 00-0128 EA Prepare Tank Closure Report.....	3,417.92	
02 65 00 00-0129 Temporary Tanks (02 65)		
02 65 00 00-0130 Temporary Holding Tanks (02 65 00 00-0129)		
02 65 00 00-0131 Above Ground Temporary Holding Tanks, Monthly Rental (02 65 00 00-0130)		
02 65 00 00-0132 MO 550 Gallon, Stainless Steel, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	989.85	
02 65 00 00-0133 MO 630 Gallon, Polyethylene, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	989.85	
02 65 00 00-0134 MO 630 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,979.69	
02 65 00 00-0135 MO 4,000 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,484.77	
02 65 00 00-0136 MO 4,000 Gallon, Polyethylene, Trailer Mounted, Above Ground Temporary Holding Tanks, Monthly Rental	3,464.47	
02 65 00 00-0137 MO 6,000 Gallon, Polyethylene, Total Drain, Above Ground Temporary Holding Tanks, Monthly Rental.....	2,474.62	
02 65 00 00-0138 MO 21,000 Gallon (500 BBL), Steel, Open, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	5,532.07	
02 65 00 00-0139 MO 21,000 Gallon (500 BBL), Steel, Closed, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	6,629.70	
02 65 00 00-0140 MO 21,000 Gallon (500 BBL), Steel, Vapor Proof, Above Ground Temporary Holding Tanks, Monthly Rental	11,195.86	
02 65 00 00-0141 Secondary Containment Berm (02 65 00 00-0129)		
02 65 00 00-0142 MO Secondary Containment Berm Monthly Rental	2,144.67	
02 80 Facility Remediation (02)		
02 81 Transportation and Disposal of Hazardous Materials (02 80)		
02 81 00 00-0001 Hazardous Material Disposal (02 81)		
02 81 00 00-0002 EA RCRA (Direct Landfill) Drums.....	524.80	
Note: Excludes stabilization. See CSI section 02 81 00 00-0003 for Stabilization (>5 ppm).		
02 81 00 00-0003 EA Stabilization (>5 ppm)	699.31	
02 81 00 00-0004 TON Bulk Hazardous Material Landfill Cost	442.72	
02 81 00 00-0005 Equipment Oil Drain And Disposal (02 81)		
02 81 00 00-0006 TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site.....	695.06	
Note: Excludes Disposal Cost.		
02 81 00 00-0007 DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum.....	109.22	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0008 DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum.....	496.48	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0009 DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum	893.66	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0010 CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site	119.20	
Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.		
02 82 Asbestos Remediation (02 80)		
See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0043 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.		
02 82 13 Asbestos Abatement (02 82)		
02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13) Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.		
02 82 13 00-0002 HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	103.80	
02 82 13 00-0003 EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	64.66	
02 82 13 00-0004 EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	75.81	
02 82 13 00-0005 EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	120.41	
02 82 13 00-0006 EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	207.37	
02 82 13 00-0007 EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	251.97	
02 82 13 00-0008 EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	51.29	
02 82 13 00-0009 EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing	62.43	
02 82 13 00-0010 EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing	84.73	
02 82 13 00-0011 EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	64.66	
02 82 13 00-0012 EA Next Day Turnaround, (Air Point Counting) PLM Test	75.81	
02 82 13 00-0013 EA Same Day Turnaround, (Air Point Counting) PLM Test	120.41	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 13 00-0014 EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	207.37	
02 82 13 00-0015 EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing	238.59	
02 82 13 00-0016 EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing	332.24	
02 82 16 Engineering Control of Asbestos Containing Materials (02 82)		
02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)		
02 82 16 00-0002 SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.77	
02 82 16 00-0003 SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	2.41	
02 82 16 00-0004 SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	2.62	
02 82 16 00-0005 SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	2.84	
02 82 16 00-0006 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	8.80	
02 82 16 00-0007 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	9.98	
02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)		
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, cleanup, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. The SET task includes portion for set-up and mobilization. For those tasks the contractor will be paid the first task of SET with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		
02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)		
Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.		
02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)		
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0004 SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,308.66	
For Work In Restricted Working Space, Add	387.26	
02 82 33 00-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	44.90	
For Work In Restricted Working Space, Add	13.20	
02 82 33 00-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	33.89	
For Work In Restricted Working Space, Add	9.90	
02 82 33 00-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	25.64	
For Work In Restricted Working Space, Add	7.43	
02 82 33 00-0008 LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	19.45	
For Work In Restricted Working Space, Add	5.57	
02 82 33 00-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	17.04	
For Work In Restricted Working Space, Add	4.85	
02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0003)		
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0011 SET Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,326.44	
For Work In Restricted Working Space, Add	387.26	
02 82 33 00-0012 LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	52.39	
For Work In Restricted Working Space, Add	15.18	
02 82 33 00-0013 LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	39.73	
For Work In Restricted Working Space, Add	11.39	
02 82 33 00-0014 LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	30.24	
For Work In Restricted Working Space, Add	8.54	
02 82 33 00-0015 LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	23.12	
For Work In Restricted Working Space, Add	6.40	
02 82 33 00-0016 LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	20.35	
For Work In Restricted Working Space, Add	5.57	
02 82 33 00-0017 >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0010)		
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0018 SET Up To 20 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,344.21	
For Work In Restricted Working Space, Add	387.26	
02 82 33 00-0019 LF >20 To 250 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	69.85	
For Work In Restricted Working Space, Add	20.24	
02 82 33 00-0020 LF >250 To 500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	52.97	
For Work In Restricted Working Space, Add	15.18	
02 82 33 00-0021 LF >500 To 2,500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	40.32	
For Work In Restricted Working Space, Add	11.39	
02 82 33 00-0022 LF >2,500 To 10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	30.82	
For Work In Restricted Working Space, Add	8.54	
02 82 33 00-0023 LF >10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	27.12	
For Work In Restricted Working Space, Add	7.43	



Existing Conditions			02
Facility Remediation			02 80
Asbestos Remediation			02 82

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0024 >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0002) See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0025 SET Up To 20 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,361.99	
For Work In Restricted Working Space, Add	387.26	
02 82 33 00-0026 LF >20 To 250 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	96.05	
For Work In Restricted Working Space, Add	27.84	
02 82 33 00-0027 LF >250 To 500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	72.84	
For Work In Restricted Working Space, Add	20.87	
02 82 33 00-0028 LF >500 To 2,500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	55.45	
For Work In Restricted Working Space, Add	15.66	
02 82 33 00-0029 LF >2,500 To 10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	42.39	
For Work In Restricted Working Space, Add	11.74	
02 82 33 00-0030 LF >10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal	37.29	
For Work In Restricted Working Space, Add	10.21	
02 82 33 00-0031 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0032 SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal	835.70	
For Work In Restricted Working Space, Add	249.11	
02 82 33 00-0033 LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation	140.17	
For Work In Restricted Working Space, Add	41.52	
02 82 33 00-0034 LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation	55.50	
For Work In Restricted Working Space, Add	16.12	
02 82 33 00-0035 LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation	42.06	
For Work In Restricted Working Space, Add	12.08	
02 82 33 00-0036 LF >500 LF Additional Glove Bag Work for Pipe Insulation	31.99	
For Work In Restricted Working Space, Add	9.06	
02 82 33 00-0037 Thermal Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0002)		
02 82 33 00-0038 Calcium Block Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0037)		
02 82 33 00-0039 SET Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	1,299.77	
02 82 33 00-0040 SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	53.48	
02 82 33 00-0041 SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	44.14	
02 82 33 00-0042 SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	35.46	
02 82 33 00-0043 SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	28.97	
02 82 33 00-0044 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0037)		
02 82 33 00-0045 SET Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	1,295.32	
02 82 33 00-0046 SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	47.03	
02 82 33 00-0047 SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	37.68	
02 82 33 00-0048 SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	29.01	
02 82 33 00-0049 SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal	22.51	
02 82 33 00-0050 Fibrous Glass Board Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0037)		
02 82 33 00-0051 SET Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	1,293.84	
02 82 33 00-0052 SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	41.72	
02 82 33 00-0053 SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	32.38	
02 82 33 00-0054 SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	23.70	
02 82 33 00-0055 SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	17.20	
02 82 33 00-0056 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal ^(02 82 33 00-0037) Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0057 SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	1,301.99	
02 82 33 00-0058 SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	44.45	
02 82 33 00-0059 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	35.10	
02 82 33 00-0060 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	26.43	
02 82 33 00-0061 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal	19.93	
02 82 33 00-0062 Surfacing Material, Asbestos Abatement And Disposal ^(02 82 33 00-0062)		
02 82 33 00-0063 Fireproofing For Small Areas, Asbestos Abatement And Disposal ^(02 82 33 00-0062) Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0065 for areas > 1 SF see CSI section.		
02 82 33 00-0064 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal	215.59	
Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
02 82 33 00-0065 Fireproofing, Asbestos Abatement And Disposal ^(02 82 33 00-0062) Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0066 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal	1,301.99	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0067	SF	>25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....	53.24	
02 82 33 00-0068	SF	>500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal.....	40.03	
02 82 33 00-0069	SF	>2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	30.13	
02 82 33 00-0070	SF	>10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	22.70	
02 82 33 00-0071		Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0062) Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0072	SET	Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	1,298.29	
02 82 33 00-0073	SF	>25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	22.35	
02 82 33 00-0074	SF	>500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	16.97	
02 82 33 00-0075	SF	>2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	12.67	
02 82 33 00-0076	SF	>10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	9.44	
02 82 33 00-0077		Plywood, Asbestos Abatement And Disposal (02 82 33 00-0062)		
02 82 33 00-0078	SET	Up To 40 SF, Plywood, Asbestos Abatement And Disposal.....	1,302.73	
02 82 33 00-0079	SF	>50 To 500 SF, Plywood, Asbestos Abatement And Disposal.....	18.58	
02 82 33 00-0080	SF	>500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal.....	9.10	
02 82 33 00-0081	SF	>2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal.....	6.24	
02 82 33 00-0082	SF	>10,000 SF, Plywood, Asbestos Abatement And Disposal.....	5.35	
02 82 33 00-0083		Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0084		Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0083)		
02 82 33 00-0085	SET	Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	1,305.69	
02 82 33 00-0086	SF	>100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	7.79	
02 82 33 00-0087	SF	>500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	4.07	
02 82 33 00-0088	SF	>2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.28	
02 82 33 00-0089	SF	>10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.87	
02 82 33 00-0090		Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0083)		
02 82 33 00-0091	SET	Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	1,093.52	
02 82 33 00-0092	LF	>10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	45.79	
02 82 33 00-0093	LF	>100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	34.78	
02 82 33 00-0094	LF	>250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	26.53	
02 82 33 00-0095	LF	>500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	20.34	
02 82 33 00-0096	LF	>2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	15.71	
02 82 33 00-0097	LF	>10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	15.37	
02 82 33 00-0098		Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0083)		
02 82 33 00-0099	SET	Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	1,315.99	
02 82 33 00-0100	SF	>125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	7.03	
02 82 33 00-0101	SF	>1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	5.65	
02 82 33 00-0102	SF	>5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	4.55	
02 82 33 00-0103	SF	>10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	3.45	
02 82 33 00-0104	SF	>20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	2.63	
02 82 33 00-0105		Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0106		Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0105)		
02 82 33 00-0107	SET	Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	878.37 258.18	
02 82 33 00-0108	CF	>10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	87.35 25.67	
02 82 33 00-0109	CF	>100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	58.83 17.12	
02 82 33 00-0110	CF	>250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	44.63 12.86	
02 82 33 00-0111	CF	>500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	36.01 10.27	
02 82 33 00-0112	CF	>2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	30.88 8.73	
02 82 33 00-0113	CF	>10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	27.96 7.85	
02 82 33 00-0114		Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33)		



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 82 33 00-0115	30" To 36" Fire Door, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0116	SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	438.29
02 82 33 00-0117	EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	162.90
02 82 33 00-0118	EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	147.41

02 82 33 00-0119	Grout, Asbestos Abatement And Disposal (02 82 33 00-0114)	
Note: e.g. flue grout.		
02 82 33 00-0120	SET Up To 10 LF, Grout, Asbestos Abatement And Disposal.....	430.54
02 82 33 00-0121	LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal.....	16.96
02 82 33 00-0122	LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal.....	11.68
02 82 33 00-0123	LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal.....	10.01
02 82 33 00-0124	LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal.....	8.60
02 82 33 00-0125	LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal.....	7.41
02 82 33 00-0126	LF >2,500 LF, Grout, Asbestos Abatement And Disposal.....	6.36

02 82 33 00-0127	Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0114)	
Note: e.g. rope, web cloth, flat.		
02 82 33 00-0128	SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....	430.66
02 82 33 00-0129	LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal.....	22.86
02 82 33 00-0130	LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal.....	17.15
02 82 33 00-0131	LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal.....	14.62
02 82 33 00-0132	LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal.....	13.16
02 82 33 00-0133	LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	11.83
02 82 33 00-0134	LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	11.26

02 82 33 00-0135	Caulking, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0136	Non-Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0135)	
02 82 33 00-0137	SET Up To 10 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	430.54
02 82 33 00-0138	LF >10 To 50 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	12.71
02 82 33 00-0139	LF >50 To 100 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	8.97
02 82 33 00-0140	LF >100 To 250 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	6.68
02 82 33 00-0141	LF >250 To 1,000 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	5.02
02 82 33 00-0142	LF >1,000 To 2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	3.98
02 82 33 00-0143	LF >2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	3.45

02 82 33 00-0144	Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0145	SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal.....	430.54
02 82 33 00-0146	LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal.....	16.96
02 82 33 00-0147	LF >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal.....	11.68
02 82 33 00-0148	LF >100 To 250 LF, Window Putty, Asbestos Abatement And Disposal.....	10.01
02 82 33 00-0149	LF >250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	8.60
02 82 33 00-0150	LF >1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	7.41

02 82 33 00-0151	Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0152	SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	894.72
02 82 33 00-0153	EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	85.54
02 82 33 00-0154	EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	59.88
02 82 33 00-0155	EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	47.09
02 82 33 00-0156	EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	39.34
02 82 33 00-0157	EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	34.71
02 82 33 00-0158	EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	32.09

02 82 33 00-0159	Bearing Pads, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0160	SET Up To 10 EA, Bearing Pads, Asbestos Abatement And Disposal.....	431.03
02 82 33 00-0161	EA >10 To 20 EA, Bearing Pads, Asbestos Abatement And Disposal.....	28.58
02 82 33 00-0162	EA >20 To 35 EA, Bearing Pads, Asbestos Abatement And Disposal.....	18.35
02 82 33 00-0163	EA >35 To 50 EA, Bearing Pads, Asbestos Abatement And Disposal.....	16.47
02 82 33 00-0164	EA >50 EA, Bearing Pads, Asbestos Abatement And Disposal.....	14.81

02 83 Lead Remediation (02 80)

See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0043 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.

02 83 19 Lead-Based Paint Remediation (02 83)

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**02 83 19 13****Lead-Based Paint Abatement** (02 83 19)

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, cleanup, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0043 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting.

02 83 19 13-0001**Minimum Charge For Lead-Based Paint Remediation** (02 83 19 13)

02 83 19 13-0002	EA	Minimum Show Up Charge For Lead-Based Paint Remediation	1,314.25
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.			

02 83 19 13-0003**Lead Sampling And Testing** (02 83 19 13)

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.

02 83 19 13-0004	HR	Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	97.34
02 83 19 13-0005	EA	X-Ray Fluorescence (XRF) Lead Testing	76.86
Note: Including Technician, 3 Readings Per Surface And Lab Fee			
02 83 19 13-0006	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	73.58
02 83 19 13-0007	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	111.49
02 83 19 13-0008	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	156.09
02 83 19 13-0009	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	28.99
02 83 19 13-0010	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	44.60
02 83 19 13-0011	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	55.74
02 83 19 13-0012	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	73.58
02 83 19 13-0013	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	111.49
02 83 19 13-0014	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee	12.26
02 83 19 13-0015	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee	16.72
02 83 19 13-0016	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee	24.53
02 83 19 13-0017	EA	5 Day Turnaround Lead Air Samples And Lab Fee	12.26
02 83 19 13-0018	EA	24 Hour Turnaround Lead Air Samples And Lab Fee	16.72
02 83 19 13-0019	EA	8 Hour Turnaround Lead Air Samples And Lab Fee	24.53
02 83 19 13-0020	EA	5 Day Turnaround Lead Water Test and Lab Fee	44.60
02 83 19 13-0021	EA	24 Hour Turnaround Lead Water Test and Lab Fee	66.89
02 83 19 13-0022	EA	8 Hour Turnaround Lead Water Test and Lab Fee	89.19
02 83 19 13-0023	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee	46.12
02 83 19 13-0024	EA	5 Day Turnaround Lead Soil Test and Lab Fee	92.24

02 83 19 13-0025**Chemical Stripping Of Lead Contaminated Material** (02 83 19 13)

Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.

02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material	37.30
For 0.025" (25 mil) Application, Add			2.12
For 0.03" (30 mil) Application, Add			3.33
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	55.33
For 0.025" (25 mil) Application, Add			3.02
For 0.03" (30 mil) Application, Add			4.68
02 83 19 13-0028	SF	Wood Floors, Chemical Stripping Of Lead Contaminated Material	8.84
For 0.025" (25 mil) Application, Add			0.64
For 0.03" (30 mil) Application, Add			1.09
02 83 19 13-0029	SF	HVAC Grilles, Chemical Stripping Of Lead Contaminated Material	33.33
For 0.025" (25 mil) Application, Add			1.87
For 0.03" (30 mil) Application, Add			2.92
02 83 19 13-0030	SF	HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material	39.74
For 0.025" (25 mil) Application, Add			2.19
For 0.03" (30 mil) Application, Add			3.41
02 83 19 13-0031	EA	Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	25.71
For 0.025" (25 mil) Application, Add			1.59
For 0.03" (30 mil) Application, Add			2.57
For 0.125" (125 mil) Application, Add			15.43
02 83 19 13-0032	LF	>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	11.52
For 0.025" (25 mil) Application, Add			0.73
For 0.03" (30 mil) Application, Add			1.18
For 0.125" (125 mil) Application, Add			7.38
02 83 19 13-0033	LF	>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	20.62
For 0.025" (25 mil) Application, Add			1.28
For 0.03" (30 mil) Application, Add			2.08
For 0.125" (125 mil) Application, Add			12.66
02 83 19 13-0034	LF	>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	28.26
For 0.025" (25 mil) Application, Add			1.71
For 0.03" (30 mil) Application, Add			2.76
For 0.125" (125 mil) Application, Add			16.07
02 83 19 13-0035	LF	>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	50.68
For 0.025" (25 mil) Application, Add			2.98
For 0.03" (30 mil) Application, Add			4.76
For 0.125" (125 mil) Application, Add			26.17



Existing Conditions			02
Facility Remediation			02 80
Lead Remediation			02 83

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0036 SF >16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	15.14	
For 0.025" (25 mil) Application, Add	0.87	
For 0.03" (30 mil) Application, Add	1.37	
For 0.125" (125 mil) Application, Add	7.03	
02 83 19 13-0037 EA Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material	301.10	
For 0.025" (25 mil) Application, Add	16.51	
For 0.03" (30 mil) Application, Add	25.67	
02 83 19 13-0038 SF Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material	11.60	
For 0.025" (25 mil) Application, Add	0.78	
For 0.03" (30 mil) Application, Add	1.30	
For 0.125" (125 mil) Application, Add	8.90	
02 83 19 13-0039 SF Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	13.16	
For 0.025" (25 mil) Application, Add	0.86	
For 0.03" (30 mil) Application, Add	1.41	
For 0.125" (125 mil) Application, Add	9.29	
02 83 19 13-0040 SF Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material	13.13	
For 0.025" (25 mil) Application, Add	0.86	
For 0.03" (30 mil) Application, Add	1.41	
For 0.125" (125 mil) Application, Add	9.28	
02 83 19 13-0041 SF Metal Stairs, Chemical Stripping Of Lead Contaminated Material	60.41	
For 0.025" (25 mil) Application, Add	3.42	
For 0.03" (30 mil) Application, Add	5.38	
For 0.125" (125 mil) Application, Add	27.10	
02 83 19 13-0042 LF Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material	10.49	
For 0.025" (25 mil) Application, Add	0.67	
For 0.03" (30 mil) Application, Add	1.11	
For 0.125" (125 mil) Application, Add	7.12	
02 83 19 13-0043 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material	30.71	
Note: The unit of measure "SF" is measured for "Length x Height". Work includes both sides of railing.		
For 0.025" (25 mil) Application, Add	1.84	
For 0.03" (30 mil) Application, Add	2.94	
For 0.125" (125 mil) Application, Add	16.68	
02 83 19 13-0044 SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material	33.58	
Note: The unit of measure "SF" is measured for "Length x Height". Work includes both sides of railing.		
For 0.025" (25 mil) Application, Add	1.93	
For 0.03" (30 mil) Application, Add	3.05	
For 0.125" (125 mil) Application, Add	15.90	
02 83 19 13-0045 Demolish Lead Contaminated Material (02 83 19 13)		
Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0046 SF Demolish Brick, Lead Contaminated Material	4.63	
02 83 19 13-0047 SF Demolish Concrete Block, Lead Contaminated Material	5.96	
02 83 19 13-0048 SF Demolish Up To 6" Concrete, Lead Contaminated Material	6.75	
02 83 19 13-0049 IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	5.26	
02 83 19 13-0050 IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	7.00	
02 83 19 13-0051 LF Demolish Wood Balustrades And Railings, Lead Contaminated Material	7.69	
02 83 19 13-0052 SF Demolish Concrete, Lead Contaminated Material	15.29	
02 83 19 13-0053 LF Demolish Cabinets, Lead Contaminated Material	35.61	
02 83 19 13-0054 SF Demolish Grilles, Lead Contaminated Material	4.29	
02 83 19 13-0055 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material	18.51	
02 83 19 13-0056 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material	7.59	
02 83 19 13-0057 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material	11.07	
02 83 19 13-0058 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material	16.74	
02 83 19 13-0059 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	30.87	
02 83 19 13-0060 EA Demolish Radiators, Lead Contaminated Material	133.34	
02 83 19 13-0061 SF Demolish Siding, Lead Contaminated Material	2.06	
02 83 19 13-0062 SF Demolish Flat Steel Surfaces, Lead Contaminated Material	4.80	
02 83 19 13-0063 SF Demolish Steel Beams, Lead Contaminated Material	5.66	
02 83 19 13-0064 SF Demolish Trusses, Lead Contaminated Material	7.42	
02 83 19 13-0065 SF Demolish Metal Stair, Lead Contaminated Material	8.83	
02 83 19 13-0066 LF Demolish Single Metal Hand Rail, Lead Contaminated Material	6.49	
02 83 19 13-0067 LF Demolish Metal Railing And Posts, Lead Contaminated Material	10.60	
02 83 19 13-0068 SF Demolish Metal Picket Fence, Lead Contaminated Material	2.91	
02 83 19 13-0069 SF Demolish Plywood, Lead Contaminated Material	7.97	
02 83 19 13-0070 SF Demolish Planks (Various Sizes), Lead Contaminated Material	3.89	
02 83 19 13-0071 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	24.34	
02 83 19 13-0072 LF Demolish Metal Guard Rails, Lead Contaminated Material	14.60	
02 83 19 13-0073 Wet Sanding/Light Scraping Of Lead Contaminated Material (02 83 19 13)		
Note: Remove loose, flaking lead-based paint to prepare for painting.		
02 83 19 13-0074 SF Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting	3.71	
02 83 19 13-0075 Lead Abatement Encapsulation (02 83 19 13)		
Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0076 SF Balustrades, Lead Abatement Encapsulation	6.75	
02 83 19 13-0077 SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	4.35	
02 83 19 13-0078 SF Columns, Lead Abatement Encapsulation	5.25	
02 83 19 13-0079 SF Picket Fence (Brush), Lead Abatement Encapsulation	3.15	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0080 SF Wood Floors (Roller), Lead Abatement Encapsulation	2.63	
02 83 19 13-0081 SF Grilles, Vents, Lead Abatement Encapsulation	7.28	
02 83 19 13-0082 EA Hangers, Lead Abatement Encapsulation	57.28	
02 83 19 13-0083 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation	4.10	
02 83 19 13-0084 LF >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation	5.90	
02 83 19 13-0085 LF >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation	9.17	
02 83 19 13-0086 LF >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation	13.55	
02 83 19 13-0087 SF Siding, Lead Abatement Encapsulation	3.75	
02 83 19 13-0088 SF Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation	4.35	
02 83 19 13-0089 SF Steel Beams And Metal Decks, Lead Abatement Encapsulation	5.67	
02 83 19 13-0090 SF Trusses, Lead Abatement Encapsulation	5.67	
02 83 33 Removal and Disposal of Material Containing Lead (02 83)		
02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)		
02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)		
02 83 33 13-0002 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent	0.31	
02 83 33 13-0003 SF High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate	0.31	
02 83 33 13-0004 SF High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting	1.54	
02 86 Hazardous Waste Drum Handling (02 86)		
02 86 00 00-0001 Hazardous Waste Packaging (02 86)		
02 86 00 00-0002 Overpacks (02 86 00 00-0001)		
02 86 00 00-0003 Steel Salvage Drums, 16 Gauge (02 86 00 00-0002)		
02 86 00 00-0004 EA 110 Gallon, 30" Diameter X 41" High	542.23	
02 86 00 00-0005 EA 85 Gallon, 26" Diameter X 38" High	308.65	
02 86 00 00-0006 EA 83 Gallon, 26" Diameter X 36" High	297.90	
02 86 00 00-0007 EA 55 Gallon, DOT 17C, 18" Diameter X 34" High	186.38	
02 86 00 00-0008 EA 30 Gallon, DOT 17C, 18" Diameter X 28" High	146.82	
02 86 00 00-0009 EA 22 Gallon, 16" Diameter X 25" High	98.92	
02 86 00 00-0010 EA 15 Gallon, DOT 17C, 14" Diameter X 24" High	89.44	
02 86 00 00-0011 EA 10 Gallon, 13.8" Diameter X 15" High	78.81	
02 86 00 00-0012 Polyethylene Overpacks (02 86 00 00-0002)		
02 86 00 00-0013 EA 95 Gallon, DOT E9618, Twist On Lid 31" Diameter X 41" High	612.48	
02 86 00 00-0014 EA 20 Gallon, Labpack, Twist On Lid 21" Diameter X 7.5" High	113.19	
02 86 00 00-0015 EA 85 Gallon, DOT E9775, Clamp Ring Lid, 27" Diameter X 41" High	554.22	
02 86 00 00-0016 Composite Overpacks (02 86 00 00-0002)		
02 86 00 00-0017 EA 55 Gal, DOT 17C, Steel Drum Nested With 2-20 Gallon Fiber Drums	300.75	
02 86 00 00-0018 EA 55 Gal, DOT 17C, Steel Drum Nested With 4-10 Gallon Fiber Drums	412.71	
02 86 00 00-0019 EA 85 Gal, 16 Gauge Salvage Drum Nested With 3-20 Gallon Fiber Drums	559.79	
02 86 00 00-0020 DOT E-9168 Exempt Packaging (02 86 00 00-0002)		
02 86 00 00-0021 EA 32 Oz Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	49.65	
02 86 00 00-0022 EA 950 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	52.38	
02 86 00 00-0023 EA 500 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	51.21	
02 86 00 00-0024 EA 250 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	25.36	
02 86 00 00-0025 EA Can, Carton, Insert, Tape - Corrosive And Flammable - UPS	16.11	
02 86 00 00-0026 EA 16 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS	8.34	
02 86 00 00-0027 EA 32 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS	10.85	
02 86 00 00-0028 Steel Drums (02 86 00 00-0001)		
02 86 00 00-0029 UN Rated Steel Drums (02 86 00 00-0028)		
02 86 00 00-0030 EA UN 1A2/X 320/S 55 Gallon, Open, 16 Gauge, Steel Drum	139.63	
02 86 00 00-0031 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (25-49)	1,380.00	
02 86 00 00-0032 EA 8 Gallon, 17C, Open, Steel Drum	100.98	
02 86 00 00-0033 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (10-24)	1,113.58	
02 86 00 00-0034 EA 55 Gallon Reconditioned Steel 17h Drum (50+)	98.79	
02 86 00 00-0035 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (25-49)	1,092.62	
02 86 00 00-0036 EA 55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (10-24)	1,598.52	
02 86 00 00-0037 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (50+)	1,308.15	
02 86 00 00-0038 EA UN 1A2/X 320/S 55 Gallon, Closed, 16 Gauge, Steel Drum	131.97	
02 86 00 00-0039 EA UN 1A2/Y 1.4/100 55 Gallon, Open, 16 Gauge, Steel Drum	107.01	
02 86 00 00-0040 EA 55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (1-9)	1,445.85	
02 86 00 00-0041 EA 55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (25-49)	1,568.59	
02 86 00 00-0042 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (50+)	984.86	
02 86 00 00-0043 EA 55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (50+)	1,412.93	
02 86 00 00-0044 EA UN 1A2/Y 1.4/100 55 Gallon, Closed, 16 Gauge, Steel Drum	84.33	



Existing Conditions			02
Facility Remediation			02 80
Hazardous Waste Drum Handling			02 86

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 86 00 00-0045 EA 55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (10-24).....	1,418.91	
02 86 00 00-0046 EA 30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	927.98	
02 86 00 00-0047 EA 30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	892.06	
02 86 00 00-0048 EA 55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	1,508.72	
02 86 00 00-0049 EA 55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (25-49).....	1,278.22	
02 86 00 00-0050 EA UN 1A2/X 160/S 30 Gallon, Open, 18 Gauge, Steel Drum.....	97.75	
02 86 00 00-0051 EA 55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (50+).....	1,212.36	
02 86 00 00-0052 EA UN 1A2/Y 1.4/100 30 Gallon, Open, 18 Gauge, Steel Drum.....	83.09	
02 86 00 00-0053 EA 55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	1,472.80	
02 86 00 00-0054 EA 30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	853.14	
02 86 00 00-0055 EA 30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	823.21	
02 86 00 00-0056 EA 55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	1,445.85	
02 86 00 00-0057 EA 30 Gallon, 17E, Open, Steel Drum.....	60.28	
02 86 00 00-0058 EA 55 Gallon Reconditioned Steel 17h Drum (1-9).....	144.89	
02 86 00 00-0059 EA 20 Gallon, 17C, Open, Steel Drum.....	84.72	
02 86 00 00-0060 EA 55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	1,302.17	
02 86 00 00-0061 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (1-9).....	1,559.61	
02 86 00 00-0062 EA 55 Gallon Reconditioned Steel 17h Drum (10-24).....	128.42	
02 86 00 00-0063 EA 55 Gallon Reconditioned Steel 17h Drum (25-49).....	111.96	
02 86 00 00-0064 EA 55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (1-9).....	1,140.52	
02 86 00 00-0065 EA 55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (10-24).....	1,529.67	
02 86 00 00-0066 EA 20 Gallon, 17E, Open, Steel Drum.....	57.02	
02 86 00 00-0067 Plastic Drums (02 86 00 00-0001)		
02 86 00 00-0068 Polyethylene Closed Head Drums (02 86 00 00-0067)		
Note: Closed head drums have standard NPS (National Pipe Standard) plug and drain vents. Primarily for liquids.		
02 86 00 00-0069 EA 55 Gallon Polyethylene Closed Head Drums.....	87.65	
02 86 00 00-0070 EA 35 Gallon Polyethylene Closed Head Drums.....	67.29	
02 86 00 00-0071 EA 30 Gallon Polyethylene Closed Head Drums.....	61.10	
02 86 00 00-0072 EA 20 Gallon Polyethylene Closed Head Drums.....	42.69	
02 86 00 00-0073 EA 15 Gallon Polyethylene Closed Head Drums.....	41.87	
02 86 00 00-0074 Polyethylene Open Head Drums (02 86 00 00-0067)		
Note: Open head drums are primarily used for solids and sludge.		
02 86 00 00-0075 EA 55 Gallon Polyethylene Open Head Drums.....	110.79	
02 86 00 00-0076 EA 35 Gallon Polyethylene Open Head Drums.....	81.46	
02 86 00 00-0077 EA 30 Gallon Polyethylene Open Head Drums.....	77.39	
02 86 00 00-0078 EA 20 Gallon Polyethylene Open Head Drums.....	57.02	
02 86 00 00-0079 EA 15 Gallon Polyethylene Open Head Drums.....	48.88	
02 86 00 00-0080 Fiber Drums (02 86 00 00-0001)		
02 86 00 00-0081 Steel Top/Fiber Bottom Drums, Hazardous (02 86 00 00-0080)		
Note: Waste fiber drums have tubular rubber gaskets and caulked bottom seams.		
02 86 00 00-0082 EA 30 Gallon Fiber Drum DOT-21C (1-9).....	67.12	
02 86 00 00-0083 EA 30 Gallon Fiber Drum DOT-21C (10-24).....	62.89	
02 86 00 00-0084 EA 30 Gallon Fiber Drum DOT-21C (25-49).....	57.35	
02 86 00 00-0085 EA 30 Gallon Fiber Drum DOT-21C (50+).....	56.70	
02 86 00 00-0086 EA 55 Gallon Fiber Drum DOT-21C (1-9).....	69.08	
02 86 00 00-0087 EA 55 Gallon Fiber Drum DOT-21C (10-24).....	65.17	
02 86 00 00-0088 EA 55 Gallon Fiber Drum DOT-21C (25-49).....	60.28	
02 86 00 00-0089 EA 55 Gallon Fiber Drum DOT-21C (50-99).....	58.33	
02 86 00 00-0090 EA 55 Gallon Fiber Drum DOT-21C (100+).....	50.51	
02 86 00 00-0091 EA 10 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined.....	43.01	
02 86 00 00-0092 EA 20 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined.....	46.92	
02 86 00 00-0093 EA 20 Gallon, 23" Diameter, DOT 21C-250 Polyethylene/Polyester Lined.....	54.74	
02 86 00 00-0094 Loading Hazardous Waste For Shipment (02 86 00 00-0001)		
02 86 00 00-0095 EA Load Drums On Disposal Truck.....	12.84	
02 86 00 00-0096 EA Load Liquid Or Sludge Into 5,000 Gallon Bulk Tank Truck.....	1,338.05	
02 86 00 00-0097 Transport Drums To Landfill (02 86 00 00-0001)		
Note: Includes transportation for up to 25 miles.		
02 86 00 00-0098 EA Transport Drum To Landfill.....	104.90	
Note: Includes transportation for up to 25 miles.		

02 87 Bio-Hazard Material Remediation (02 87)**02 87 13 Mold Remediation** (02 87)

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, cleanup, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

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other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0043 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.

02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)**02 87 13 33-0001 Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)**

Note: Treat fittings as additional lf of insulation.

02 87 13 33-0002 Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001)

Note: Diameter is outer size of insulation.

02 87 13 33-0003 Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)

Note: Excludes encased fittings.

02 87 13 33-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	869.48
02 87 13 33-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	33.72
02 87 13 33-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	25.40
02 87 13 33-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	19.16
02 87 13 33-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	14.47
02 87 13 33-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	12.65

02 87 13 33-0010 >6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)

02 87 13 33-0011	SET	Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	896.15
02 87 13 33-0012	LF	>20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	40.05
02 87 13 33-0013	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	30.48
02 87 13 33-0014	LF	>500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.30
02 87 13 33-0015	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	17.92
02 87 13 33-0016	LF	>10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	15.82

02 87 13 33-0017 Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)**02 87 13 33-0018 Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)**

02 87 13 33-0019	SET	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	882.81
02 87 13 33-0020	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	19.56
02 87 13 33-0021	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	14.78
02 87 13 33-0022	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	11.20
02 87 13 33-0023	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	8.68

02 87 13 33-0024 Surfacing Material, Mold Abatement And Disposal (02 87 13 33)

Note: e.g. fireproofing, acoustical plaster, etc.

02 87 13 33-0025 Stucco, Mold Abatement And Disposal (02 87 13 33-0024)

Note: Remove surface coat from brown coat or remove entire assembly, including lath.

02 87 13 33-0026	SET	Up To 50 SF, Stucco, Mold Abatement And Disposal	875.41
02 87 13 33-0027	SF	>50 To 500 SF, Stucco, Mold Abatement And Disposal	19.42
02 87 13 33-0028	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal	14.64
02 87 13 33-0029	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	11.06
02 87 13 33-0030	SF	>10,000 SF, Stucco, Mold Abatement And Disposal	8.39

02 87 13 33-0031 Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024)

Note: Exposed surface area, includes associated overspray.

02 87 13 33-0032	SET	Up To 50 SF, Fireproofing, Mold Abatement And Disposal	882.81
02 87 13 33-0033	SF	>50 To 500 SF, Fireproofing, Mold Abatement And Disposal	26.79
02 87 13 33-0034	SF	>500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	20.23
02 87 13 33-0035	SF	>2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	15.29
02 87 13 33-0036	SF	>10,000 SF, Fireproofing, Mold Abatement And Disposal	11.58

02 87 13 33-0037 Siding, Mold Abatement And Disposal (02 87 13 33)**02 87 13 33-0038 Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0037)**

02 87 13 33-0039	SET	Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal	890.23
02 87 13 33-0040	SF	>100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	7.98
02 87 13 33-0041	SF	>500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.55
02 87 13 33-0042	SF	>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.74
02 87 13 33-0043	SF	>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.37

02 87 13 33-0044 Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)**02 87 13 33-0045 Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0044)**

02 87 13 33-0046	SET	Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal	896.15
02 87 13 33-0047	CF	>20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	31.54
02 87 13 33-0048	CF	>100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	21.62
02 87 13 33-0049	CF	>250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	16.66
02 87 13 33-0050	CF	>500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	13.69
02 87 13 33-0051	CF	>2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.28
02 87 13 33-0052	CF	>10,000 CF, Contaminated Debris, Mold Abatement And Disposal	7.63



Existing Conditions		02
Facility Remediation		02 80
Bio-Hazard Material Remediation		02 87

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0053 Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0054 Caulking, Mold Abatement And Disposal (02 87 13 33-0053)		
02 87 13 33-0055 SET Up To 20 LF, Caulking, Mold Abatement And Disposal.....	215.64	
02 87 13 33-0056 LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	4.32	
02 87 13 33-0057 LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	3.09	
02 87 13 33-0058 LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	2.35	
02 87 13 33-0059 LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.74	
02 87 13 33-0060 LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	1.40	
02 87 13 33-0061 LF >2,500 LF, Caulking, Mold Abatement And Disposal	1.21	
02 87 13 33-0062 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0053)		
02 87 13 33-0063 CSF Wipe Down Floors With Mild Bleach Solution	23.91	
For >25 To 50, Deduct	-2.39	
For >50 To 200, Deduct	-5.98	
For >200, Deduct	-9.56	
02 87 13 33-0064 CSF Wipe Down Walls With Mild Bleach Solution	28.13	
For >25 To 50, Deduct	-2.81	
For >50 To 200, Deduct	-7.03	
For >200, Deduct	-11.25	
02 87 13 33-0065 CSF Wipe Down Ceilings With Mild Bleach Solution	32.00	
For >25 To 50, Deduct	-3.20	
For >50 To 200, Deduct	-8.00	
For >200, Deduct	-12.80	
02 87 13 33-0066 CSF Wipe Down Countertops With Mild Bleach Solution	26.09	
For >25 To 50, Deduct	-2.61	
02 87 13 33-0067 CSF Wipe Down Other Surfaces With Mild Bleach Solution	33.11	
For >25 To 50, Deduct	-3.31	
For >50 To 200, Deduct	-8.28	
For >200, Deduct	-13.24	
02 87 16 Excrement Removal (02 87)		
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, cleanup, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks, the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 16 13 Bird Excrement Removal (02 87 16)		
02 87 16 13-0001 Bird Waste Removal (02 87 16 13)		
Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002 EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness	860.59	
For Work In Restricted Working Space, Add	258.18	
02 87 16 13-0003 SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	14.34	
For Work In Restricted Working Space, Add	4.30	
02 87 16 13-0004 SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	13.04	
For Work In Restricted Working Space, Add	3.91	
02 87 16 13-0005 SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	11.86	
For Work In Restricted Working Space, Add	3.56	
02 87 16 13-0006 SF >10,000 SF Bird Waste Removal, Up To 3" Thickness	10.77	
For Work In Restricted Working Space, Add	3.23	
02 89 Hazmat Ancillary Tasks and Support (02 89)		
02 89 00 00-0001 Barriers And Protection (02 89)		
Note: Includes removal and disposal after use.		
02 89 00 00-0002 Hazmat Containment Construction Plastic Sheetting (02 89 00 00-0001)		
02 89 00 00-0003 SF 6 Mil Plastic Sheetting, Applied To Floors, Hazmat Containment Construction	0.52	
02 89 00 00-0004 SF 6 Mil Plastic Sheetting, Applied To Walls, Hazmat Containment Construction	0.69	
02 89 00 00-0005 SF 6 Mil Plastic Sheetting, Applied To Ceilings, Hazmat Containment Construction	0.92	
02 89 00 00-0006 SF 6 Mil Plastic Fire Retardant, Anti-static Sheetting, Applied To Floors, Hazmat Containment Construction	0.81	
02 89 00 00-0007 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheetting, Applied To Walls, Hazmat Containment Construction	1.03	
02 89 00 00-0008 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheetting, Applied To Ceilings, Hazmat Containment Construction	1.35	
02 89 00 00-0009 Decontamination Chambers (02 89)		
Note: Includes cleaning of contaminated materials, removal after use and disposal of plastic barriers. See CSI section 02 89 00 00-0001 for plastic barrier sheets.		
02 89 00 00-0010 EA 3 Stage Portable Personnel Decontamination Wash Facility	1,122.81	
Note: Includes connection to negative air system.		
02 89 00 00-0011 EA 5 Stage Portable Personnel Decontamination Wash Facility	1,324.62	
Note: Includes connection to negative air system.		

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	02 80	Facility Remediation
	02 89	Hazmat Ancillary Tasks and Support



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
02 89 00 00-0012	EA	Portable Waste Decontamination Unit.....		695.61	
		Note: Includes connection to negative air system.			
		For Dismantling And Relocation To A Different Area, Add		459.19	

END OF SECTION 02



Concrete		03
Maintenance of Concrete		03 01
Maintenance of Cast-In-Place Concrete		03 01 30

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 Concrete

03 01 Maintenance of Concrete⁽⁰³⁾

03 01 30 Maintenance of Cast-In-Place Concrete^(03 01)

03 01 30 51 Cleaning of Cast-In-Place Concrete^(03 01 30)

See CSI section 09 01 90 52-0002 for cleaning of concrete surfaces.

03 01 30 51-0001 Abrasive Blasting^(03 01 30 51)

Note: Includes containment and cleanup of all material. Includes steel ball media.

03 01 30 51-0002	SF	Concrete Floors, Abrasive Shot (Bead) Blasting.....	4.07
		For Up To 100, Add	3.56
		For >100 To 250, Add	0.89
		For >250 To 500, Add	0.45
		For >5,000 To 10,000, Deduct	-0.09
		For >10,000, Deduct	-0.18
03 01 30 51-0003	SF	Concrete Walls, Abrasive Shot (Bead) Blasting.....	5.84
		For Up To 100, Add	7.10
		For >100 To 250, Add	1.78
		For >250 To 500, Add	0.89
		For >5,000 To 10,000, Deduct	-0.18
		For >10,000, Deduct	-0.36

03 01 30 71 Rehabilitation of Cast-In-Place Concrete^(03 01 30)

03 01 30 71-0001 Concrete Resurfacing/Repair^(03 01 30 71)

See CSI section 09 01 90 52-0002 for surface preparation as required.

03 01 30 71-0002 Concrete Repair^(03 01 30 71-0001)

03 01 30 71-0003 Decks Or Floors^(03 01 30 71-0002)

Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.

03 01 30 71-0004	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar	7.41
03 01 30 71-0005	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	22.93
03 01 30 71-0006	SF	Patch Decks Or Floors With Non-Slip Aggregate, White Aluminum Oxide Grit	0.65

03 01 30 71-0007 Concrete Grinding^(03 01 30 71-0002)

03 01 30 71-0008	SF	Grinding Cured, Warped, Or Rough Concrete Slabs	1.24

Note: Up to 1/8" of material per pass

03 01 30 71-0009 Verticals Or Overheads^(03 01 30 71-0002)

Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.

03 01 30 71-0010	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar	11.13
03 01 30 71-0011	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	31.73
03 01 30 71-0012	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	35.62
03 01 30 71-0013	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	9.90
03 01 30 71-0014	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound	17.48

Note: Rapid Set - WunderFixx

03 01 30 71-0015 Circular Piers^(03 01 30 71-0002)

03 01 30 71-0016	SF	Patch Circular Piers With 1/8" To 1/4" Elastomeric Patching Compound	13.89
03 01 30 71-0017	SF	Patch Circular Piers With 1/8" To 1/4" Copolymer Cementitious Compound	23.85

Note: Rapid Set - WunderFixx

03 01 30 71-0018 Bridge Deck Treatment^(03 01 30 71-0002)

03 01 30 71-0019	SF	Sweep Bridge Deck	0.02
03 01 30 71-0020	SF	Clean Bridge Deck	0.04
03 01 30 71-0021	SF	Treat Bridge Deck With Methacrylate Resin Sealant	2.44

03 01 30 71-0022 Concrete Finishes^(03 01 30 71-0001)

03 01 30 71-0023 Concrete Patching^(03 01 30 71-0022)

03 01 30 71-0024 Walls^(03 01 30 71-0023)

03 01 30 71-0025	BAG	Sika Top 111 Plus.....	188.00

Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar.
Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 Lb. of 3/8" pea gravel).

		For Up To 10, Add	67.48
		For >10 To 25, Add	40.49
		For >25 To 50, Add	26.99
		For >50 To 75, Add	13.50

03 Concrete**03 01 Maintenance of Concrete****03 01 30 Maintenance of Cast-In-Place Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0026 BAG Sika Grout 212, 50 Lb. Bag.....	129.65	
Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.		
For Up To 10, Add	42.73	
For >10 To 25, Add	25.64	
For >25 To 50, Add	17.09	
For >50 To 75, Add	8.55	
03 01 30 71-0027 EA Sika Flex 1A, 10.3 Ounce Tube.....	45.16	
Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.		
03 01 30 71-0028 BAG Pea Gravel.....	33.72	
03 01 30 71-0029 Crack Repair For Concrete (03 01 30 71-0001)		
03 01 30 71-0030 Non-Structural Crack Repair For Concrete (03 01 30 71-0029)		
03 01 30 71-0031 Surface Applied, Non-Structural Crack Repair For Concrete (03 01 30 71-0030)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0032 LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.94	
For V-Grooving Crack With Grinder, Add	5.53	
03 01 30 71-0033 LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	9.07	
For V-Grooving Crack With Grinder, Add	5.40	
03 01 30 71-0034 LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	7.08	
For V-Grooving Crack With Grinder, Add	5.53	
03 01 30 71-0035 LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	9.36	
For V-Grooving Crack With Grinder, Add	5.40	
03 01 30 71-0036 LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	7.62	
For V-Grooving Crack With Grinder, Add	5.53	
03 01 30 71-0037 LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	10.44	
For V-Grooving Crack With Grinder, Add	5.40	
03 01 30 71-0038 LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	8.01	
For V-Grooving Crack With Grinder, Add	5.53	
03 01 30 71-0039 LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	11.22	
For V-Grooving Crack With Grinder, Add	5.40	
03 01 30 71-0040 Pressure Injected, Non-Structural Crack Repair For Concrete (03 01 30 71-0030)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0041 LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non-Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	32.21	
For Cracks Accessible From Both Sides, Add	6.56	
03 01 30 71-0042 Structural Crack Repair For Concrete (03 01 30 71-0029)		
03 01 30 71-0043 Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0042)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0044 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	8.11	
For V-Grooving Crack With Grinder, Add	5.53	
03 01 30 71-0045 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	11.42	
For V-Grooving Crack With Grinder, Add	5.40	
03 01 30 71-0046 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	7.90	
For V-Grooving Crack With Grinder, Add	5.53	
03 01 30 71-0047 LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	11.00	
For V-Grooving Crack With Grinder, Add	5.40	
03 01 30 71-0048 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	9.64	
For V-Grooving Crack With Grinder, Add	5.53	
03 01 30 71-0049 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	14.49	
For V-Grooving Crack With Grinder, Add	5.40	
03 01 30 71-0050 Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0042)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		



		Concrete	03
		Maintenance of Concrete	03 01
		Maintenance of Cast-In-Place Concrete	03 01 30

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0051 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	28.03	
For Cracks Accessible From Both Sides, Add	6.56	
03 01 30 71-0052 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	27.82	
For Cracks Accessible From Both Sides, Add	6.56	
03 01 30 71-0053 Carbon Fiber Strengthening System (03 01 30 71-0001)		
Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		
03 01 30 71-0054 SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer	111.15	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
For >500 To 1,000, Deduct	-7.36	
For >1,000 To 2,500, Deduct	-9.94	
For >2,500, Deduct	-12.92	
03 01 30 71-0055 SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer	99.62	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
For >500 To 1,000, Deduct	-6.49	
For >1,000 To 2,500, Deduct	-8.79	
For >2,500, Deduct	-11.47	
03 01 30 71-0056 SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer	93.14	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
For >500 To 1,000, Deduct	-6.01	
For >1,000 To 2,500, Deduct	-8.14	
For >2,500, Deduct	-10.66	
03 01 30 71-0057 SF Carbon Fiber Strengthening System For Concrete Walls, Per Layer.....	89.53	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
For >500 To 1,000, Deduct	-5.74	
For >1,000 To 2,500, Deduct	-7.78	
For >2,500, Deduct	-10.21	
03 01 30 71-0058 SF Carbon Fiber Strengthening System For Concrete Slab, Per Layer	84.49	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
For >500 To 1,000, Deduct	-5.36	
For >1,000 To 2,500, Deduct	-7.28	
For >2,500, Deduct	-9.58	
03 01 30 72 Strengthening Of Cast-in-Place Concrete (03 01 30)		
03 01 30 72-0001 Concrete Surface Repairs (03 01 30 72)		
03 01 30 72-0002 SF Sound The Concrete Surface To Locate Delaminated Areas	0.44	
03 05 Common Work Results For Concrete (03)		
03 05 13 Concrete Admixtures (03 05)		
03 05 13 00-0001 Concrete Admixtures (03 05 13)		
03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	7.99	
03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture	5.53	
03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	8.60	
03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	17.20	
03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture.....	15.36	
03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture.....	30.72	
03 05 13 00-0008 CY 1% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture.....	6.64	
03 05 13 00-0009 CY 2% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture.....	12.94	
03 05 13 00-0010 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	9.22	
03 05 13 00-0011 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	18.43	
03 05 13 00-0012 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	6.14	
03 05 13 00-0013 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	14.75	
03 05 13 00-0014 CY 1 Lb./CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	13.11	
03 05 13 00-0015 CY 1-1/2 Lb./CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture.....	19.66	
03 05 13 00-0016 CY 25 Lb./CY Steel Fibers, Concrete Admixture	42.30	
03 05 13 00-0017 CY 10% Microsilica (Silica Fume), Concrete Admixture	98.30	
03 05 13 00-0018 CY Corrosion Inhibiting Concrete Admixture	36.86	
03 05 13 00-0019 CY Winter Service Or Heat, Concrete Add	19.66	
03 05 13 00-0020 CY Chilled Water, Concrete Add	19.66	
03 05 13 00-0021 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	32.97	
03 05 13 00-0022 CY Standard Color (See Davis Colors Color Card), Concrete Admixture.....	54.94	
03 05 13 00-0023 CY Premium Color (See Davis Colors Color Card), Concrete Admixture	105.49	
03 05 13 00-0024 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	146.52	

03 10 Concrete Forming and Accessories (03)

03 11 Concrete Forming (03 10)

03 11 13 Structural Cast-In-Place Concrete Forming (03 11)

Note: Per square foot of formwork.

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0001	Wood Formwork	(03 11 13)		
Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.				
03 11 13 00-0002	Foundation Wood Formwork	(03 11 13 00-0001)		
Note: For foundation work below or at grade.				
03 11 13 00-0003	SF Continuous Footings Foundation Wood Formwork		9.92	
	For <1,000, Add		1.86	
	For Foundations >8' Below Grade, Add		1.80	
	For Curved Formwork, Add		3.61	
03 11 13 00-0004	SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork		11.82	
	For <1,000, Add		2.24	
	For Foundations >8' Below Grade, Add		2.18	
	For Curved Formwork, Add		4.35	
03 11 13 00-0005	SF Mat Foundation Wood Formwork		13.66	
	For <1,000, Add		2.62	
	For Foundations >8' Below Grade, Add		2.57	
	For Curved Formwork, Add		5.13	
03 11 13 00-0006	SF Grade Beams Or Duct Bank Foundation Wood Formwork		11.40	
	For <1,000, Add		2.17	
	For Foundations >8' Below Grade, Add		2.11	
	For Curved Formwork, Add		4.23	
03 11 13 00-0007	SF Below Grade Walls Foundation Wood Formwork		16.20	
Note: Excludes footing				
	For <1,000, Add		3.07	
	For Foundations >8' Below Grade, Add		2.99	
	For Curved Formwork, Add		5.98	
03 11 13 00-0008	Slab Edge And Block-Out Wood Formwork	(03 11 13 00-0001)		
03 11 13 00-0009	LF Up To 6" High Slab Edge and Block-Out Wood Formwork		7.68	
	For Foundations >8' Below Grade, Add		1.44	
	For Curved Formwork, Add		2.88	
	For Up To 250, Add		1.47	
03 11 13 00-0010	LF >6" To 12" High Slab Edge and Block-Out Wood Formwork		10.97	
	For Foundations >8' Below Grade, Add		2.01	
	For Curved Formwork, Add		4.01	
	For Up To 250, Add		2.07	
03 11 13 00-0011	SF >12" High Slab Edge and Block-Out Wood Formwork		14.06	
	For Foundations >8' Below Grade, Add		2.60	
	For Curved Formwork, Add		5.19	
	For <1,000, Add		2.67	
03 11 13 00-0012	Column Wood Formwork	(03 11 13 00-0001)		
03 11 13 00-0013	LF Up To 8" Square Column Wood Formwork		59.20	
03 11 13 00-0014	LF >8" To 12" Square Column Wood Formwork		85.94	
03 11 13 00-0015	LF >12" To 18" Square Column Wood Formwork		108.07	
03 11 13 00-0016	LF >18" To 24" Square Column Wood Formwork		155.29	
03 11 13 00-0017	LF >24" To 36" Square Column Wood Formwork		222.91	
03 11 13 00-0018	LF >36" To 48" Square Column Wood Formwork		294.72	
03 11 13 00-0019	Above Grade Wall Wood Formwork	(03 11 13 00-0001)		
03 11 13 00-0020	SF Up To 8' High Above Grade Wall Wood Formwork		18.12	
	For Curved Formwork, Add		6.75	
	For <1,000, Add		3.46	
03 11 13 00-0021	SF >8' High Above Grade Wall Wood Formwork		21.48	
	For Curved Formwork, Add		8.02	
	For <1,000, Add		4.10	
03 11 13 00-0022	Elevated Beam Wood Formwork	(03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.				
03 11 13 00-0023	SF Bottom of Elevated Beam Wood Formwork		23.80	
	For Curved Formwork, Add		8.81	
	For <1,000, Add		4.52	
03 11 13 00-0024	SF Vertical Sides of Elevated Beam Wood Formwork		15.03	
	For Curved Formwork, Add		5.62	
	For <1,000, Add		2.88	
03 11 13 00-0025	Elevated Slab Wood Formwork	(03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.				
03 11 13 00-0026	SF Elevated Slab Wood Formwork		13.99	
	For <1,000, Add		2.58	
03 11 13 00-0027	Metal Framed Formwork	(03 11 13)		
Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.				



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Forming	03 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0028		Foundation Metal Framed Formwork (03 11 13 00-0027) Note: For foundation work below or at grade.		
03 11 13 00-0029	SF	Continuous Footings Foundation Metal Framed Formwork	9.88	
		For <1,000, Add	1.77	
		For Foundations >8' Below Grade, Add	1.67	
		For Curved Formwork, Add	3.33	
03 11 13 00-0030	SF	Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork	10.91	
		For <1,000, Add	1.97	
		For Foundations >8' Below Grade, Add	1.87	
		For Curved Formwork, Add	3.73	
03 11 13 00-0031	SF	Mat Foundation Metal Framed Formwork	12.30	
		For <1,000, Add	2.20	
		For Foundations >8' Below Grade, Add	2.06	
		For Curved Formwork, Add	4.13	
03 11 13 00-0032	SF	Grade Beams Or Duct Bank Foundation Metal Framed Formwork	10.38	
		For <1,000, Add	1.85	
		For Foundations >8' Below Grade, Add	1.73	
		For Curved Formwork, Add	3.47	
03 11 13 00-0033	SF	Below Grade Walls Foundation Metal Framed Formwork	15.66	
		Note: Excludes footing.		
		For <1,000, Add	2.85	
		For Foundations >8' Below Grade, Add	2.71	
		For Curved Formwork, Add	5.41	
03 11 13 00-0034		Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0035	LF	Up To 6" High Slab Edge and Block-Out Metal Framed Formwork	6.70	
		For Foundations >8' Below Grade, Add	1.30	
		For Curved Formwork, Add	2.59	
		For <250, Add	1.31	
03 11 13 00-0036	LF	>6" To 12" High Slab Edge and Block-Out Metal Framed Formwork	8.39	
		For Foundations >8' Below Grade, Add	1.61	
		For Curved Formwork, Add	3.22	
		For <250, Add	1.63	
03 11 13 00-0037	SF	>12" High Slab Edge and Block-Out Metal Framed Formwork	9.30	
		For Foundations >8' Below Grade, Add	1.78	
		For Curved Formwork, Add	3.56	
		For <1,000, Add	1.81	
03 11 13 00-0038		Column Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0039		Square Columns (03 11 13 00-0038)		
03 11 13 00-0040	LF	Up To 12" Square Column Metal Framed Formwork	60.86	
03 11 13 00-0041	LF	>12" To 16" Square Column Metal Framed Formwork	73.79	
03 11 13 00-0042	LF	>16" To 20" Square Column Metal Framed Formwork	86.74	
03 11 13 00-0043	LF	>20" To 24" Square Column Metal Framed Formwork	103.52	
03 11 13 00-0044	LF	>24" To 30" Square Column Metal Framed Formwork	124.84	
03 11 13 00-0045	LF	>30" To 36" Square Column Metal Framed Formwork	150.15	
03 11 13 00-0046	LF	>36" To 48" Square Column Metal Framed Formwork	192.81	
03 11 13 00-0047	LF	>48" To 60" Square Column Metal Framed Formwork	238.16	
03 11 13 00-0048		Round Columns (03 11 13 00-0038)		
03 11 13 00-0049	LF	Up To 12" Diameter Column Metal Formwork	66.98	
03 11 13 00-0050	LF	>12" To 16" Diameter Column Metal Formwork	73.93	
03 11 13 00-0051	LF	>16" To 20" Diameter Column Metal Formwork	84.23	
03 11 13 00-0052	LF	>20" To 24" Diameter Column Metal Formwork	97.10	
03 11 13 00-0053	LF	>24" To 30" Diameter Column Metal Formwork	113.90	
03 11 13 00-0054	LF	>30" To 36" Diameter Column Metal Formwork	129.91	
03 11 13 00-0055	LF	>36" To 48" Diameter Column Metal Formwork	171.11	
03 11 13 00-0056	LF	>48" To 60" Diameter Column Metal Formwork	230.01	
03 11 13 00-0057		Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0058	SF	Up to 8' High Above Grade Wall Metal Framed Formwork	9.92	
		For Curved Formwork, Add	3.12	
		For <1,000, Add	1.70	
03 11 13 00-0059	SF	>8' High Above Grade Wall Metal Framed Formwork	12.18	
		For Curved Formwork, Add	3.77	
		For <1,000, Add	2.07	
03 11 13 00-0060		Elevated Beam Metal Framed Formwork (03 11 13 00-0027) Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0061	SF	Bottom of Elevated Beam Metal Framed Formwork	9.71	
		For Curved Formwork, Add	2.90	
		For <1,000, Add	1.61	
03 11 13 00-0062	SF	Vertical Sides of Elevated Beam Metal Framed Formwork	7.45	
		For Curved Formwork, Add	2.29	
		For <1,000, Add	1.26	

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0063		Elevated Slab Metal Framed Formwork (03 11 13 00-0027) Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0064	SF	Elevated Slab Metal Framed Formwork.....	12.85	
		For <1,000, Add	1.93	
03 11 13 00-0065		Fiber Tube Formwork (03 11 13) Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
03 11 13 00-0066		Round Column Fiber Tube Formwork (03 11 13 00-0065)		
03 11 13 00-0067	LF	6" Diameter Round Fiber Tube Formwork	23.43	
		For Plastic Lined, Add	0.88	
		For Columns >12' In Length, Add	2.34	
03 11 13 00-0068	LF	8" Diameter Round Fiber Tube Formwork	24.76	
		For Plastic Lined, Add	1.04	
		For Columns >12' In Length, Add	2.48	
03 11 13 00-0069	LF	10" Diameter Round Fiber Tube Formwork	27.50	
		For Plastic Lined, Add	1.25	
		For Columns >12' In Length, Add	2.75	
03 11 13 00-0070	LF	12" Diameter Round Fiber Tube Formwork	33.95	
		For Plastic Lined, Add	2.23	
		For Columns >12' In Length, Add	3.40	
03 11 13 00-0071	LF	14" Diameter Round Fiber Tube Formwork	38.09	
		For Plastic Lined, Add	2.82	
		For Columns >12' In Length, Add	3.81	
03 11 13 00-0072	LF	16" Diameter Round Fiber Tube Formwork	41.44	
		For Plastic Lined, Add	3.51	
		For Columns >12' In Length, Add	4.14	
03 11 13 00-0073	LF	18" Diameter Round Fiber Tube Formwork	44.59	
		For Plastic Lined, Add	4.11	
		For Columns >12' In Length, Add	4.46	
03 11 13 00-0074	LF	20" Diameter Round Fiber Tube Formwork	50.65	
		For Plastic Lined, Add	5.58	
		For Columns >12' In Length, Add	5.07	
03 11 13 00-0075	LF	22" Diameter Round Fiber Tube Formwork	53.02	
		For Plastic Lined, Add	5.81	
		For Columns >12' In Length, Add	5.30	
03 11 13 00-0076	LF	24" Diameter Round Fiber Tube Formwork	55.69	
		For Plastic Lined, Add	6.13	
		For Columns >12' In Length, Add	5.57	
03 11 13 00-0077	LF	26" Diameter Round Fiber Tube Formwork	57.95	
		For Plastic Lined, Add	6.62	
		For Columns >12' In Length, Add	5.80	
03 11 13 00-0078	LF	28" Diameter Round Fiber Tube Formwork	60.19	
		For Plastic Lined, Add	7.10	
		For Columns >12' In Length, Add	6.02	
03 11 13 00-0079	LF	30" Diameter Round Fiber Tube Formwork	62.46	
		For Plastic Lined, Add	7.59	
		For Columns >12' In Length, Add	6.25	
03 11 13 00-0080	LF	36" Diameter Round Fiber Tube Formwork	72.02	
		For Plastic Lined, Add	9.76	
		For Columns >12' In Length, Add	7.20	
03 11 13 00-0081	LF	42" Diameter Round Fiber Tube Formwork	112.46	
		For Plastic Lined, Add	21.40	
		For Columns >12' In Length, Add	11.25	
03 11 13 00-0082	LF	48" Diameter Round Fiber Tube Formwork	136.68	
		For Plastic Lined, Add	28.16	
		For Columns >12' In Length, Add	13.67	
03 11 13 00-0083	LF	54" Diameter Round Fiber Tube Formwork	245.05	
		For Plastic Lined, Add	59.87	
		For Columns >12' In Length, Add	24.51	
03 11 13 00-0084	LF	60" Diameter Round Fiber Tube Formwork	272.76	
		For Plastic Lined, Add	67.56	
		For Columns >12' In Length, Add	27.28	
03 11 13 00-0085		Accessories For Formwork (03 11 13)		
03 11 13 00-0086		Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087	LF	2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials	2.85	
03 11 13 00-0088		Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089	LF	1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.00	
03 11 13 00-0090	LF	3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.48	
03 11 13 00-0091	LF	1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	4.02	
03 11 13 00-0092		Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093	LF	24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork	14.64	
03 11 13 00-0094		Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Forming	03 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	17.00	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	20.45	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	24.72	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	27.87	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	35.87	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	77.01	
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13 Concrete Form Liners (03 11 16)		
03 11 16 13-0001 Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork	6.77	
03 11 16 13-0003 SF Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	9.14	
03 11 16 13-0004 SF Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	12.02	
03 11 23 Permanent Stair Forming (03 11)		
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork.....	23.06	
For Curved Formwork, Add	8.91	
For <1,000, Add	4.51	
03 11 23 00-0003 SF Elevated Stairway Wood Formwork.....	45.77	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	17.46	
For <1,000, Add	8.87	
03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)		
03 11 23 00-0005 SF Cast On Grade Stairway Metal Framed Formwork.....	19.94	
For Curved Formwork, Add	7.40	
For <1,000, Add	3.80	
03 11 23 00-0006 SF Elevated Stairway Metal Framed Formwork.....	36.57	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
For Curved Formwork, Add	13.69	
For <1,000, Add	7.00	
03 15 Concrete Accessories (03 10)		
03 15 13 Waterstops (03 15)		
03 15 13 13 Non-Expanding Waterstops (03 15 13)		
03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)		
03 15 13 13-0002 LF 3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	10.99	
03 15 13 13-0003 LF 3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	12.27	
03 15 13 13-0004 LF 3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	14.57	
03 15 13 13-0005 LF 3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	15.90	
03 15 13 13-0006 LF 1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	23.02	
03 15 13 13-0007 LF 3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	11.61	
03 15 13 13-0008 LF 3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	14.67	
03 15 13 13-0009 LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	24.98	
03 15 13 13-0010 LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	20.09	
03 15 13 13-0011 Rubber Waterstops (03 15 13 13)		
03 15 13 13-0012 LF 3/8" Thick x 6" Wide Rubber Dumbbell Waterstop.....	12.20	
03 15 13 13-0013 LF 3/8" Thick x 9" Wide Rubber Dumbbell Waterstop.....	13.89	
03 15 13 13-0014 LF 1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb.....	12.45	
03 15 13 13-0015 LF 1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb.....	16.70	
03 15 13 13-0016 LF 3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb.....	14.21	
03 15 13 13-0017 LF 3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb.....	17.88	
03 15 13 16 Expanding Waterstops (03 15 13)		
03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)		
03 15 13 16-0002 LF 3/4" x 3/8" Bentonite Waterstop	9.57	
03 15 13 16-0003 LF 1-1/4" x 1/2" Bentonite Waterstop.....	14.42	
03 15 13 16-0004 LF 1" x 3/4" Bentonite Waterstop	16.13	
03 15 13 16-0005 LF 1" x 1" Bentonite Waterstop	18.14	
03 15 16 Concrete Construction Joints (03 15)		
03 15 16 00-0001 Poured Expansion Joint (03 15 16)		
03 15 16 00-0002 LF 1/2" x 1" Plain Asphalt Expansion Joint, Poured.....	3.46	0.96
For Installation In Walls, Add	1.60	
03 15 16 00-0003 LF 1" x 2" Plain Asphalt Expansion Joint, Poured.....	7.78	0.96
For Installation In Walls, Add	1.80	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0004 LF 1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied <i>For Installation In Walls, Add</i>	4.04 1.60	0.96
03 15 16 00-0005 LF 1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied <i>For Installation In Walls, Add</i>	10.05 1.80	0.96
03 15 16 00-0006 LF 1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts <i>For Installation In Walls, Add</i>	5.93 1.80	0.96
03 15 16 00-0007 LF 1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts <i>For Installation In Walls, Add</i>	10.94 2.93	0.96
03 15 16 00-0008 LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied <i>For Installation In Walls, Add</i>	3.85 1.60	0.96
03 15 16 00-0009 LF 1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant <i>For Installation In Walls, Add</i>	4.74 1.60	0.96
03 15 16 00-0010 LF 1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant <i>For Installation In Walls, Add</i>	12.38 1.80	0.96
03 15 16 00-0011 Premolded Expansion Joints (03 15 16)		
03 15 16 00-0012 Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0013 LF 1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	3.11	1.43
03 15 16 00-0014 LF 1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.57	1.50
03 15 16 00-0015 LF 1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.85	1.57
03 15 16 00-0016 LF 1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.15	1.64
03 15 16 00-0017 LF 3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	3.41	1.43
03 15 16 00-0018 LF 3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.80	1.50
03 15 16 00-0019 LF 3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	4.29	1.57
03 15 16 00-0020 LF 3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.97	1.64
03 15 16 00-0021 LF 1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	3.08	1.36
03 15 16 00-0022 LF 1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	3.36	1.43
03 15 16 00-0023 LF 1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.68	1.50
03 15 16 00-0024 LF 1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.97	1.57
03 15 16 00-0025 LF 1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.31	1.64
03 15 16 00-0026 LF 1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.80	1.71
03 15 16 00-0027 LF 1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	5.17	1.79
03 15 16 00-0028 LF 1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint	5.81	1.86
03 15 16 00-0029 LF 3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.70	1.50
03 15 16 00-0030 LF 3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	4.27	1.57
03 15 16 00-0031 LF 3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	5.24	1.71
03 15 16 00-0032 SF 1" Asphalt Saturated Fiber, Premolded Expansion Joint	9.12	2.36
03 15 16 00-0033 Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034 LF 1/2" x 4" Cork, Premolded Expansion Joint	5.36	1.50
03 15 16 00-0035 LF 1/2" x 6" Cork, Premolded Expansion Joint	6.04	1.64
03 15 16 00-0036 LF 1/2" x 8" Cork, Premolded Expansion Joint	6.58	1.71
03 15 16 00-0037 LF 1/2" x 10" Cork, Premolded Expansion Joint	9.26	1.79
03 15 16 00-0038 LF 1/2" x 12" Cork, Premolded Expansion Joint	9.86	1.86
03 15 16 00-0039 SF 1/2" Cork, Premolded Expansion Joint	10.88	2.36
03 15 16 00-0040 SF 3/4" Cork, Premolded Expansion Joint	12.63	2.36
03 15 16 00-0041 SF 1" Cork, Premolded Expansion Joint	13.44	2.36
03 15 16 00-0042 Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043 LF 1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	3.37	1.50
03 15 16 00-0044 LF 1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.53	1.57
03 15 16 00-0045 LF 1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.72	1.64
03 15 16 00-0046 LF 1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	4.34	1.71
03 15 16 00-0047 LF 1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	3.47	1.50
03 15 16 00-0048 LF 1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.64	1.57
03 15 16 00-0049 LF 1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.78	1.64
03 15 16 00-0050 LF 1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	4.17	1.71
03 15 16 00-0051 Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052 LF 1" Zip Strip, Premolded Expansion Joint	3.41	1.50
03 15 16 00-0053 LF 1-1/2" Zip Strip, Premolded Expansion Joint	3.73	1.57
03 15 16 00-0054 LF 2" Zip Strip, Premolded Expansion Joint	4.16	1.71
03 15 16 00-0055 Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056 LF 1/2" x 4" Sponge Rubber, Premolded Expansion Joint	5.42	1.43
03 15 16 00-0057 LF 1/2" x 6" Sponge Rubber, Premolded Expansion Joint	6.50	1.43
03 15 16 00-0058 Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059 SF Asphalt Felt Control Joint, 30 Lb. Felt Bond Breaker >1,250, Deduct	1.61 -0.08	1.08
03 15 16 00-0060 SF Asphalt Felt Control Joint, 15 Lb. Felt Bond Breaker >1,250, Deduct	1.52 -0.08	1.08



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Accessories	03 15	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 15 16 00-0061	Keyed Cold Expansion And Control Joints (03 15 16)			
03 15 16 00-0062	24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)			
03 15 16 00-0063	LF 24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint.....		7.97	
03 15 16 00-0064	LF 24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....		8.09	
03 15 16 00-0065	LF 24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....		8.38	
03 15 16 00-0066	LF 24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....		8.83	
03 15 16 00-0067	LF 24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....		10.73	
03 15 19	Cast-In Concrete Anchors (03 15)			
03 15 19 00-0001	Cast In Place Anchors (03 15 19)			
	Note: For cast in place installations. Includes nut and washer.			
03 15 19 00-0002	J-Type Anchor Bolts (03 15 19 00-0001)			
	See CSI section 03 11 13 00-0002 for template.			
03 15 19 00-0003	1/2" And 5/8" Diameter (03 15 19 00-0002)			
03 15 19 00-0004	EA 1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		15.73	
	For Galvanized, Add		3.80	
	For Stainless Steel, Add		26.57	
	For >10 To 50, Deduct		-0.41	
	For >50 To 100, Deduct		-1.00	
	For >100, Deduct		-2.01	
03 15 19 00-0005	EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		18.43	
	For Galvanized, Add		4.84	
	For Stainless Steel, Add		33.85	
	For >10 To 50, Deduct		-0.44	
	For >50 To 100, Deduct		-1.12	
	For >100, Deduct		-2.24	
03 15 19 00-0006	EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		22.82	
	For Galvanized, Add		6.66	
	For Stainless Steel, Add		46.62	
	For >10 To 50, Deduct		-0.48	
	For >50 To 100, Deduct		-1.28	
	For >100, Deduct		-2.57	
03 15 19 00-0007	EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		26.90	
	For Galvanized, Add		8.70	
	For Stainless Steel, Add		60.90	
	For >10 To 50, Deduct		-0.48	
	For >50 To 100, Deduct		-1.39	
	For >100, Deduct		-2.77	
03 15 19 00-0008	EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		33.58	
	For Galvanized, Add		11.62	
	For Stainless Steel, Add		81.31	
	For >10 To 50, Deduct		-0.52	
	For >50 To 100, Deduct		-1.62	
	For >100, Deduct		-3.23	
03 15 19 00-0009	EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		37.94	
	For Galvanized, Add		13.28	
	For Stainless Steel, Add		92.93	
	For >10 To 50, Deduct		-0.57	
	For >50 To 100, Deduct		-1.80	
	For >100, Deduct		-3.61	
03 15 19 00-0010	3/4" And 7/8" Diameter (03 15 19 00-0002)			
03 15 19 00-0011	EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		37.75	
	For Galvanized, Add		13.18	
	For Stainless Steel, Add		92.26	
	For >10 To 50, Deduct		-0.57	
	For >50 To 100, Deduct		-1.80	
	For >100, Deduct		-3.60	
03 15 19 00-0012	EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		43.39	
	For Galvanized, Add		15.37	
	For Stainless Steel, Add		107.56	
	For >10 To 50, Deduct		-0.63	
	For >50 To 100, Deduct		-2.03	
	For >100, Deduct		-4.07	
03 15 19 00-0013	EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		53.60	
	For Galvanized, Add		19.68	
	For Stainless Steel, Add		137.76	
	For >10 To 50, Deduct		-0.71	
	For >50 To 100, Deduct		-2.41	
	For >100, Deduct		-4.82	
03 15 19 00-0014	EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		65.56	
	For Galvanized, Add		24.80	
	For Stainless Steel, Add		173.60	
	For >10 To 50, Deduct		-0.80	
	For >50 To 100, Deduct		-2.84	
	For >100, Deduct		-5.67	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0015 EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 50.28 For Galvanized, Add 18.02 For Stainless Steel, Add 126.14 For >10 To 50, Deduct -0.71 For >50 To 100, Deduct -2.33 For >100, Deduct -4.65		
03 15 19 00-0016 EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 59.43 For Galvanized, Add 21.58 For Stainless Steel, Add 151.03 For >10 To 50, Deduct -0.81 For >50 To 100, Deduct -2.71 For >100, Deduct -5.41		
03 15 19 00-0017 EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 76.51 For Galvanized, Add 28.76 For Stainless Steel, Add 201.32 For >10 To 50, Deduct -0.95 For >50 To 100, Deduct -3.34 For >100, Deduct -6.67		
03 15 19 00-0018 1" And 1-1/8" Diameter (03 15 19 00-0002).....62.89		
03 15 19 00-0019 EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 62.89 For Galvanized, Add 23.31 For Stainless Steel, Add 163.14 For >10 To 50, Deduct -0.81 For >50 To 100, Deduct -2.79 For >100, Deduct -5.59		
03 15 19 00-0020 EA 1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 75.08 For Galvanized, Add 28.05 For Stainless Steel, Add 196.32 For >10 To 50, Deduct -0.95 For >50 To 100, Deduct -3.30 For >100, Deduct -6.60		
03 15 19 00-0021 EA 1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 93.10 For Galvanized, Add 35.16 For Stainless Steel, Add 246.12 For >10 To 50, Deduct -1.14 For >50 To 100, Deduct -4.04 For >100, Deduct -8.07		
03 15 19 00-0022 EA 1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 114.40 For Galvanized, Add 42.96 For Stainless Steel, Add 300.72 For >10 To 50, Deduct -1.42 For >50 To 100, Deduct -5.00 For >100, Deduct -9.99		
03 15 19 00-0023 EA 1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 76.13 For Galvanized, Add 29.14 For Stainless Steel, Add 203.95 For >10 To 50, Deduct -0.89 For >50 To 100, Deduct -3.24 For >100, Deduct -6.49		
03 15 19 00-0024 EA 1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 90.97 For Galvanized, Add 35.07 For Stainless Steel, Add 245.46 For >10 To 50, Deduct -1.04 For >50 To 100, Deduct -3.84 For >100, Deduct -7.67		
03 15 19 00-0025 EA 1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 112.93 For Galvanized, Add 43.96 For Stainless Steel, Add 307.69 For >10 To 50, Deduct -1.25 For >50 To 100, Deduct -4.70 For >100, Deduct -9.40		
03 15 19 00-0026 EA 1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 138.67 For Galvanized, Add 53.70 For Stainless Steel, Add 375.90 For >10 To 50, Deduct -1.56 For >50 To 100, Deduct -5.81 For >100, Deduct -11.62		
03 15 19 00-0027 1-1/4" And 1-1/2" Diameter (03 15 19 00-0002).....92.62		
03 15 19 00-0028 EA 1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 92.62 For Galvanized, Add 36.42 For Stainless Steel, Add 254.91 For >10 To 50, Deduct -0.99 For >50 To 100, Deduct -3.80 For >100, Deduct -7.60		
03 15 19 00-0029 EA 1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 110.76 For Galvanized, Add 43.84 For Stainless Steel, Add 306.85 For >10 To 50, Deduct -1.15 For >50 To 100, Deduct -4.50 For >100, Deduct -9.00		



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Accessories	03 15	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 15 19 00-0030	EA 1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	137.62		
	For Galvanized, Add	54.96		
	For Stainless Steel, Add	384.69		
	For >10 To 50, Deduct	-1.39		
	For >50 To 100, Deduct	-5.52		
	For >100, Deduct	-11.04		
03 15 19 00-0031	EA 1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	168.86		
	For Galvanized, Add	67.12		
	For Stainless Steel, Add	469.81		
	For >10 To 50, Deduct	-1.73		
	For >50 To 100, Deduct	-6.82		
	For >100, Deduct	-13.64		
03 15 19 00-0032	EA 1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	113.24		
	For Galvanized, Add	45.52		
	For Stainless Steel, Add	318.64		
	For >10 To 50, Deduct	-1.11		
	For >50 To 100, Deduct	-4.50		
	For >100, Deduct	-8.99		
03 15 19 00-0033	EA 1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	135.48		
	For Galvanized, Add	54.79		
	For Stainless Steel, Add	383.53		
	For >10 To 50, Deduct	-1.30		
	For >50 To 100, Deduct	-5.33		
	For >100, Deduct	-10.66		
03 15 19 00-0034	EA 1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	168.49		
	For Galvanized, Add	68.71		
	For Stainless Steel, Add	480.94		
	For >10 To 50, Deduct	-1.55		
	For >50 To 100, Deduct	-6.54		
	For >100, Deduct	-13.09		
03 15 19 00-0035	EA 1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	206.64		
	For Galvanized, Add	83.91		
	For Stainless Steel, Add	587.34		
	For >10 To 50, Deduct	-1.94		
	For >50 To 100, Deduct	-8.08		
	For >100, Deduct	-16.16		
03 15 19 00-0036	L-Type Anchor Bolts (03 15 19 00-0001)			
	See CSI section 03 11 13 00-0002 for template.			
03 15 19 00-0037	3/4" And 7/8" Diameter (03 15 19 00-0036)			
03 15 19 00-0038	EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	32.81		
	For Galvanized, Add	10.08		
	For Stainless Steel, Add	70.53		
	For >10 To 50, Deduct	-0.63		
	For >50 To 100, Deduct	-1.77		
	For >100, Deduct	-3.54		
03 15 19 00-0039	EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	39.13		
	For Galvanized, Add	12.45		
	For Stainless Steel, Add	87.12		
	For >10 To 50, Deduct	-0.71		
	For >50 To 100, Deduct	-2.05		
	For >100, Deduct	-4.09		
03 15 19 00-0040	EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	44.82		
	For Galvanized, Add	14.27		
	For Stainless Steel, Add	99.89		
	For >10 To 50, Deduct	-0.81		
	For >50 To 100, Deduct	-2.34		
	For >100, Deduct	-4.68		
03 15 19 00-0041	EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.63		
	For Galvanized, Add	14.82		
	For Stainless Steel, Add	103.74		
	For >10 To 50, Deduct	-0.95		
	For >50 To 100, Deduct	-2.64		
	For >100, Deduct	-5.28		
03 15 19 00-0042	EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	53.88		
	For Galvanized, Add	15.55		
	For Stainless Steel, Add	108.85		
	For >10 To 50, Deduct	-1.14		
	For >50 To 100, Deduct	-3.06		
	For >100, Deduct	-6.11		
03 15 19 00-0043	EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	39.23		
	For Galvanized, Add	12.50		
	For Stainless Steel, Add	87.47		
	For >10 To 50, Deduct	-0.71		
	For >50 To 100, Deduct	-2.05		
	For >100, Deduct	-4.10		
03 15 19 00-0044	EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	45.39		
	For Galvanized, Add	14.56		
	For Stainless Steel, Add	101.89		
	For >10 To 50, Deduct	-0.81		
	For >50 To 100, Deduct	-2.36		
	For >100, Deduct	-4.71		

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0045 EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	52.37	
For Galvanized, Add	16.69	
For Stainless Steel, Add	116.83	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-2.73	
For >100, Deduct	-5.47	
03 15 19 00-0046 EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	57.44	
For Galvanized, Add	17.33	
For Stainless Steel, Add	121.31	
For >10 To 50, Deduct	-1.14	
For >50 To 100, Deduct	-3.14	
For >100, Deduct	-6.29	
03 15 19 00-0047 EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	64.90	
For Galvanized, Add	18.21	
For Stainless Steel, Add	127.47	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-3.76	
For >100, Deduct	-7.52	
03 15 19 00-0048 1" And 1-1/8" Diameter (03 15 19 00-0036)		
03 15 19 00-0049 EA 1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.33	
For Galvanized, Add	16.03	
For Stainless Steel, Add	112.18	
For >10 To 50, Deduct	-0.81	
For >50 To 100, Deduct	-2.43	
For >100, Deduct	-4.86	
03 15 19 00-0050 EA 1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	55.03	
For Galvanized, Add	18.02	
For Stainless Steel, Add	126.14	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-2.80	
For >100, Deduct	-5.60	
03 15 19 00-0051 EA 1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	63.08	
For Galvanized, Add	20.15	
For Stainless Steel, Add	141.05	
For >10 To 50, Deduct	-1.14	
For >50 To 100, Deduct	-3.29	
For >100, Deduct	-6.57	
03 15 19 00-0052 EA 1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	66.97	
For Galvanized, Add	21.10	
For Stainless Steel, Add	147.70	
For >10 To 50, Deduct	-1.24	
For >50 To 100, Deduct	-3.53	
For >100, Deduct	-7.06	
03 15 19 00-0053 EA 1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	72.67	
For Galvanized, Add	22.10	
For Stainless Steel, Add	154.67	
For >10 To 50, Deduct	-1.42	
For >50 To 100, Deduct	-3.95	
For >100, Deduct	-7.91	
03 15 19 00-0054 EA 1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	82.85	
For Galvanized, Add	25.61	
For Stainless Steel, Add	179.24	
For >10 To 50, Deduct	-1.58	
For >50 To 100, Deduct	-4.44	
For >100, Deduct	-8.89	
03 15 19 00-0055 EA 1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	97.91	
For Galvanized, Add	29.97	
For Stainless Steel, Add	209.76	
For >10 To 50, Deduct	-1.90	
For >50 To 100, Deduct	-5.30	
For >100, Deduct	-10.59	
03 15 19 00-0056 EA 1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	61.14	
For Galvanized, Add	21.08	
For Stainless Steel, Add	147.53	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-2.95	
For >100, Deduct	-5.91	
03 15 19 00-0057 EA 1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	69.96	
For Galvanized, Add	23.59	
For Stainless Steel, Add	165.13	
For >10 To 50, Deduct	-1.14	
For >50 To 100, Deduct	-3.46	
For >100, Deduct	-6.92	
03 15 19 00-0058 EA 1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	74.13	
For Galvanized, Add	24.68	
For Stainless Steel, Add	172.76	
For >10 To 50, Deduct	-1.24	
For >50 To 100, Deduct	-3.71	
For >100, Deduct	-7.42	

03 15 19 00-0059 1-1/4" And 1-3/8" Diameter (03 15 19 00-0036)



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Accessories	03 15	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0060	EA	1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	73.75	
		For Galvanized, Add	25.49	
		For Stainless Steel, Add	178.40	
		For >10 To 50, Deduct	-1.14	
		For >50 To 100, Deduct	-3.55	
		For >100, Deduct	-7.10	
03 15 19 00-0061	EA	1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	88.13	
		For Galvanized, Add	29.83	
		For Stainless Steel, Add	208.78	
		For >10 To 50, Deduct	-1.42	
		For >50 To 100, Deduct	-4.34	
		For >100, Deduct	-8.68	
03 15 19 00-0062	EA	1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	97.55	
		For Galvanized, Add	33.79	
		For Stainless Steel, Add	236.50	
		For >10 To 50, Deduct	-1.50	
		For >50 To 100, Deduct	-4.69	
		For >100, Deduct	-9.37	
03 15 19 00-0063	EA	1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	107.93	
		For Galvanized, Add	38.15	
		For Stainless Steel, Add	267.02	
		For >10 To 50, Deduct	-1.58	
		For >50 To 100, Deduct	-5.07	
		For >100, Deduct	-10.14	
03 15 19 00-0064	EA	1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	118.59	
		For Galvanized, Add	41.49	
		For Stainless Steel, Add	290.43	
		For >10 To 50, Deduct	-1.78	
		For >50 To 100, Deduct	-5.64	
		For >100, Deduct	-11.27	
03 15 19 00-0065	EA	1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	129.55	
		For Galvanized, Add	44.43	
		For Stainless Steel, Add	311.01	
		For >10 To 50, Deduct	-2.03	
		For >50 To 100, Deduct	-6.29	
		For >100, Deduct	-12.58	
03 15 19 00-0066	EA	1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	142.59	
		For Galvanized, Add	47.56	
		For Stainless Steel, Add	332.92	
		For >10 To 50, Deduct	-2.37	
		For >50 To 100, Deduct	-7.13	
		For >100, Deduct	-14.25	
03 15 19 00-0067	EA	1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	162.14	
		For Galvanized, Add	52.59	
		For Stainless Steel, Add	368.10	
		For >10 To 50, Deduct	-2.85	
		For >50 To 100, Deduct	-8.33	
		For >100, Deduct	-16.65	
03 15 19 00-0068	EA	1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	86.51	
		For Galvanized, Add	31.87	
		For Stainless Steel, Add	223.06	
		For >10 To 50, Deduct	-1.14	
		For >50 To 100, Deduct	-3.87	
		For >100, Deduct	-7.74	
03 15 19 00-0069	EA	1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	103.07	
		For Galvanized, Add	37.30	
		For Stainless Steel, Add	261.07	
		For >10 To 50, Deduct	-1.42	
		For >50 To 100, Deduct	-4.71	
		For >100, Deduct	-9.43	
03 15 19 00-0070	EA	1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	114.43	
		For Galvanized, Add	42.23	
		For Stainless Steel, Add	295.58	
		For >10 To 50, Deduct	-1.50	
		For >50 To 100, Deduct	-5.11	
		For >100, Deduct	-10.22	
03 15 19 00-0071	EA	1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	126.99	
		For Galvanized, Add	47.68	
		For Stainless Steel, Add	333.73	
		For >10 To 50, Deduct	-1.58	
		For >50 To 100, Deduct	-5.55	
		For >100, Deduct	-11.10	
03 15 19 00-0072	EA	1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	139.36	
		For Galvanized, Add	51.88	
		For Stainless Steel, Add	363.13	
		For >10 To 50, Deduct	-1.78	
		For >50 To 100, Deduct	-6.15	
		For >100, Deduct	-12.31	
03 15 19 00-0073	EA	1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	151.79	
		For Galvanized, Add	55.55	
		For Stainless Steel, Add	388.85	
		For >10 To 50, Deduct	-2.03	
		For >50 To 100, Deduct	-6.85	
		For >100, Deduct	-13.69	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0074	EA	1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	167.34	
		For Galvanized, Add	59.94	
		For Stainless Steel, Add	419.55	
		For >10 To 50, Deduct	-2.37	
		For >50 To 100, Deduct	-7.74	
		For >100, Deduct	-15.49	
03 15 19 00-0075	EA	1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	188.45	
		For Galvanized, Add	65.74	
		For Stainless Steel, Add	460.18	
		For >10 To 50, Deduct	-2.85	
		For >50 To 100, Deduct	-8.98	
		For >100, Deduct	-17.97	
03 15 19 00-0076 1-1/2", 1-3/4", And 2" Diameter (03 15 19 00-0036)				
03 15 19 00-0077	EA	1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	114.24	
		For Galvanized, Add	44.17	
		For Stainless Steel, Add	309.19	
		For >10 To 50, Deduct	-1.30	
		For >50 To 100, Deduct	-4.80	
		For >100, Deduct	-9.60	
03 15 19 00-0078	EA	1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	122.63	
		For Galvanized, Add	46.33	
		For Stainless Steel, Add	324.28	
		For >10 To 50, Deduct	-1.50	
		For >50 To 100, Deduct	-5.31	
		For >100, Deduct	-10.63	
03 15 19 00-0079	EA	1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	135.45	
		For Galvanized, Add	50.97	
		For Stainless Steel, Add	356.79	
		For >10 To 50, Deduct	-1.68	
		For >50 To 100, Deduct	-5.90	
		For >100, Deduct	-11.80	
03 15 19 00-0080	EA	1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	146.99	
		For Galvanized, Add	55.69	
		For Stainless Steel, Add	389.83	
		For >10 To 50, Deduct	-1.78	
		For >50 To 100, Deduct	-6.35	
		For >100, Deduct	-12.69	
03 15 19 00-0081	EA	1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	158.80	
		For Galvanized, Add	60.41	
		For Stainless Steel, Add	422.87	
		For >10 To 50, Deduct	-1.90	
		For >50 To 100, Deduct	-6.82	
		For >100, Deduct	-13.64	
03 15 19 00-0082	EA	1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	173.74	
		For Galvanized, Add	64.96	
		For Stainless Steel, Add	454.72	
		For >10 To 50, Deduct	-2.19	
		For >50 To 100, Deduct	-7.63	
		For >100, Deduct	-15.26	
03 15 19 00-0083	EA	1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	192.33	
		For Galvanized, Add	70.27	
		For Stainless Steel, Add	491.89	
		For >10 To 50, Deduct	-2.59	
		For >50 To 100, Deduct	-8.69	
		For >100, Deduct	-17.39	
03 15 19 00-0084	EA	1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	219.16	
		For Galvanized, Add	77.93	
		For Stainless Steel, Add	545.51	
		For >10 To 50, Deduct	-3.17	
		For >50 To 100, Deduct	-10.23	
		For >100, Deduct	-20.45	
03 15 19 00-0085	EA	1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	161.39	
		For Galvanized, Add	66.46	
		For Stainless Steel, Add	465.19	
		For >10 To 50, Deduct	-1.42	
		For >50 To 100, Deduct	-6.17	
		For >100, Deduct	-12.34	
03 15 19 00-0086	EA	1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	167.44	
		For Galvanized, Add	67.90	
		For Stainless Steel, Add	475.30	
		For >10 To 50, Deduct	-1.58	
		For >50 To 100, Deduct	-6.56	
		For >100, Deduct	-13.12	
03 15 19 00-0087	EA	1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	171.49	
		For Galvanized, Add	68.99	
		For Stainless Steel, Add	482.93	
		For >10 To 50, Deduct	-1.68	
		For >50 To 100, Deduct	-6.80	
		For >100, Deduct	-13.60	



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Accessories	03 15	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0088	EA	1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	194.98	
		For Galvanized, Add	79.69	
		For Stainless Steel, Add	557.80	
		For >10 To 50, Deduct	-1.78	
		For >50 To 100, Deduct	-7.55	
		For >100, Deduct	-15.09	
03 15 19 00-0089	EA	1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	224.66	
		For Galvanized, Add	91.99	
		For Stainless Steel, Add	643.90	
		For >10 To 50, Deduct	-2.03	
		For >50 To 100, Deduct	-8.67	
		For >100, Deduct	-17.34	
03 15 19 00-0090	EA	1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	233.86	
		For Galvanized, Add	93.20	
		For Stainless Steel, Add	652.37	
		For >10 To 50, Deduct	-2.37	
		For >50 To 100, Deduct	-9.41	
		For >100, Deduct	-18.81	
03 15 19 00-0091	EA	1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	258.25	
		For Galvanized, Add	100.64	
		For Stainless Steel, Add	704.48	
		For >10 To 50, Deduct	-2.85	
		For >50 To 100, Deduct	-10.73	
		For >100, Deduct	-21.46	
03 15 19 00-0092	EA	1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	288.00	
		For Galvanized, Add	108.40	
		For Stainless Steel, Add	758.77	
		For >10 To 50, Deduct	-3.56	
		For >50 To 100, Deduct	-12.54	
		For >100, Deduct	-25.08	
03 15 19 00-0093	EA	2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	235.83	
		For Galvanized, Add	101.16	
		For Stainless Steel, Add	708.12	
		For >10 To 50, Deduct	-1.68	
		For >50 To 100, Deduct	-8.41	
		For >100, Deduct	-16.82	
03 15 19 00-0094	EA	2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	256.71	
		For Galvanized, Add	109.37	
		For Stainless Steel, Add	765.56	
		For >10 To 50, Deduct	-1.90	
		For >50 To 100, Deduct	-9.27	
		For >100, Deduct	-18.53	
03 15 19 00-0095	EA	2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	282.23	
		For Galvanized, Add	119.21	
		For Stainless Steel, Add	834.44	
		For >10 To 50, Deduct	-2.19	
		For >50 To 100, Deduct	-10.34	
		For >100, Deduct	-20.68	
03 15 19 00-0096	EA	2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	304.28	
		For Galvanized, Add	126.25	
		For Stainless Steel, Add	883.72	
		For >10 To 50, Deduct	-2.59	
		For >50 To 100, Deduct	-11.49	
		For >100, Deduct	-22.98	
03 15 19 00-0097	EA	2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	328.28	
		For Galvanized, Add	135.66	
		For Stainless Steel, Add	949.59	
		For >10 To 50, Deduct	-2.85	
		For >50 To 100, Deduct	-12.48	
		For >100, Deduct	-24.96	
03 15 19 00-0098	EA	2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	353.01	
		For Galvanized, Add	144.86	
		For Stainless Steel, Add	1,013.99	
		For >10 To 50, Deduct	-3.17	
		For >50 To 100, Deduct	-13.57	
		For >100, Deduct	-27.15	
03 15 19 00-0099	EA	2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	392.53	
		For Galvanized, Add	155.57	
		For Stainless Steel, Add	1,088.99	
		For >10 To 50, Deduct	-4.07	
		For >50 To 100, Deduct	-15.92	
		For >100, Deduct	-31.84	
03 15 19 00-0100	EA	2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	423.45	
		For Galvanized, Add	171.03	
		For Stainless Steel, Add	1,197.21	
		For >10 To 50, Deduct	-4.07	
		For >50 To 100, Deduct	-16.69	
		For >100, Deduct	-33.38	
03 15 19 00-0101	EA	2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	475.17	
		For Galvanized, Add	190.12	
		For Stainless Steel, Add	1,330.81	
		For >10 To 50, Deduct	-4.75	
		For >50 To 100, Deduct	-19.00	
		For >100, Deduct	-38.00	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0102			2-1/2" And 2-3/4" Diameter (03 15 19 00-0036)		
03 15 19 00-0103	EA		2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	483.01	
			For Galvanized, Add	224.75	
			For Stainless Steel, Add	1,573.25	
			For >10 To 50, Deduct	-1.68	
			For >50 To 100, Deduct	-14.59	
			For >100, Deduct	-29.18	
03 15 19 00-0104	EA		2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	507.83	
			For Galvanized, Add	234.93	
			For Stainless Steel, Add	1,644.48	
			For >10 To 50, Deduct	-1.90	
			For >50 To 100, Deduct	-15.54	
			For >100, Deduct	-31.09	
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	553.35	
			For Galvanized, Add	254.77	
			For Stainless Steel, Add	1,783.36	
			For >10 To 50, Deduct	-2.19	
			For >50 To 100, Deduct	-17.12	
			For >100, Deduct	-34.24	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	588.78	
			For Galvanized, Add	268.50	
			For Stainless Steel, Add	1,879.47	
			For >10 To 50, Deduct	-2.59	
			For >50 To 100, Deduct	-18.60	
			For >100, Deduct	-37.21	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	622.74	
			For Galvanized, Add	282.89	
			For Stainless Steel, Add	1,980.20	
			For >10 To 50, Deduct	-2.85	
			For >50 To 100, Deduct	-19.84	
			For >100, Deduct	-39.68	
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	661.31	
			For Galvanized, Add	299.01	
			For Stainless Steel, Add	2,093.04	
			For >10 To 50, Deduct	-3.17	
			For >50 To 100, Deduct	-21.28	
			For >100, Deduct	-42.56	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	712.40	
			For Galvanized, Add	315.51	
			For Stainless Steel, Add	2,208.54	
			For >10 To 50, Deduct	-4.07	
			For >50 To 100, Deduct	-23.91	
			For >100, Deduct	-47.83	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	544.48	
			For Galvanized, Add	254.44	
			For Stainless Steel, Add	1,781.05	
			For >10 To 50, Deduct	-1.78	
			For >50 To 100, Deduct	-16.28	
			For >100, Deduct	-32.57	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	585.03	
			For Galvanized, Add	272.17	
			For Stainless Steel, Add	1,905.19	
			For >10 To 50, Deduct	-2.03	
			For >50 To 100, Deduct	-17.68	
			For >100, Deduct	-35.36	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	627.60	
			For Galvanized, Add	290.07	
			For Stainless Steel, Add	2,030.46	
			For >10 To 50, Deduct	-2.37	
			For >50 To 100, Deduct	-19.25	
			For >100, Deduct	-38.50	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	669.35	
			For Galvanized, Add	306.19	
			For Stainless Steel, Add	2,143.33	
			For >10 To 50, Deduct	-2.85	
			For >50 To 100, Deduct	-21.01	
			For >100, Deduct	-42.01	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	710.91	
			For Galvanized, Add	323.81	
			For Stainless Steel, Add	2,266.64	
			For >10 To 50, Deduct	-3.17	
			For >50 To 100, Deduct	-22.52	
			For >100, Deduct	-45.04	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	768.84	
			For Galvanized, Add	348.82	
			For Stainless Steel, Add	2,441.71	
			For >10 To 50, Deduct	-3.56	
			For >50 To 100, Deduct	-24.56	
			For >100, Deduct	-49.12	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	830.93	
			For Galvanized, Add	368.00	
			For Stainless Steel, Add	2,575.97	
			For >10 To 50, Deduct	-4.75	
			For >50 To 100, Deduct	-27.89	
			For >100, Deduct	-55.79	



	Concrete	03	CS
	Concrete Forming and Accessories	03 10	
	Concrete Accessories	03 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 20 Concrete Reinforcing ⁽⁰³⁾

Note: Includes cutting or torching to size, bending where necessary and tie wires.

03 21 Reinforcement Bars ^(03 20)

Note: Includes cutting, bending, tie wire, tying, bar chairs and all non-mechanical splicing. The weights of reinforcing steel shall be used as follows: #2 (1/8" Diameter) - 0.167 Lb./LF, #3 (3/8" Diameter) - 0.376 Lb./LF, #4 (1/2" Diameter) - 0.668 Lb./LF, #5 (5/8" Diameter) - 1.043 Lb./LF, #6 (3/4" Diameter) - 1.502 Lb./LF, #7 (7/8" Diameter) - 2.044 Lb./LF, #8 (1" Diameter) - 2.670 Lb./LF, #9 (1.128" Diameter) - 3.400 Lb./LF, #10 (1.27" Diameter) - 4.303 Lb./LF, #11 (1.41" Diameter) - 5.313 Lb./LF, #14 (1.693" Diameter) - 7.650 Lb./LF, #18 (2.257" Diameter) - 13.600 Lb./LF.

03 21 11 Plain Steel Reinforcement Bars ^(03 21)

03 21 11 00-0001 Beams And Girders, Steel Reinforcement Bar ^(03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0002	LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.81
	For Up To 100, Add.....	0.54
	For >100 To 200, Add.....	0.29
	For >200 To 500, Add.....	0.12
03 21 11 00-0003	LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.37
	For Up To 100, Add.....	0.93
	For >100 To 200, Add.....	0.50
	For >200 To 500, Add.....	0.20
03 21 11 00-0004	LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.06
	For Up To 100, Add.....	1.42
	For >100 To 200, Add.....	0.77
	For >200 To 500, Add.....	0.31
03 21 11 00-0005	LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.84
	For Up To 100, Add.....	2.00
	For >100 To 200, Add.....	1.07
	For >200 To 500, Add.....	0.43
03 21 11 00-0006	LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.83
	For Up To 100, Add.....	0.56
	For >100 To 200, Add.....	0.30
	For >200 To 500, Add.....	0.12
03 21 11 00-0007	LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.40
	For Up To 100, Add.....	0.96
	For >100 To 200, Add.....	0.52
	For >200 To 500, Add.....	0.21
03 21 11 00-0008	LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	2.11
	For Up To 100, Add.....	1.47
	For >100 To 200, Add.....	0.79
	For >200 To 500, Add.....	0.32
03 21 11 00-0009	LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	2.91
	For Up To 100, Add.....	2.07
	For >100 To 200, Add.....	1.11
	For >200 To 500, Add.....	0.44
03 21 11 00-0010	LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.85
	For Up To 100, Add.....	0.58
	For >100 To 200, Add.....	0.31
	For >200 To 500, Add.....	0.13
03 21 11 00-0011	LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.45
	For Up To 100, Add.....	1.01
	For >100 To 200, Add.....	0.54
	For >200 To 500, Add.....	0.22
03 21 11 00-0012	LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.18
	For Up To 100, Add.....	1.54
	For >100 To 200, Add.....	0.83
	For >200 To 500, Add.....	0.33
03 21 11 00-0013	LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.02
	For Up To 100, Add.....	2.18
	For >100 To 200, Add.....	1.16
	For >200 To 500, Add.....	0.46
03 21 11 00-0014	LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.92
	For Up To 100, Add.....	2.25
	For >100 To 200, Add.....	1.31
	For >200 To 400, Add.....	0.61
03 21 11 00-0015	LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.89
	For Up To 100, Add.....	2.86
	For >100 To 200, Add.....	1.65
	For >200 To 400, Add.....	0.78
03 21 11 00-0016	LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	6.04
	For Up To 100, Add.....	3.58
	For >100 To 200, Add.....	2.06
	For >200 To 400, Add.....	0.97
03 21 11 00-0017	LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	7.39
	For Up To 100, Add.....	3.61
	For >100 To 200, Add.....	1.94
	For >200 To 300, Add.....	0.97
03 21 11 00-0018	LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	8.82
	For Up To 100, Add.....	4.36
	For >100 To 200, Add.....	2.34
	For >200 To 300, Add.....	1.17

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0019 LF #14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	12.24	
For Up To 100, Add	6.14	
For >100 To 200, Add	3.27	
For >200 To 300, Add	1.64	
03 21 11 00-0020 LF #18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	20.97	
For Up To 100, Add	10.68	
For >100 To 200, Add	5.66	
For >200 To 300, Add	2.83	
03 21 11 00-0021 LF #6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.12	
For Up To 100, Add	2.28	
For >100 To 200, Add	1.21	
For >200 To 500, Add	0.48	
03 21 11 00-0022 LF #7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	4.07	
For Up To 100, Add	2.36	
For >100 To 200, Add	1.37	
For >200 To 400, Add	0.64	
03 21 11 00-0023 LF #8, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	5.08	
For Up To 100, Add	3.00	
For >100 To 200, Add	1.73	
For >200 To 400, Add	0.81	
03 21 11 00-0024 LF #9, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	6.28	
For Up To 100, Add	3.76	
For >100 To 200, Add	2.16	
For >200 To 400, Add	1.02	
03 21 11 00-0025 LF #10, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	7.70	
For Up To 100, Add	3.79	
For >100 To 200, Add	2.03	
For >200 To 300, Add	1.02	
03 21 11 00-0026 LF #11, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	9.20	
For Up To 100, Add	4.59	
For >100 To 200, Add	2.45	
For >200 To 300, Add	1.23	
03 21 11 00-0027 LF #14, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	12.79	
For Up To 100, Add	6.47	
For >100 To 200, Add	3.44	
For >200 To 300, Add	1.72	
03 21 11 00-0028 LF #18, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	21.94	
For Up To 100, Add	11.27	
For >100 To 200, Add	5.95	
For >200 To 300, Add	2.97	
03 21 11 00-0029 LF #3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	0.87	
For Up To 100, Add	0.60	
For >100 To 200, Add	0.32	
For >200 To 500, Add	0.13	
03 21 11 00-0030 LF #4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	1.48	
For Up To 100, Add	1.04	
For >100 To 200, Add	0.56	
For >200 To 500, Add	0.22	
03 21 11 00-0031 LF #5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	2.24	
For Up To 100, Add	1.60	
For >100 To 200, Add	0.86	
For >200 To 500, Add	0.34	
03 21 11 00-0032 LF #6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	3.10	
For Up To 100, Add	2.26	
For >100 To 200, Add	1.20	
For >200 To 500, Add	0.48	
03 21 11 00-0033 LF #7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	4.03	
For Up To 100, Add	2.33	
For >100 To 200, Add	1.35	
For >200 To 400, Add	0.63	
03 21 11 00-0034 LF #8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	5.04	
For Up To 100, Add	2.97	
For >100 To 200, Add	1.71	
For >200 To 400, Add	0.81	
03 21 11 00-0035 LF #9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	6.22	
For Up To 100, Add	3.71	
For >100 To 200, Add	2.13	
For >200 To 400, Add	1.01	
03 21 11 00-0036 LF #10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	7.62	
For Up To 100, Add	3.74	
For >100 To 200, Add	2.01	
For >200 To 300, Add	1.01	
03 21 11 00-0037 LF #11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	9.10	
For Up To 100, Add	4.53	
For >100 To 200, Add	2.42	
For >200 To 300, Add	1.21	
03 21 11 00-0038 LF #14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	12.65	
For Up To 100, Add	6.39	
For >100 To 200, Add	3.39	
For >200 To 300, Add	1.70	
03 21 11 00-0039 LF #18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	21.70	
For Up To 100, Add	11.12	
For >100 To 200, Add	5.88	
For >200 To 300, Add	2.94	



Concrete		03	CS
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0040			Columns, Steel Reinforcement Bar (03 21 11) Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0041	LF		#3, Grade 40, Columns, Steel Reinforcement Bar.....	0.85	
			For Up To 100, Add	0.56	
			For >100 To 200, Add	0.30	
			For >200 To 500, Add	0.12	
03 21 11 00-0042	LF		#4, Grade 40, Columns, Steel Reinforcement Bar.....	1.46	
			For Up To 100, Add	0.97	
			For >100 To 200, Add	0.53	
			For >200 To 500, Add	0.21	
03 21 11 00-0043	LF		#5, Grade 40, Columns, Steel Reinforcement Bar.....	2.17	
			For Up To 100, Add	1.47	
			For >100 To 200, Add	0.79	
			For >200 To 500, Add	0.32	
03 21 11 00-0044	LF		#6, Grade 40, Columns, Steel Reinforcement Bar.....	2.98	
			For Up To 100, Add	2.06	
			For >100 To 200, Add	1.11	
			For >200 To 500, Add	0.44	
03 21 11 00-0045	LF		#3, Grade 50, Columns, Steel Reinforcement Bar.....	0.87	
			For Up To 100, Add	0.58	
			For >100 To 200, Add	0.31	
			For >200 To 500, Add	0.13	
03 21 11 00-0046	LF		#4, Grade 50, Columns, Steel Reinforcement Bar.....	1.49	
			For Up To 100, Add	1.00	
			For >100 To 200, Add	0.54	
			For >200 To 500, Add	0.22	
03 21 11 00-0047	LF		#5, Grade 50, Columns, Steel Reinforcement Bar.....	2.22	
			For Up To 100, Add	1.52	
			For >100 To 200, Add	0.82	
			For >200 To 500, Add	0.33	
03 21 11 00-0048	LF		#6, Grade 50, Columns, Steel Reinforcement Bar.....	3.05	
			For Up To 100, Add	2.13	
			For >100 To 200, Add	1.14	
			For >200 To 500, Add	0.46	
03 21 11 00-0049	LF		#3, Grade 60, Columns, Steel Reinforcement Bar.....	0.89	
			For Up To 100, Add	0.60	
			For >100 To 200, Add	0.32	
			For >200 To 500, Add	0.13	
03 21 11 00-0050	LF		#4, Grade 60, Columns, Steel Reinforcement Bar.....	1.54	
			For Up To 100, Add	1.05	
			For >100 To 200, Add	0.57	
			For >200 To 500, Add	0.23	
03 21 11 00-0051	LF		#5, Grade 60, Columns, Steel Reinforcement Bar.....	2.29	
			For Up To 100, Add	1.59	
			For >100 To 200, Add	0.85	
			For >200 To 500, Add	0.34	
03 21 11 00-0052	LF		#6, Grade 60, Columns, Steel Reinforcement Bar.....	3.16	
			For Up To 100, Add	2.24	
			For >100 To 200, Add	1.20	
			For >200 To 500, Add	0.48	
03 21 11 00-0053	LF		#7, Grade 60, Columns, Steel Reinforcement Bar.....	4.09	
			For Up To 100, Add	2.31	
			For >100 To 200, Add	1.35	
			For >200 To 400, Add	0.63	
03 21 11 00-0054	LF		#8, Grade 60, Columns, Steel Reinforcement Bar.....	5.09	
			For Up To 100, Add	2.93	
			For >100 To 200, Add	1.70	
			For >200 To 400, Add	0.80	
03 21 11 00-0055	LF		#9, Grade 60, Columns, Steel Reinforcement Bar.....	6.27	
			For Up To 100, Add	3.66	
			For >100 To 200, Add	2.12	
			For >200 To 400, Add	0.99	
03 21 11 00-0056	LF		#10, Grade 60, Columns, Steel Reinforcement Bar.....	7.66	
			For Up To 100, Add	3.69	
			For >100 To 200, Add	2.00	
			For >200 To 300, Add	1.00	
03 21 11 00-0057	LF		#11, Grade 60, Columns, Steel Reinforcement Bar.....	9.12	
			For Up To 100, Add	4.45	
			For >100 To 200, Add	2.40	
			For >200 To 300, Add	1.20	
03 21 11 00-0058	LF		#14, Grade 60, Columns, Steel Reinforcement Bar.....	12.64	
			For Up To 100, Add	6.26	
			For >100 To 200, Add	3.35	
			For >200 To 300, Add	1.68	
03 21 11 00-0059	LF		#18, Grade 60, Columns, Steel Reinforcement Bar.....	21.59	
			For Up To 100, Add	10.87	
			For >100 To 200, Add	5.78	
			For >200 To 300, Add	2.89	
03 21 11 00-0060	LF		#6, Grade 75, Columns, Steel Reinforcement Bar.....	3.26	
			For Up To 100, Add	2.34	
			For >100 To 200, Add	1.25	
			For >200 To 500, Add	0.50	
03 21 11 00-0061	LF		#7, Grade 75, Columns, Steel Reinforcement Bar.....	4.24	
			For Up To 100, Add	2.42	
			For >100 To 200, Add	1.41	
			For >200 To 400, Add	0.66	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0062	LF	#8, Grade 75, Columns, Steel Reinforcement Bar	.....	5.28	
		For Up To 100, Add		3.07	
		For >100 To 200, Add		1.78	
		For >200 To 400, Add		0.83	
03 21 11 00-0063	LF	#9, Grade 75, Columns, Steel Reinforcement Bar	.....	6.51	
		For Up To 100, Add		3.84	
		For >100 To 200, Add		2.21	
		For >200 To 400, Add		1.04	
03 21 11 00-0064	LF	#10, Grade 75, Columns, Steel Reinforcement Bar	.....	7.97	
		For Up To 100, Add		3.87	
		For >100 To 200, Add		2.09	
		For >200 To 300, Add		1.04	
03 21 11 00-0065	LF	#11, Grade 75, Columns, Steel Reinforcement Bar	.....	9.50	
		For Up To 100, Add		4.68	
		For >100 To 200, Add		2.51	
		For >200 To 300, Add		1.26	
03 21 11 00-0066	LF	#14, Grade 75, Columns, Steel Reinforcement Bar	.....	13.19	
		For Up To 100, Add		6.59	
		For >100 To 200, Add		3.52	
		For >200 To 300, Add		1.76	
03 21 11 00-0067	LF	#18, Grade 75, Columns, Steel Reinforcement Bar	.....	22.56	
		For Up To 100, Add		11.45	
		For >100 To 200, Add		6.07	
		For >200 To 300, Add		3.04	
03 21 11 00-0068	LF	#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	0.91	
		For Up To 100, Add		0.62	
		For >100 To 200, Add		0.33	
		For >200 To 500, Add		0.13	
03 21 11 00-0069	LF	#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	1.57	
		For Up To 100, Add		1.08	
		For >100 To 200, Add		0.58	
		For >200 To 500, Add		0.23	
03 21 11 00-0070	LF	#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	2.35	
		For Up To 100, Add		1.65	
		For >100 To 200, Add		0.88	
		For >200 To 500, Add		0.35	
03 21 11 00-0071	LF	#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	3.24	
		For Up To 100, Add		2.32	
		For >100 To 200, Add		1.24	
		For >200 To 500, Add		0.49	
03 21 11 00-0072	LF	#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	4.20	
		For Up To 100, Add		2.39	
		For >100 To 200, Add		1.40	
		For >200 To 400, Add		0.65	
03 21 11 00-0073	LF	#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	5.24	
		For Up To 100, Add		3.04	
		For >100 To 200, Add		1.76	
		For >200 To 400, Add		0.83	
03 21 11 00-0074	LF	#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	6.45	
		For Up To 100, Add		3.79	
		For >100 To 200, Add		2.19	
		For >200 To 400, Add		1.03	
03 21 11 00-0075	LF	#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	7.89	
		For Up To 100, Add		3.83	
		For >100 To 200, Add		2.06	
		For >200 To 300, Add		1.03	
03 21 11 00-0076	LF	#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	9.40	
		For Up To 100, Add		4.62	
		For >100 To 200, Add		2.48	
		For >200 To 300, Add		1.24	
03 21 11 00-0077	LF	#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	13.05	
		For Up To 100, Add		6.51	
		For >100 To 200, Add		3.47	
		For >200 To 300, Add		1.74	
03 21 11 00-0078	LF	#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	22.32	
		For Up To 100, Add		11.31	
		For >100 To 200, Add		6.00	
		For >200 To 300, Add		3.00	
03 21 11 00-0079		Footings, Steel Reinforcement Bar (03 21 11)			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar	.....	0.74	
		For Up To 100, Add		0.51	
		For >100 To 200, Add		0.28	
		For >200 To 500, Add		0.11	
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar	.....	1.26	
		For Up To 100, Add		0.89	
		For >100 To 200, Add		0.48	
		For >200 To 500, Add		0.19	
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar	.....	1.91	
		For Up To 100, Add		1.36	
		For >100 To 200, Add		0.73	
		For >200 To 500, Add		0.29	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar		2.63	
		For Up To 100, Add		1.92	
		For >100 To 200, Add		1.02	
		For >200 To 500, Add		0.41	
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar	.....	0.76	
		For Up To 100, Add		0.53	
		For >100 To 200, Add		0.29	
		For >200 To 500, Add		0.11	
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar	.....	1.29	
		For Up To 100, Add		0.92	
		For >100 To 200, Add		0.49	
		For >200 To 500, Add		0.20	
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar	.....	1.96	
		For Up To 100, Add		1.41	
		For >100 To 200, Add		0.75	
		For >200 To 500, Add		0.30	
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar	.....	2.70	
		For Up To 100, Add		1.99	
		For >100 To 200, Add		1.05	
		For >200 To 500, Add		0.42	
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar	.....	0.78	
		For Up To 100, Add		0.55	
		For >100 To 200, Add		0.30	
		For >200 To 500, Add		0.12	
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar	.....	1.34	
		For Up To 100, Add		0.97	
		For >100 To 200, Add		0.52	
		For >200 To 500, Add		0.21	
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar	.....	2.03	
		For Up To 100, Add		1.48	
		For >100 To 200, Add		0.79	
		For >200 To 500, Add		0.32	
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar	.....	2.81	
		For Up To 100, Add		2.10	
		For >100 To 200, Add		1.11	
		For >200 To 500, Add		0.44	
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar	.....	3.67	
		For Up To 100, Add		2.16	
		For >100 To 200, Add		1.25	
		For >200 To 400, Add		0.59	
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar	.....	4.59	
		For Up To 100, Add		2.75	
		For >100 To 200, Add		1.58	
		For >200 To 400, Add		0.75	
03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar	.....	5.67	
		For Up To 100, Add		3.45	
		For >100 To 200, Add		1.97	
		For >200 To 400, Add		0.93	
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar	.....	6.96	
		For Up To 100, Add		4.29	
		For >100 To 200, Add		2.43	
		For >200 To 400, Add		1.16	
		For Up To 100, Add		3.48	
		For >100 To 200, Add		1.86	
		For >200 To 300, Add		0.93	
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar	.....	8.35	
		For Up To 100, Add		5.21	
		For >100 To 200, Add		2.95	
		For >200 To 400, Add		1.41	
		For Up To 100, Add		4.22	
		For >100 To 200, Add		2.24	
		For >200 To 300, Add		1.12	
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar	.....	11.64	
		For Up To 100, Add		7.37	
		For >100 To 200, Add		4.14	
		For >200 To 400, Add		1.99	
		For Up To 100, Add		5.96	
		For >100 To 200, Add		3.15	
		For >200 To 300, Add		1.58	
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar	.....	20.01	
		For Up To 100, Add		12.86	
		For >100 To 200, Add		7.20	
		For >200 To 400, Add		3.47	
		For Up To 100, Add		10.40	
		For >100 To 200, Add		5.47	
		For >200 To 300, Add		2.73	
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar	.....	2.91	
		For Up To 100, Add		2.20	
		For >100 To 200, Add		1.16	
		For >200 To 500, Add		0.46	
		For Up To 100, Add		1.71	
		For >100 To 200, Add		0.99	
		For >200 To 400, Add		0.46	
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar	.....	3.82	
		For Up To 100, Add		2.28	
		For >100 To 200, Add		1.31	
		For >200 To 400, Add		0.62	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar	.....	4.78	
		For Up To 100, Add		2.90	
		For >100 To 200, Add		1.65	
		For >200 To 400, Add		0.78	
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar	.....	5.91	
		For Up To 100, Add		3.63	
		For >100 To 200, Add		2.06	
		For >200 To 400, Add		0.98	
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar	.....	7.27	
		For Up To 100, Add		3.66	
		For >100 To 200, Add		1.95	
		For >200 To 300, Add		0.97	
03 21 11 00-0104	LF	#11, Grade 75, Footings, Steel Reinforcement Bar	.....	8.73	
		For Up To 100, Add		4.45	
		For >100 To 200, Add		2.36	
		For >200 To 300, Add		1.18	
03 21 11 00-0105	LF	#14, Grade 75, Footings, Steel Reinforcement Bar	.....	12.19	
		For Up To 100, Add		6.29	
		For >100 To 200, Add		3.32	
		For >200 To 300, Add		1.66	
03 21 11 00-0106	LF	#18, Grade 75, Footings, Steel Reinforcement Bar	.....	20.98	
		For Up To 100, Add		10.98	
		For >100 To 200, Add		5.76	
		For >200 To 300, Add		2.88	
03 21 11 00-0107	LF	#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	0.80	
		For Up To 100, Add		0.57	
		For >100 To 200, Add		0.31	
		For >200 To 500, Add		0.12	
03 21 11 00-0108	LF	#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	1.37	
		For Up To 100, Add		1.00	
		For >100 To 200, Add		0.53	
		For >200 To 500, Add		0.21	
03 21 11 00-0109	LF	#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	2.09	
		For Up To 100, Add		1.54	
		For >100 To 200, Add		0.82	
		For >200 To 500, Add		0.33	
03 21 11 00-0110	LF	#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	2.89	
		For Up To 100, Add		2.18	
		For >100 To 200, Add		1.15	
		For >200 To 500, Add		0.46	
03 21 11 00-0111	LF	#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	3.78	
		For Up To 100, Add		2.25	
		For >100 To 200, Add		1.29	
		For >200 To 400, Add		0.61	
03 21 11 00-0112	LF	#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	4.74	
		For Up To 100, Add		2.87	
		For >100 To 200, Add		1.64	
		For >200 To 400, Add		0.78	
03 21 11 00-0113	LF	#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	5.85	
		For Up To 100, Add		3.58	
		For >100 To 200, Add		2.04	
		For >200 To 400, Add		0.97	
03 21 11 00-0114	LF	#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	7.19	
		For Up To 100, Add		3.62	
		For >100 To 200, Add		1.92	
		For >200 To 300, Add		0.96	
03 21 11 00-0115	LF	#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	8.63	
		For Up To 100, Add		4.39	
		For >100 To 200, Add		2.33	
		For >200 To 300, Add		1.16	
03 21 11 00-0116	LF	#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	12.05	
		For Up To 100, Add		6.21	
		For >100 To 200, Add		3.27	
		For >200 To 300, Add		1.64	
03 21 11 00-0117	LF	#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	20.74	
		For Up To 100, Add		10.83	
		For >100 To 200, Add		5.69	
		For >200 To 300, Add		2.84	
03 21 11 00-0118		Slab On Grade, Steel Reinforcement Bar (03 21 11)			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0119	LF	#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	.....	0.72	
		For Up To 100, Add		0.50	
		For >100 To 200, Add		0.27	
		For >200 To 500, Add		0.11	
03 21 11 00-0120	LF	#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	.....	1.23	
		For Up To 100, Add		0.88	
		For >100 To 200, Add		0.47	
		For >200 To 500, Add		0.19	
03 21 11 00-0121	LF	#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	.....	1.85	
		For Up To 100, Add		1.34	
		For >100 To 200, Add		0.71	
		For >200 To 500, Add		0.29	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0122	LF	#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	.....	2.56	
		For Up To 100, Add	.....	1.89	
		For >100 To 200, Add	.....	1.00	
		For >200 To 500, Add	.....	0.40	
03 21 11 00-0123	LF	#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	.....	0.74	
		For Up To 100, Add	.....	0.52	
		For >100 To 200, Add	.....	0.28	
		For >200 To 500, Add	.....	0.11	
03 21 11 00-0124	LF	#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	.....	1.26	
		For Up To 100, Add	.....	0.91	
		For >100 To 200, Add	.....	0.48	
		For >200 To 500, Add	.....	0.19	
03 21 11 00-0125	LF	#5, Grade 50, Slab On Grade, Steel Reinforcement Bar	.....	1.90	
		For Up To 100, Add	.....	1.39	
		For >100 To 200, Add	.....	0.74	
		For >200 To 500, Add	.....	0.30	
03 21 11 00-0126	LF	#6, Grade 50, Slab On Grade, Steel Reinforcement Bar	.....	2.63	
		For Up To 100, Add	.....	1.96	
		For >100 To 200, Add	.....	1.04	
		For >200 To 500, Add	.....	0.41	
03 21 11 00-0127	LF	#3, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	0.76	
		For Up To 100, Add	.....	0.54	
		For >100 To 200, Add	.....	0.29	
		For >200 To 500, Add	.....	0.12	
03 21 11 00-0128	LF	#4, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	1.31	
		For Up To 100, Add	.....	0.96	
		For >100 To 200, Add	.....	0.51	
		For >200 To 500, Add	.....	0.20	
03 21 11 00-0129	LF	#5, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	1.97	
		For Up To 100, Add	.....	1.46	
		For >100 To 200, Add	.....	0.77	
		For >200 To 500, Add	.....	0.31	
03 21 11 00-0130	LF	#6, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	2.74	
		For Up To 100, Add	.....	2.07	
		For >100 To 200, Add	.....	1.09	
		For >200 To 500, Add	.....	0.44	
03 21 11 00-0131	LF	#7, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	3.59	
		For Up To 100, Add	.....	2.14	
		For >100 To 200, Add	.....	1.23	
		For >200 To 400, Add	.....	0.58	
03 21 11 00-0132	LF	#8, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	4.49	
		For Up To 100, Add	.....	2.72	
		For >100 To 200, Add	.....	1.55	
		For >200 To 400, Add	.....	0.74	
03 21 11 00-0133	LF	#9, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	5.55	
		For Up To 100, Add	.....	3.41	
		For >100 To 200, Add	.....	1.94	
		For >200 To 400, Add	.....	0.92	
03 21 11 00-0134	LF	#10, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	6.83	
		For Up To 100, Add	.....	3.44	
		For >100 To 200, Add	.....	1.83	
		For >200 To 300, Add	.....	0.91	
03 21 11 00-0135	LF	#11, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	8.20	
		For Up To 100, Add	.....	4.18	
		For >100 To 200, Add	.....	2.21	
		For >200 To 300, Add	.....	1.11	
03 21 11 00-0136	LF	#14, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	11.43	
		For Up To 100, Add	.....	5.90	
		For >100 To 200, Add	.....	3.11	
		For >200 To 300, Add	.....	1.55	
03 21 11 00-0137	LF	#18, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	19.70	
		For Up To 100, Add	.....	10.30	
		For >100 To 200, Add	.....	5.40	
		For >200 To 300, Add	.....	2.70	
03 21 11 00-0138	LF	#6, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	2.84	
		For Up To 100, Add	.....	2.17	
		For >100 To 200, Add	.....	1.14	
		For >200 To 500, Add	.....	0.46	
03 21 11 00-0139	LF	#7, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	3.74	
		For Up To 100, Add	.....	2.25	
		For >100 To 200, Add	.....	1.29	
		For >200 To 400, Add	.....	0.61	
03 21 11 00-0140	LF	#8, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	4.68	
		For Up To 100, Add	.....	2.86	
		For >100 To 200, Add	.....	1.63	
		For >200 To 400, Add	.....	0.77	
03 21 11 00-0141	LF	#9, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	5.79	
		For Up To 100, Add	.....	3.59	
		For >100 To 200, Add	.....	2.03	
		For >200 To 400, Add	.....	0.97	
03 21 11 00-0142	LF	#10, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	7.14	
		For Up To 100, Add	.....	3.62	
		For >100 To 200, Add	.....	1.92	
		For >200 To 300, Add	.....	0.96	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0143	LF		#11, Grade 75, Slab On Grade, Steel Reinforcement Bar	8.58	
			For Up To 100, Add	4.40	
			For >100 To 200, Add	2.33	
			For >200 To 300, Add	1.16	
03 21 11 00-0144	LF		#14, Grade 75, Slab On Grade, Steel Reinforcement Bar	11.98	
			For Up To 100, Add	6.23	
			For >100 To 200, Add	3.27	
			For >200 To 300, Add	1.64	
03 21 11 00-0145	LF		#18, Grade 75, Slab On Grade, Steel Reinforcement Bar	20.67	
			For Up To 100, Add	10.88	
			For >100 To 200, Add	5.70	
			For >200 To 300, Add	2.85	
03 21 11 00-0146	LF		#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.78	
			For Up To 100, Add	0.56	
			For >100 To 200, Add	0.30	
			For >200 To 500, Add	0.12	
03 21 11 00-0147	LF		#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.34	
			For Up To 100, Add	0.99	
			For >100 To 200, Add	0.52	
			For >200 To 500, Add	0.21	
03 21 11 00-0148	LF		#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.03	
			For Up To 100, Add	1.52	
			For >100 To 200, Add	0.80	
			For >200 To 500, Add	0.32	
03 21 11 00-0149	LF		#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.82	
			For Up To 100, Add	2.15	
			For >100 To 200, Add	1.13	
			For >200 To 500, Add	0.45	
03 21 11 00-0150	LF		#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.70	
			For Up To 100, Add	2.22	
			For >100 To 200, Add	1.27	
			For >200 To 400, Add	0.60	
03 21 11 00-0151	LF		#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.64	
			For Up To 100, Add	2.83	
			For >100 To 200, Add	1.61	
			For >200 To 400, Add	0.77	
03 21 11 00-0152	LF		#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	5.73	
			For Up To 100, Add	3.54	
			For >100 To 200, Add	2.01	
			For >200 To 400, Add	0.96	
03 21 11 00-0153	LF		#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	7.06	
			For Up To 100, Add	3.58	
			For >100 To 200, Add	1.90	
			For >200 To 300, Add	0.95	
03 21 11 00-0154	LF		#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	8.48	
			For Up To 100, Add	4.34	
			For >100 To 200, Add	2.30	
			For >200 To 300, Add	1.15	
03 21 11 00-0155	LF		#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	11.84	
			For Up To 100, Add	6.14	
			For >100 To 200, Add	3.23	
			For >200 To 300, Add	1.62	
03 21 11 00-0156	LF		#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	20.43	
			For Up To 100, Add	10.74	
			For >100 To 200, Add	5.62	
			For >200 To 300, Add	2.81	
03 21 11 00-0157			Elevated Slabs, Steel Reinforcement Bar (03 21 11) Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0158	LF		#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.67	
			For Up To 100, Add	0.48	
			For >100 To 200, Add	0.26	
			For >200 To 500, Add	0.10	
03 21 11 00-0159	LF		#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.15	
			For Up To 100, Add	0.84	
			For >100 To 200, Add	0.45	
			For >200 To 500, Add	0.18	
03 21 11 00-0160	LF		#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.74	
			For Up To 100, Add	1.30	
			For >100 To 200, Add	0.69	
			For >200 To 500, Add	0.27	
03 21 11 00-0161	LF		#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	2.42	
			For Up To 100, Add	1.83	
			For >100 To 200, Add	0.97	
			For >200 To 500, Add	0.39	
03 21 11 00-0162	LF		#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.69	
			For Up To 100, Add	0.50	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21 11 00-0163	LF		#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.18	
			For Up To 100, Add	0.87	
			For >100 To 200, Add	0.46	
			For >200 To 500, Add	0.19	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0164 LF #5, Grade 50, Elevated Slabs, Steel Reinforcement Bar 1.79 For Up To 100, Add 1.35 For >100 To 200, Add 0.71 For >200 To 500, Add 0.28		
03 21 11 00-0165 LF #6, Grade 50, Elevated Slabs, Steel Reinforcement Bar 2.49 For Up To 100, Add 1.90 For >100 To 200, Add 1.00 For >200 To 500, Add 0.40		
03 21 11 00-0166 LF #3, Grade 60, Elevated Slabs, Steel Reinforcement Bar 0.71 For Up To 100, Add 0.52 For >100 To 200, Add 0.28 For >200 To 500, Add 0.11		
03 21 11 00-0167 LF #4, Grade 60, Elevated Slabs, Steel Reinforcement Bar 1.23 For Up To 100, Add 0.92 For >100 To 200, Add 0.49 For >200 To 500, Add 0.20		
03 21 11 00-0168 LF #5, Grade 60, Elevated Slabs, Steel Reinforcement Bar 1.86 For Up To 100, Add 1.42 For >100 To 200, Add 0.75 For >200 To 500, Add 0.30		
03 21 11 00-0169 LF #6, Grade 60, Elevated Slabs, Steel Reinforcement Bar 2.60 For Up To 100, Add 2.01 For >100 To 200, Add 1.06 For >200 To 500, Add 0.42		
03 21 11 00-0170 LF #7, Grade 60, Elevated Slabs, Steel Reinforcement Bar 3.41 For Up To 100, Add 2.07 For >100 To 200, Add 1.18 For >200 To 400, Add 0.56		
03 21 11 00-0171 LF #8, Grade 60, Elevated Slabs, Steel Reinforcement Bar 4.28 For Up To 100, Add 2.65 For >100 To 200, Add 1.50 For >200 To 400, Add 0.72		
03 21 11 00-0172 LF #9, Grade 60, Elevated Slabs, Steel Reinforcement Bar 5.32 For Up To 100, Add 3.33 For >100 To 200, Add 1.88 For >200 To 400, Add 0.90		
03 21 11 00-0173 LF #10, Grade 60, Elevated Slabs, Steel Reinforcement Bar 6.56 For Up To 100, Add 3.36 For >100 To 200, Add 1.78 For >200 To 300, Add 0.89		
03 21 11 00-0174 LF #11, Grade 60, Elevated Slabs, Steel Reinforcement Bar 7.88 For Up To 100, Add 4.08 For >100 To 200, Add 2.15 For >200 To 300, Add 1.07		
03 21 11 00-0175 LF #14, Grade 60, Elevated Slabs, Steel Reinforcement Bar 11.04 For Up To 100, Add 5.78 For >100 To 200, Add 3.03 For >200 To 300, Add 1.52		
03 21 11 00-0176 LF #18, Grade 60, Elevated Slabs, Steel Reinforcement Bar 19.07 For Up To 100, Add 10.11 For >100 To 200, Add 5.28 For >200 To 300, Add 2.64		
03 21 11 00-0177 LF #6, Grade 75, Elevated Slabs, Steel Reinforcement Bar 2.70 For Up To 100, Add 2.11 For >100 To 200, Add 1.11 For >200 To 500, Add 0.44		
03 21 11 00-0178 LF #7, Grade 75, Elevated Slabs, Steel Reinforcement Bar 3.56 For Up To 100, Add 2.19 For >100 To 200, Add 1.24 For >200 To 400, Add 0.59		
03 21 11 00-0179 LF #8, Grade 75, Elevated Slabs, Steel Reinforcement Bar 4.47 For Up To 100, Add 2.79 For >100 To 200, Add 1.58 For >200 To 400, Add 0.75		
03 21 11 00-0180 LF #9, Grade 75, Elevated Slabs, Steel Reinforcement Bar 5.56 For Up To 100, Add 3.51 For >100 To 200, Add 1.98 For >200 To 400, Add 0.95		
03 21 11 00-0181 LF #10, Grade 75, Elevated Slabs, Steel Reinforcement Bar 6.87 For Up To 100, Add 3.54 For >100 To 200, Add 1.87 For >200 To 300, Add 0.93		
03 21 11 00-0182 LF #11, Grade 75, Elevated Slabs, Steel Reinforcement Bar 8.26 For Up To 100, Add 4.31 For >100 To 200, Add 2.26 For >200 To 300, Add 1.13		
03 21 11 00-0183 LF #14, Grade 75, Elevated Slabs, Steel Reinforcement Bar 11.59 For Up To 100, Add 6.11 For >100 To 200, Add 3.20 For >200 To 300, Add 1.60		
03 21 11 00-0184 LF #18, Grade 75, Elevated Slabs, Steel Reinforcement Bar 20.04 For Up To 100, Add 10.70 For >100 To 200, Add 5.57 For >200 To 300, Add 2.78		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	0.73	
		For Up To 100, Add		0.54	
		For >100 To 200, Add		0.29	
		For >200 To 500, Add		0.12	
03 21 11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	1.26	
		For Up To 100, Add		0.95	
		For >100 To 200, Add		0.50	
		For >200 To 500, Add		0.20	
03 21 11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	1.92	
		For Up To 100, Add		1.48	
		For >100 To 200, Add		0.78	
		For >200 To 500, Add		0.31	
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	2.68	
		For Up To 100, Add		2.09	
		For >100 To 200, Add		1.10	
		For >200 To 500, Add		0.44	
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	3.52	
		For Up To 100, Add		2.16	
		For >100 To 200, Add		1.23	
		For >200 To 400, Add		0.58	
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	4.43	
		For Up To 100, Add		2.76	
		For >100 To 200, Add		1.56	
		For >200 To 400, Add		0.75	
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	5.50	
		For Up To 100, Add		3.46	
		For >100 To 200, Add		1.95	
		For >200 To 400, Add		0.93	
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	6.79	
		For Up To 100, Add		3.50	
		For >100 To 200, Add		1.84	
		For >200 To 300, Add		0.92	
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	8.16	
		For Up To 100, Add		4.25	
		For >100 To 200, Add		2.23	
		For >200 To 300, Add		1.12	
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	11.45	
		For Up To 100, Add		6.03	
		For >100 To 200, Add		3.15	
		For >200 To 300, Add		1.58	
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	19.80	
		For Up To 100, Add		10.55	
		For >100 To 200, Add		5.50	
		For >200 To 300, Add		2.75	
03 21 11 00-0196		Walls, Steel Reinforcement Bar (03 21 11)			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar	.....	0.65	
		For Up To 100, Add		0.48	
		For >100 To 200, Add		0.25	
		For >200 To 500, Add		0.10	
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar	.....	1.11	
		For Up To 100, Add		0.83	
		For >100 To 200, Add		0.44	
		For >200 To 500, Add		0.18	
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar	.....	1.68	
		For Up To 100, Add		1.27	
		For >100 To 200, Add		0.67	
		For >200 To 500, Add		0.27	
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar	.....	2.35	
		For Up To 100, Add		1.80	
		For >100 To 200, Add		0.95	
		For >200 To 500, Add		0.38	
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar	.....	0.67	
		For Up To 100, Add		0.50	
		For >100 To 200, Add		0.26	
		For >200 To 500, Add		0.11	
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar	.....	1.14	
		For Up To 100, Add		0.86	
		For >100 To 200, Add		0.45	
		For >200 To 500, Add		0.18	
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar	.....	1.73	
		For Up To 100, Add		1.32	
		For >100 To 200, Add		0.70	
		For >200 To 500, Add		0.28	
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar	.....	2.42	
		For Up To 100, Add		1.87	
		For >100 To 200, Add		0.98	
		For >200 To 500, Add		0.39	
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar	.....	0.69	
		For Up To 100, Add		0.52	
		For >100 To 200, Add		0.27	
		For >200 To 500, Add		0.11	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar	.....	1.19	
		For Up To 100, Add		0.91	
		For >100 To 200, Add		0.48	
		For >200 To 500, Add		0.19	
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar	.....	1.80	
		For Up To 100, Add		1.39	
		For >100 To 200, Add		0.73	
		For >200 To 500, Add		0.29	
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar	.....	2.53	
		For Up To 100, Add		1.98	
		For >100 To 200, Add		1.04	
		For >200 To 500, Add		0.42	
03 21 11 00-0209	LF	#7, Grade 60, Walls, Steel Reinforcement Bar	.....	3.32	
		For Up To 100, Add		2.04	
		For >100 To 200, Add		1.16	
		For >200 To 400, Add		0.55	
03 21 11 00-0210	LF	#8, Grade 60, Walls, Steel Reinforcement Bar	.....	4.19	
		For Up To 100, Add		2.61	
		For >100 To 200, Add		1.48	
		For >200 To 400, Add		0.71	
03 21 11 00-0211	LF	#9, Grade 60, Walls, Steel Reinforcement Bar	.....	5.21	
		For Up To 100, Add		3.29	
		For >100 To 200, Add		1.85	
		For >200 To 400, Add		0.89	
03 21 11 00-0212	LF	#10, Grade 60, Walls, Steel Reinforcement Bar	.....	6.42	
		For Up To 100, Add		3.32	
		For >100 To 200, Add		1.75	
		For >200 To 300, Add		0.87	
03 21 11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar	.....	7.73	
		For Up To 100, Add		4.04	
		For >100 To 200, Add		2.12	
		For >200 To 300, Add		1.06	
03 21 11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar	.....	10.84	
		For Up To 100, Add		5.72	
		For >100 To 200, Add		2.99	
		For >200 To 300, Add		1.50	
03 21 11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar	.....	18.76	
		For Up To 100, Add		10.02	
		For >100 To 200, Add		5.22	
		For >200 To 300, Add		2.61	
03 21 11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar	.....	2.63	
		For Up To 100, Add		2.08	
		For >100 To 200, Add		1.09	
		For >200 To 500, Add		0.44	
03 21 11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar	.....	3.47	
		For Up To 100, Add		2.15	
		For >100 To 200, Add		1.22	
		For >200 To 400, Add		0.58	
03 21 11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar	.....	4.38	
		For Up To 100, Add		2.76	
		For >100 To 200, Add		1.55	
		For >200 To 400, Add		0.74	
03 21 11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar	.....	5.45	
		For Up To 100, Add		3.47	
		For >100 To 200, Add		1.95	
		For >200 To 400, Add		0.94	
03 21 11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar	.....	6.73	
		For Up To 100, Add		3.50	
		For >100 To 200, Add		1.84	
		For >200 To 300, Add		0.92	
03 21 11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar	.....	8.11	
		For Up To 100, Add		4.26	
		For >100 To 200, Add		2.23	
		For >200 To 300, Add		1.12	
03 21 11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar	.....	11.39	
		For Up To 100, Add		6.05	
		For >100 To 200, Add		3.16	
		For >200 To 300, Add		1.58	
03 21 11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar	.....	19.73	
		For Up To 100, Add		10.60	
		For >100 To 200, Add		5.51	
		For >200 To 300, Add		2.75	
03 21 11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	0.71	
		For Up To 100, Add		0.54	
		For >100 To 200, Add		0.28	
		For >200 To 500, Add		0.11	
03 21 11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	1.22	
		For Up To 100, Add		0.94	
		For >100 To 200, Add		0.49	
		For >200 To 500, Add		0.20	
03 21 11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	1.86	
		For Up To 100, Add		1.45	
		For >100 To 200, Add		0.76	
		For >200 To 500, Add		0.30	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	2.61	
		For Up To 100, Add		2.06	
		For >100 To 200, Add		1.08	
		For >200 To 500, Add		0.43	
03 21 11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	3.43	
		For Up To 100, Add		2.12	
		For >100 To 200, Add		1.20	
		For >200 To 400, Add		0.57	
03 21 11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	4.34	
		For Up To 100, Add		2.73	
		For >100 To 200, Add		1.54	
		For >200 To 400, Add		0.74	
03 21 11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	5.39	
		For Up To 100, Add		3.42	
		For >100 To 200, Add		1.92	
		For >200 To 400, Add		0.92	
03 21 11 00-0231	LF	#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	6.65	
		For Up To 100, Add		3.45	
		For >100 To 200, Add		1.82	
		For >200 To 300, Add		0.91	
03 21 11 00-0232	LF	#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	8.01	
		For Up To 100, Add		4.20	
		For >100 To 200, Add		2.20	
		For >200 To 300, Add		1.10	
03 21 11 00-0233	LF	#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	11.25	
		For Up To 100, Add		5.97	
		For >100 To 200, Add		3.11	
		For >200 To 300, Add		1.56	
03 21 11 00-0234	LF	#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	19.49	
		For Up To 100, Add		10.46	
		For >100 To 200, Add		5.44	
		For >200 To 300, Add		2.72	
03 21 11 00-0235		Mechanical Joint Connection (03 21 11)			
03 21 11 00-0236		Thermal Type Mechanical Joint Connection (03 21 11 00-0235)			
03 21 11 00-0237	EA	Thermal Type Mechanical Joint Connection, Add Per Splice	.....	278.12	
03 21 11 00-0238		Screwed Type Mechanical Joint Connection (03 21 11 00-0235)			
03 21 11 00-0239	EA	Screwed Type Mechanical Joint Connection, Add Per Splice	.....	151.34	
03 21 11 00-0240		Deformed Straight Dowels (03 21 11)			
		Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.			
03 21 11 00-0241	EA	3/8" Diameter x 24" Long, Deformed Straight Dowel	.....	3.66	
		For Up To 12" Length, Deduct		-0.46	
		For >12" To <24" Length, Deduct		-0.23	
03 21 11 00-0242	EA	1/2" Diameter x 24" Long, Deformed Straight Dowel	.....	4.37	
		For Up To 12" Length, Deduct		-0.60	
		For >12" To <24" Length, Deduct		-0.30	
03 21 11 00-0243	EA	5/8" Diameter x 24" Long, Deformed Straight Dowel	.....	5.39	
		For Up To 12" Length, Deduct		-0.95	
		For >12" To <24" Length, Deduct		-0.48	
03 21 11 00-0244	EA	3/4" Diameter x 24" Long, Deformed Straight Dowel	.....	6.63	
		For Up To 12" Length, Deduct		-1.38	
		For >12" To <24" Length, Deduct		-0.69	
03 21 11 00-0245	EA	7/8" Diameter x 24" Long, Deformed Straight Dowel	.....	7.88	
		For Up To 12" Length, Deduct		-1.92	
		For >12" To <24" Length, Deduct		-0.96	
03 21 11 00-0246	EA	1" Diameter x 24" Long, Deformed Straight Dowel	.....	9.96	
		For Up To 12" Length, Deduct		-2.46	
		For >12" To <24" Length, Deduct		-1.23	
03 21 11 00-0247	EA	1-1/8" Diameter x 24" Long, Deformed Straight Dowel	.....	11.76	
		For Up To 12" Length, Deduct		-3.03	
		For >12" To <24" Length, Deduct		-1.51	
03 21 11 00-0248	EA	1-1/4" Diameter x 24" Long, Deformed Straight Dowel	.....	14.48	
		For Up To 12" Length, Deduct		-3.96	
		For >12" To <24" Length, Deduct		-1.98	
03 21 11 00-0249	EA	1-3/8" Diameter x 24" Long, Deformed Straight Dowel	.....	17.23	
		For Up To 12" Length, Deduct		-4.89	
		For >12" To <24" Length, Deduct		-2.44	
03 21 11 00-0250		Spirals, Reinforcing Steel (03 21 11)			
03 21 11 00-0251	TON	Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	.....	3,608.31	
		For Grade 75, Add		127.56	
03 21 11 00-0252	TON	>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel	.....	3,562.54	
		For Grade 75, Add		127.56	
03 21 11 00-0253	TON	>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel	.....	3,527.63	
		For Grade 75, Add		127.56	
03 21 11 00-0254	TON	>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel	.....	3,470.51	
		For Grade 75, Add		127.56	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0255 TON >48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,393.29 127.56	
03 21 11 00-0256 TON >64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,358.73 130.70	
03 21 11 00-0257 TON >84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,294.08 130.70	
03 21 11 00-0258 Accessories For Reinforcing Steel (03 21 11)		
03 21 11 00-0259 Reinforcing Steel Lap-Weld Splice (03 21 11 00-0258)		
03 21 11 00-0260 EA Up To #6 Reinforcing Steel Lap-Weld Splice.....	70.96	
03 21 11 00-0261 EA >#6 Reinforcing Steel Lap-Weld Splice	113.85	
03 21 11 00-0262 Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0258)		
03 21 11 00-0262 EA Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	38.35	
03 21 11 00-0264 EA #5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	59.71	
03 21 11 00-0265 EA #6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	90.29	
03 21 13 Galvanized Reinforcement Steel Bars (03 21)		
03 21 13 00-0001 Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0002 LF #3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	0.99 0.72 0.38 0.15	
03 21 13 00-0003 LF #4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	1.70 1.26 0.67 0.27	
03 21 13 00-0004 LF #5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	2.57 1.93 1.02 0.41	
03 21 13 00-0005 LF #6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	3.57 2.73 1.44 0.57	
03 21 13 00-0006 LF #3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	1.01 0.74 0.39 0.16	
03 21 13 00-0007 LF #4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	1.73 1.29 0.68 0.27	
03 21 13 00-0008 LF #5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	2.62 1.98 1.05 0.42	
03 21 13 00-0009 LF #6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	3.64 2.80 1.47 0.59	
03 21 13 00-0010 LF #3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	1.04 0.77 0.41 0.16	
03 21 13 00-0011 LF #4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	1.78 1.34 0.71 0.28	
03 21 13 00-0012 LF #5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	2.69 2.05 1.08 0.43	
03 21 13 00-0013 LF #6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 500, Add	3.75 2.91 1.53 0.61	
03 21 13 00-0014 LF #7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 400, Add	4.92 3.00 1.71 0.81	
03 21 13 00-0015 LF #8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 400, Add	6.20 3.84 2.18 1.04	
03 21 13 00-0016 LF #9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar..... For Up To 100, Add For >100 To 200, Add For >200 To 400, Add	7.70 4.82 2.72 1.30	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0017	LF	#10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	9.50	
		For Up To 100, Add	4.87	
		For >100 To 200, Add	2.57	
		For >200 To 300, Add	1.29	
03 21 13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	11.42	
		For Up To 100, Add	5.92	
		For >100 To 200, Add	3.12	
		For >200 To 300, Add	1.56	
03 21 13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	15.99	
		For Up To 100, Add	8.39	
		For >100 To 200, Add	4.40	
		For >200 To 300, Add	2.20	
03 21 13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	27.62	
		For Up To 100, Add	14.67	
		For >100 To 200, Add	7.65	
		For >200 To 300, Add	3.83	
03 21 13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.86	
		For Up To 100, Add	3.02	
		For >100 To 200, Add	1.58	
		For >200 To 500, Add	0.63	
03 21 13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.07	
		For Up To 100, Add	3.11	
		For >100 To 200, Add	1.77	
		For >200 To 400, Add	0.84	
03 21 13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.39	
		For Up To 100, Add	3.98	
		For >100 To 200, Add	2.25	
		For >200 To 400, Add	1.08	
03 21 13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.95	
		For Up To 100, Add	5.01	
		For >100 To 200, Add	2.82	
		For >200 To 400, Add	1.35	
03 21 13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	9.80	
		For Up To 100, Add	5.05	
		For >100 To 200, Add	2.66	
		For >200 To 300, Add	1.33	
03 21 13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	11.80	
		For Up To 100, Add	6.15	
		For >100 To 200, Add	3.23	
		For >200 To 300, Add	1.62	
03 21 13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	16.53	
		For Up To 100, Add	8.72	
		For >100 To 200, Add	4.56	
		For >200 To 300, Add	2.28	
03 21 13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	28.60	
		For Up To 100, Add	15.26	
		For >100 To 200, Add	7.95	
		For >200 To 300, Add	3.97	
03 21 13 00-0029		Columns, Galvanized Steel Reinforcement Bar (03 21 13) Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.03	
		For Up To 100, Add	0.74	
		For >100 To 200, Add	0.39	
		For >200 To 500, Add	0.16	
03 21 13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.79	
		For Up To 100, Add	1.30	
		For >100 To 200, Add	0.69	
		For >200 To 500, Add	0.28	
03 21 13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.68	
		For Up To 100, Add	1.98	
		For >100 To 200, Add	1.05	
		For >200 To 500, Add	0.42	
03 21 13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	3.71	
		For Up To 100, Add	2.79	
		For >100 To 200, Add	1.47	
		For >200 To 500, Add	0.59	
03 21 13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.05	
		For Up To 100, Add	0.76	
		For >100 To 200, Add	0.40	
		For >200 To 500, Add	0.16	
03 21 13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.82	
		For Up To 100, Add	1.33	
		For >100 To 200, Add	0.71	
		For >200 To 500, Add	0.28	
03 21 13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.73	
		For Up To 100, Add	2.03	
		For >100 To 200, Add	1.07	
		For >200 To 500, Add	0.43	
03 21 13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	3.78	
		For Up To 100, Add	2.86	
		For >100 To 200, Add	1.51	
		For >200 To 500, Add	0.60	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

CS

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	1.08	
		For Up To 100, Add		0.79	
		For >100 To 200, Add		0.42	
		For >200 To 500, Add		0.17	
03 21 13 00-0039	LF	#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	1.87	
		For Up To 100, Add		1.38	
		For >100 To 200, Add		0.73	
		For >200 To 500, Add		0.29	
03 21 13 00-0040	LF	#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	2.80	
		For Up To 100, Add		2.10	
		For >100 To 200, Add		1.11	
		For >200 To 500, Add		0.44	
03 21 13 00-0041	LF	#6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	3.89	
		For Up To 100, Add		2.97	
		For >100 To 200, Add		1.56	
		For >200 To 500, Add		0.62	
03 21 13 00-0042	LF	#7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	5.09	
		For Up To 100, Add		3.06	
		For >100 To 200, Add		1.75	
		For >200 To 400, Add		0.83	
03 21 13 00-0043	LF	#8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	6.40	
		For Up To 100, Add		3.91	
		For >100 To 200, Add		2.23	
		For >200 To 400, Add		1.06	
03 21 13 00-0044	LF	#9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	7.93	
		For Up To 100, Add		4.90	
		For >100 To 200, Add		2.78	
		For >200 To 400, Add		1.33	
03 21 13 00-0045	LF	#10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	9.77	
		For Up To 100, Add		4.95	
		For >100 To 200, Add		2.63	
		For >200 To 300, Add		1.31	
03 21 13 00-0046	LF	#11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	11.72	
		For Up To 100, Add		6.01	
		For >100 To 200, Add		3.18	
		For >200 To 300, Add		1.59	
03 21 13 00-0047	LF	#14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	16.39	
		For Up To 100, Add		8.51	
		For >100 To 200, Add		4.48	
		For >200 To 300, Add		2.24	
03 21 13 00-0048	LF	#18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	28.24	
		For Up To 100, Add		14.86	
		For >100 To 200, Add		7.78	
		For >200 To 300, Add		3.89	
03 21 13 00-0049	LF	#6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	4.00	
		For Up To 100, Add		3.08	
		For >100 To 200, Add		1.62	
		For >200 To 500, Add		0.65	
03 21 13 00-0050	LF	#7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	5.24	
		For Up To 100, Add		3.17	
		For >100 To 200, Add		1.81	
		For >200 To 400, Add		0.86	
03 21 13 00-0051	LF	#8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	6.59	
		For Up To 100, Add		4.05	
		For >100 To 200, Add		2.30	
		For >200 To 400, Add		1.10	
03 21 13 00-0052	LF	#9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	8.18	
		For Up To 100, Add		5.09	
		For >100 To 200, Add		2.88	
		For >200 To 400, Add		1.38	
03 21 13 00-0053	LF	#10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	10.07	
		For Up To 100, Add		5.13	
		For >100 To 200, Add		2.72	
		For >200 To 300, Add		1.36	
03 21 13 00-0054	LF	#11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	12.10	
		For Up To 100, Add		6.24	
		For >100 To 200, Add		3.29	
		For >200 To 300, Add		1.65	
03 21 13 00-0055	LF	#14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	16.93	
		For Up To 100, Add		8.84	
		For >100 To 200, Add		4.64	
		For >200 To 300, Add		2.32	
03 21 13 00-0056	LF	#18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	29.22	
		For Up To 100, Add		15.45	
		For >100 To 200, Add		8.07	
		For >200 To 300, Add		4.04	
03 21 13 00-0057		Footings, Galvanized Steel Reinforcement Bar (03 21 13)			
		Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0058	LF	#3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	0.92	
		For Up To 100, Add		0.69	
		For >100 To 200, Add		0.37	
		For >200 To 500, Add		0.15	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0059	LF	#4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	1.59	
		For Up To 100, Add	.....	1.22	
		For >100 To 200, Add	.....	0.64	
		For >200 To 500, Add	.....	0.26	
03 21 13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	2.42	
		For Up To 100, Add	.....	1.87	
		For >100 To 200, Add	.....	0.98	
		For >200 To 500, Add	.....	0.39	
03 21 13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	3.36	
		For Up To 100, Add	.....	2.65	
		For >100 To 200, Add	.....	1.38	
		For >200 To 500, Add	.....	0.55	
03 21 13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	0.94	
		For Up To 100, Add	.....	0.71	
		For >100 To 200, Add	.....	0.38	
		For >200 To 500, Add	.....	0.15	
03 21 13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	1.62	
		For Up To 100, Add	.....	1.25	
		For >100 To 200, Add	.....	0.66	
		For >200 To 500, Add	.....	0.26	
03 21 13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	2.47	
		For Up To 100, Add	.....	1.92	
		For >100 To 200, Add	.....	1.01	
		For >200 To 500, Add	.....	0.40	
03 21 13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	3.43	
		For Up To 100, Add	.....	2.72	
		For >100 To 200, Add	.....	1.42	
		For >200 To 500, Add	.....	0.57	
03 21 13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	0.97	
		For Up To 100, Add	.....	0.74	
		For >100 To 200, Add	.....	0.39	
		For >200 To 500, Add	.....	0.16	
03 21 13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	1.67	
		For Up To 100, Add	.....	1.30	
		For >100 To 200, Add	.....	0.68	
		For >200 To 500, Add	.....	0.27	
03 21 13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	2.54	
		For Up To 100, Add	.....	1.99	
		For >100 To 200, Add	.....	1.04	
		For >200 To 500, Add	.....	0.42	
03 21 13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	3.54	
		For Up To 100, Add	.....	2.83	
		For >100 To 200, Add	.....	1.47	
		For >200 To 500, Add	.....	0.59	
03 21 13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	4.67	
		For Up To 100, Add	.....	2.91	
		For >100 To 200, Add	.....	1.65	
		For >200 To 400, Add	.....	0.79	
03 21 13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	5.90	
		For Up To 100, Add	.....	3.74	
		For >100 To 200, Add	.....	2.10	
		For >200 To 400, Add	.....	1.01	
03 21 13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	7.33	
		For Up To 100, Add	.....	4.69	
		For >100 To 200, Add	.....	2.63	
		For >200 To 400, Add	.....	1.27	
03 21 13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	9.07	
		For Up To 100, Add	.....	4.74	
		For >100 To 200, Add	.....	2.49	
		For >200 To 300, Add	.....	1.24	
03 21 13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	10.95	
		For Up To 100, Add	.....	5.78	
		For >100 To 200, Add	.....	3.02	
		For >200 To 300, Add	.....	1.51	
03 21 13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	15.39	
		For Up To 100, Add	.....	8.21	
		For >100 To 200, Add	.....	4.28	
		For >200 To 300, Add	.....	2.14	
03 21 13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	26.66	
		For Up To 100, Add	.....	14.39	
		For >100 To 200, Add	.....	7.46	
		For >200 To 300, Add	.....	3.73	
03 21 13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	3.65	
		For Up To 100, Add	.....	2.94	
		For >100 To 200, Add	.....	1.53	
		For >200 To 500, Add	.....	0.61	
03 21 13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	4.82	
		For Up To 100, Add	.....	3.03	
		For >100 To 200, Add	.....	1.71	
		For >200 To 400, Add	.....	0.82	
03 21 13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	6.09	
		For Up To 100, Add	.....	3.88	
		For >100 To 200, Add	.....	2.18	
		For >200 To 400, Add	.....	1.05	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 13 00-0080	LF #9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	7.58		
	For Up To 100, Add	4.88		
	For >100 To 200, Add	2.73		
	For >200 To 400, Add	1.32		
03 21 13 00-0081	LF #10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	9.37		
	For Up To 100, Add	4.92		
	For >100 To 200, Add	2.58		
	For >200 To 300, Add	1.29		
03 21 13 00-0082	LF #11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	11.33		
	For Up To 100, Add	6.01		
	For >100 To 200, Add	3.14		
	For >200 To 300, Add	1.57		
03 21 13 00-0083	LF #14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	15.93		
	For Up To 100, Add	8.54		
	For >100 To 200, Add	4.44		
	For >200 To 300, Add	2.22		
03 21 13 00-0084	LF #18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	27.64		
	For Up To 100, Add	14.97		
	For >100 To 200, Add	7.76		
	For >200 To 300, Add	3.88		
03 21 13 00-0085	Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)			
	Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0086	LF #3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.90		
	For Up To 100, Add	0.68		
	For >100 To 200, Add	0.36		
	For >200 To 500, Add	0.14		
03 21 13 00-0087	LF #4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.56		
	For Up To 100, Add	1.21		
	For >100 To 200, Add	0.63		
	For >200 To 500, Add	0.25		
03 21 13 00-0088	LF #5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	2.36		
	For Up To 100, Add	1.85		
	For >100 To 200, Add	0.97		
	For >200 To 500, Add	0.39		
03 21 13 00-0089	LF #6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	3.29		
	For Up To 100, Add	2.62		
	For >100 To 200, Add	1.37		
	For >200 To 500, Add	0.55		
03 21 13 00-0090	LF #3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.92		
	For Up To 100, Add	0.70		
	For >100 To 200, Add	0.37		
	For >200 To 500, Add	0.15		
03 21 13 00-0091	LF #4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.59		
	For Up To 100, Add	1.24		
	For >100 To 200, Add	0.65		
	For >200 To 500, Add	0.26		
03 21 13 00-0092	LF #5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	2.41		
	For Up To 100, Add	1.90		
	For >100 To 200, Add	0.99		
	For >200 To 500, Add	0.40		
03 21 13 00-0093	LF #6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	3.36		
	For Up To 100, Add	2.69		
	For >100 To 200, Add	1.40		
	For >200 To 500, Add	0.56		
03 21 13 00-0094	LF #3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.95		
	For Up To 100, Add	0.73		
	For >100 To 200, Add	0.39		
	For >200 To 500, Add	0.15		
03 21 13 00-0095	LF #4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.64		
	For Up To 100, Add	1.29		
	For >100 To 200, Add	0.67		
	For >200 To 500, Add	0.27		
03 21 13 00-0096	LF #5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.48		
	For Up To 100, Add	1.97		
	For >100 To 200, Add	1.03		
	For >200 To 500, Add	0.41		
03 21 13 00-0097	LF #6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.47		
	For Up To 100, Add	2.80		
	For >100 To 200, Add	1.46		
	For >200 To 500, Add	0.58		
03 21 13 00-0098	LF #7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.59		
	For Up To 100, Add	2.89		
	For >100 To 200, Add	1.63		
	For >200 To 400, Add	0.78		
03 21 13 00-0099	LF #8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.80		
	For Up To 100, Add	3.70		
	For >100 To 200, Add	2.08		
	For >200 To 400, Add	1.00		
03 21 13 00-0100	LF #9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	7.21		
	For Up To 100, Add	4.65		
	For >100 To 200, Add	2.60		
	For >200 To 400, Add	1.25		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	8.94	
		For Up To 100, Add		4.70	
		For >100 To 200, Add		2.46	
		For >200 To 300, Add		1.23	
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	10.80	
		For Up To 100, Add		5.74	
		For >100 To 200, Add		2.99	
		For >200 To 300, Add		1.50	
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	15.18	
		For Up To 100, Add		8.15	
		For >100 To 200, Add		4.23	
		For >200 To 300, Add		2.12	
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	26.35	
		For Up To 100, Add		14.29	
		For >100 To 200, Add		7.40	
		For >200 To 300, Add		3.70	
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	3.58	
		For Up To 100, Add		2.91	
		For >100 To 200, Add		1.51	
		For >200 To 500, Add		0.60	
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	4.74	
		For Up To 100, Add		3.00	
		For >100 To 200, Add		1.69	
		For >200 To 400, Add		0.81	
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	5.99	
		For Up To 100, Add		3.84	
		For >100 To 200, Add		2.15	
		For >200 To 400, Add		1.04	
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	7.46	
		For Up To 100, Add		4.84	
		For >100 To 200, Add		2.70	
		For >200 To 400, Add		1.30	
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	9.24	
		For Up To 100, Add		4.88	
		For >100 To 200, Add		2.55	
		For >200 To 300, Add		1.28	
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	11.18	
		For Up To 100, Add		5.96	
		For >100 To 200, Add		3.11	
		For >200 To 300, Add		1.55	
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	15.72	
		For Up To 100, Add		8.47	
		For >100 To 200, Add		4.40	
		For >200 To 300, Add		2.20	
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	27.33	
		For Up To 100, Add		14.88	
		For >100 To 200, Add		7.69	
		For >200 To 300, Add		3.85	
03 21 13 00-0113		Elevated Slabs, Galvanized Steel Reinforcement Bar (03 21 13)			
		Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	0.85	
		For Up To 100, Add		0.66	
		For >100 To 200, Add		0.35	
		For >200 To 500, Add		0.14	
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.48	
		For Up To 100, Add		1.17	
		For >100 To 200, Add		0.61	
		For >200 To 500, Add		0.25	
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	2.25	
		For Up To 100, Add		1.81	
		For >100 To 200, Add		0.94	
		For >200 To 500, Add		0.38	
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	3.15	
		For Up To 100, Add		2.56	
		For >100 To 200, Add		1.33	
		For >200 To 500, Add		0.53	
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	0.87	
		For Up To 100, Add		0.68	
		For >100 To 200, Add		0.36	
		For >200 To 500, Add		0.14	
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.51	
		For Up To 100, Add		1.20	
		For >100 To 200, Add		0.63	
		For >200 To 500, Add		0.25	
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	2.30	
		For Up To 100, Add		1.86	
		For >100 To 200, Add		0.97	
		For >200 To 500, Add		0.39	
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	3.22	
		For Up To 100, Add		2.63	
		For >100 To 200, Add		1.37	
		For >200 To 500, Add		0.55	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 13 00-0122	LF #3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.90		
	For Up To 100, Add	0.71		
	For >100 To 200, Add	0.37		
	For >200 To 500, Add	0.15		
03 21 13 00-0123	LF #4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.56		
	For Up To 100, Add	1.25		
	For >100 To 200, Add	0.65		
	For >200 To 500, Add	0.26		
03 21 13 00-0124	LF #5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.37		
	For Up To 100, Add	1.93		
	For >100 To 200, Add	1.00		
	For >200 To 500, Add	0.40		
03 21 13 00-0125	LF #6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.33		
	For Up To 100, Add	2.74		
	For >100 To 200, Add	1.42		
	For >200 To 500, Add	0.57		
03 21 13 00-0126	LF #7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.41		
	For Up To 100, Add	2.82		
	For >100 To 200, Add	1.58		
	For >200 To 400, Add	0.76		
03 21 13 00-0127	LF #8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.59		
	For Up To 100, Add	3.63		
	For >100 To 200, Add	2.02		
	For >200 To 400, Add	0.98		
03 21 13 00-0128	LF #9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.98		
	For Up To 100, Add	4.57		
	For >100 To 200, Add	2.54		
	For >200 To 400, Add	1.23		
03 21 13 00-0129	LF #10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.67		
	For Up To 100, Add	4.62		
	For >100 To 200, Add	2.41		
	For >200 To 300, Add	1.20		
03 21 13 00-0130	LF #11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	10.48		
	For Up To 100, Add	5.64		
	For >100 To 200, Add	2.93		
	For >200 To 300, Add	1.46		
03 21 13 00-0131	LF #14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	14.79		
	For Up To 100, Add	8.03		
	For >100 To 200, Add	4.16		
	For >200 To 300, Add	2.08		
03 21 13 00-0132	LF #18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	25.72		
	For Up To 100, Add	14.10		
	For >100 To 200, Add	7.27		
	For >200 To 300, Add	3.64		
03 21 13 00-0133	LF #6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.44		
	For Up To 100, Add	2.85		
	For >100 To 200, Add	1.48		
	For >200 To 500, Add	0.59		
03 21 13 00-0134	LF #7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.56		
	For Up To 100, Add	2.94		
	For >100 To 200, Add	1.64		
	For >200 To 400, Add	0.79		
03 21 13 00-0135	LF #8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.78		
	For Up To 100, Add	3.77		
	For >100 To 200, Add	2.10		
	For >200 To 400, Add	1.02		
03 21 13 00-0136	LF #9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	7.23		
	For Up To 100, Add	4.76		
	For >100 To 200, Add	2.64		
	For >200 To 400, Add	1.28		
03 21 13 00-0137	LF #10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.97		
	For Up To 100, Add	4.80		
	For >100 To 200, Add	2.50		
	For >200 To 300, Add	1.25		
03 21 13 00-0138	LF #11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	10.86		
	For Up To 100, Add	5.87		
	For >100 To 200, Add	3.04		
	For >200 To 300, Add	1.52		
03 21 13 00-0139	LF #14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	15.33		
	For Up To 100, Add	8.36		
	For >100 To 200, Add	4.32		
	For >200 To 300, Add	2.16		
03 21 13 00-0140	LF #18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	26.70		
	For Up To 100, Add	14.69		
	For >100 To 200, Add	7.57		
	For >200 To 300, Add	3.78		
03 21 13 00-0141	Walls, Galvanized Steel Reinforcement Bar (03 21 13)			
	Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0142	LF #3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.83		
	For Up To 100, Add	0.66		
	For >100 To 200, Add	0.34		
	For >200 To 500, Add	0.14		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	.....	1.44	
		For Up To 100, Add		1.16	
		For >100 To 200, Add		0.60	
		For >200 To 500, Add		0.24	
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	.....	2.19	
		For Up To 100, Add		1.78	
		For >100 To 200, Add		0.93	
		For >200 To 500, Add		0.37	
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	.....	3.08	
		For Up To 100, Add		2.53	
		For >100 To 200, Add		1.31	
		For >200 To 500, Add		0.53	
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	0.85	
		For Up To 100, Add		0.68	
		For >100 To 200, Add		0.35	
		For >200 To 500, Add		0.14	
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	1.47	
		For Up To 100, Add		1.19	
		For >100 To 200, Add		0.62	
		For >200 To 500, Add		0.25	
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	2.24	
		For Up To 100, Add		1.83	
		For >100 To 200, Add		0.95	
		For >200 To 500, Add		0.38	
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	3.15	
		For Up To 100, Add		2.60	
		For >100 To 200, Add		1.35	
		For >200 To 500, Add		0.54	
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	0.88	
		For Up To 100, Add		0.71	
		For >100 To 200, Add		0.37	
		For >200 To 500, Add		0.15	
03 21 13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	1.52	
		For Up To 100, Add		1.24	
		For >100 To 200, Add		0.64	
		For >200 To 500, Add		0.26	
03 21 13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	2.31	
		For Up To 100, Add		1.90	
		For >100 To 200, Add		0.99	
		For >200 To 500, Add		0.39	
03 21 13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	3.26	
		For Up To 100, Add		2.71	
		For >100 To 200, Add		1.40	
		For >200 To 500, Add		0.56	
03 21 13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	4.32	
		For Up To 100, Add		2.79	
		For >100 To 200, Add		1.56	
		For >200 To 400, Add		0.75	
03 21 13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	5.50	
		For Up To 100, Add		3.60	
		For >100 To 200, Add		2.00	
		For >200 To 400, Add		0.97	
03 21 13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	6.87	
		For Up To 100, Add		4.53	
		For >100 To 200, Add		2.52	
		For >200 To 400, Add		1.22	
03 21 13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	8.53	
		For Up To 100, Add		4.58	
		For >100 To 200, Add		2.38	
		For >200 To 300, Add		1.19	
03 21 13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	10.33	
		For Up To 100, Add		5.60	
		For >100 To 200, Add		2.90	
		For >200 To 300, Add		1.45	
03 21 13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	14.59	
		For Up To 100, Add		7.97	
		For >100 To 200, Add		4.12	
		For >200 To 300, Add		2.06	
03 21 13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	25.41	
		For Up To 100, Add		14.01	
		For >100 To 200, Add		7.21	
		For >200 To 300, Add		3.61	
03 21 13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	3.37	
		For Up To 100, Add		2.82	
		For >100 To 200, Add		1.46	
		For >200 To 500, Add		0.58	
03 21 13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	4.47	
		For Up To 100, Add		2.90	
		For >100 To 200, Add		1.62	
		For >200 To 400, Add		0.78	
03 21 13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	5.69	
		For Up To 100, Add		3.74	
		For >100 To 200, Add		2.08	
		For >200 To 400, Add		1.01	



Concrete		03	CS
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0164 LF #9, Grade 75, Walls, Galvanized Steel Reinforcement Bar 7.12		
For Up To 100, Add	4.72	
For >100 To 200, Add	2.62	
For >200 To 400, Add	1.27	
03 21 13 00-0165 LF #10, Grade 75, Walls, Galvanized Steel Reinforcement Bar 8.83		
For Up To 100, Add	4.76	
For >100 To 200, Add	2.47	
For >200 To 300, Add	1.24	
03 21 13 00-0166 LF #11, Grade 75, Walls, Galvanized Steel Reinforcement Bar 10.71		
For Up To 100, Add	5.82	
For >100 To 200, Add	3.01	
For >200 To 300, Add	1.51	
03 21 13 00-0167 LF #14, Grade 75, Walls, Galvanized Steel Reinforcement Bar 15.13		
For Up To 100, Add	8.30	
For >100 To 200, Add	4.28	
For >200 To 300, Add	2.14	
03 21 13 00-0168 LF #18, Grade 75, Walls, Galvanized Steel Reinforcement Bar 26.39		
For Up To 100, Add	14.60	
For >100 To 200, Add	7.51	
For >200 To 300, Add	3.75	

03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)

03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002 LF #3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 0.97	
For Up To 100, Add	0.70
For >100 To 200, Add	0.37
For >200 To 500, Add	0.15
03 21 16 00-0003 LF #4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 1.66	
For Up To 100, Add	1.22
For >100 To 200, Add	0.65
For >200 To 500, Add	0.26
03 21 16 00-0004 LF #5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 2.51	
For Up To 100, Add	1.87
For >100 To 200, Add	0.99
For >200 To 500, Add	0.40
03 21 16 00-0005 LF #6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 3.49	
For Up To 100, Add	2.65
For >100 To 200, Add	1.40
For >200 To 500, Add	0.56
03 21 16 00-0006 LF #3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 0.99	
For Up To 100, Add	0.72
For >100 To 200, Add	0.38
For >200 To 500, Add	0.15
03 21 16 00-0007 LF #4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 1.69	
For Up To 100, Add	1.25
For >100 To 200, Add	0.66
For >200 To 500, Add	0.27
03 21 16 00-0008 LF #5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 2.56	
For Up To 100, Add	1.92
For >100 To 200, Add	1.02
For >200 To 500, Add	0.41
03 21 16 00-0009 LF #6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 3.56	
For Up To 100, Add	2.72
For >100 To 200, Add	1.43
For >200 To 500, Add	0.57
03 21 16 00-0010 LF #3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 1.02	
For Up To 100, Add	0.75
For >100 To 200, Add	0.40
For >200 To 500, Add	0.16
03 21 16 00-0011 LF #4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 1.74	
For Up To 100, Add	1.30
For >100 To 200, Add	0.69
For >200 To 500, Add	0.28
03 21 16 00-0012 LF #5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 2.64	
For Up To 100, Add	2.00
For >100 To 200, Add	1.06
For >200 To 500, Add	0.42
03 21 16 00-0013 LF #6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 3.67	
For Up To 100, Add	2.83
For >100 To 200, Add	1.49
For >200 To 500, Add	0.59
03 21 16 00-0014 LF #7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 4.81	
For Up To 100, Add	2.92
For >100 To 200, Add	1.67
For >200 To 400, Add	0.79
03 21 16 00-0015 LF #8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 6.06	
For Up To 100, Add	3.74
For >100 To 200, Add	2.12
For >200 To 400, Add	1.01
03 21 16 00-0016 LF #9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar 7.52	
For Up To 100, Add	4.69
For >100 To 200, Add	2.65
For >200 To 400, Add	1.27

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0017	LF		#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	9.27	
			For Up To 100, Add	4.73	
			For >100 To 200, Add	2.51	
			For >200 To 300, Add	1.25	
03 21 16 00-0018	LF		#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	11.14	
			For Up To 100, Add	5.75	
			For >100 To 200, Add	3.03	
			For >200 To 300, Add	1.52	
03 21 16 00-0019	LF		#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	15.58	
			For Up To 100, Add	8.15	
			For >100 To 200, Add	4.27	
			For >200 To 300, Add	2.14	
03 21 16 00-0020	LF		#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	26.90	
			For Up To 100, Add	14.24	
			For >100 To 200, Add	7.44	
			For >200 To 300, Add	3.72	
03 21 16 00-0021	LF		#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.78	
			For Up To 100, Add	2.94	
			For >100 To 200, Add	1.54	
			For >200 To 500, Add	0.62	
03 21 16 00-0022	LF		#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.96	
			For Up To 100, Add	3.03	
			For >100 To 200, Add	1.73	
			For >200 To 400, Add	0.82	
03 21 16 00-0023	LF		#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.25	
			For Up To 100, Add	3.88	
			For >100 To 200, Add	2.20	
			For >200 To 400, Add	1.05	
03 21 16 00-0024	LF		#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.77	
			For Up To 100, Add	4.88	
			For >100 To 200, Add	2.75	
			For >200 To 400, Add	1.32	
03 21 16 00-0025	LF		#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	9.58	
			For Up To 100, Add	4.92	
			For >100 To 200, Add	2.60	
			For >200 To 300, Add	1.30	
03 21 16 00-0026	LF		#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	11.52	
			For Up To 100, Add	5.98	
			For >100 To 200, Add	3.15	
			For >200 To 300, Add	1.57	
03 21 16 00-0027	LF		#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	16.13	
			For Up To 100, Add	8.48	
			For >100 To 200, Add	4.44	
			For >200 To 300, Add	2.22	
03 21 16 00-0028	LF		#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	27.87	
			For Up To 100, Add	14.82	
			For >100 To 200, Add	7.73	
			For >200 To 300, Add	3.86	
03 21 16 00-0029			Columns, Epoxy Coated Steel Reinforcement Bar (03 21 16) Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0030	LF		#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.01	
			For Up To 100, Add	0.72	
			For >100 To 200, Add	0.38	
			For >200 To 500, Add	0.15	
03 21 16 00-0031	LF		#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.75	
			For Up To 100, Add	1.26	
			For >100 To 200, Add	0.67	
			For >200 To 500, Add	0.27	
03 21 16 00-0032	LF		#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.62	
			For Up To 100, Add	1.92	
			For >100 To 200, Add	1.02	
			For >200 To 500, Add	0.41	
03 21 16 00-0033	LF		#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	3.63	
			For Up To 100, Add	2.71	
			For >100 To 200, Add	1.43	
			For >200 To 500, Add	0.57	
03 21 16 00-0034	LF		#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.03	
			For Up To 100, Add	0.74	
			For >100 To 200, Add	0.39	
			For >200 To 500, Add	0.16	
03 21 16 00-0035	LF		#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.78	
			For Up To 100, Add	1.29	
			For >100 To 200, Add	0.69	
			For >200 To 500, Add	0.27	
03 21 16 00-0036	LF		#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.67	
			For Up To 100, Add	1.97	
			For >100 To 200, Add	1.04	
			For >200 To 500, Add	0.42	
03 21 16 00-0037	LF		#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	3.70	
			For Up To 100, Add	2.78	
			For >100 To 200, Add	1.47	
			For >200 To 500, Add	0.59	



	Concrete	03	CS
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0038	LF	#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	1.06	
		For Up To 100, Add		0.77	
		For >100 To 200, Add		0.41	
		For >200 To 500, Add		0.16	
03 21 16 00-0039	LF	#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	1.83	
		For Up To 100, Add		1.34	
		For >100 To 200, Add		0.71	
		For >200 To 500, Add		0.28	
03 21 16 00-0040	LF	#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	2.75	
		For Up To 100, Add		2.05	
		For >100 To 200, Add		1.08	
		For >200 To 500, Add		0.43	
03 21 16 00-0041	LF	#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	3.81	
		For Up To 100, Add		2.89	
		For >100 To 200, Add		1.52	
		For >200 To 500, Add		0.61	
03 21 16 00-0042	LF	#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	4.98	
		For Up To 100, Add		2.98	
		For >100 To 200, Add		1.71	
		For >200 To 400, Add		0.81	
03 21 16 00-0043	LF	#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	6.26	
		For Up To 100, Add		3.81	
		For >100 To 200, Add		2.17	
		For >200 To 400, Add		1.03	
03 21 16 00-0044	LF	#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	7.75	
		For Up To 100, Add		4.77	
		For >100 To 200, Add		2.71	
		For >200 To 400, Add		1.29	
03 21 16 00-0045	LF	#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	9.54	
		For Up To 100, Add		4.82	
		For >100 To 200, Add		2.56	
		For >200 To 300, Add		1.28	
03 21 16 00-0046	LF	#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	11.44	
		For Up To 100, Add		5.84	
		For >100 To 200, Add		3.09	
		For >200 To 300, Add		1.55	
03 21 16 00-0047	LF	#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	15.98	
		For Up To 100, Add		8.27	
		For >100 To 200, Add		4.35	
		For >200 To 300, Add		2.18	
03 21 16 00-0048	LF	#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	27.52	
		For Up To 100, Add		14.43	
		For >100 To 200, Add		7.56	
		For >200 To 300, Add		3.78	
03 21 16 00-0049	LF	#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	3.92	
		For Up To 100, Add		3.00	
		For >100 To 200, Add		1.58	
		For >200 To 500, Add		0.63	
03 21 16 00-0050	LF	#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	5.13	
		For Up To 100, Add		3.09	
		For >100 To 200, Add		1.77	
		For >200 To 400, Add		0.84	
03 21 16 00-0051	LF	#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	6.45	
		For Up To 100, Add		3.95	
		For >100 To 200, Add		2.25	
		For >200 To 400, Add		1.07	
03 21 16 00-0052	LF	#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	8.00	
		For Up To 100, Add		4.96	
		For >100 To 200, Add		2.81	
		For >200 To 400, Add		1.34	
03 21 16 00-0053	LF	#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	9.85	
		For Up To 100, Add		5.00	
		For >100 To 200, Add		2.65	
		For >200 To 300, Add		1.33	
03 21 16 00-0054	LF	#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	11.82	
		For Up To 100, Add		6.07	
		For >100 To 200, Add		3.21	
		For >200 To 300, Add		1.60	
03 21 16 00-0055	LF	#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	16.53	
		For Up To 100, Add		8.60	
		For >100 To 200, Add		4.52	
		For >200 To 300, Add		2.26	
03 21 16 00-0056	LF	#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	28.49	
		For Up To 100, Add		15.01	
		For >100 To 200, Add		7.85	
		For >200 To 300, Add		3.93	
03 21 16 00-0057		Footings, Epoxy Coated Steel Reinforcement Bar (03 21 16)			
		Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.90	
		For Up To 100, Add		0.67	
		For >100 To 200, Add		0.36	
		For >200 To 500, Add		0.14	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0059 LF #4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.55	
For Up To 100, Add	1.18	
For >100 To 200, Add	0.62	
For >200 To 500, Add	0.25	
03 21 16 00-0060 LF #5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.36	
For Up To 100, Add	1.81	
For >100 To 200, Add	0.95	
For >200 To 500, Add	0.38	
03 21 16 00-0061 LF #6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.28	
For Up To 100, Add	2.57	
For >100 To 200, Add	1.34	
For >200 To 500, Add	0.54	
03 21 16 00-0062 LF #3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.92	
For Up To 100, Add	0.69	
For >100 To 200, Add	0.37	
For >200 To 500, Add	0.15	
03 21 16 00-0063 LF #4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.58	
03 21 16 00-0064 LF #5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.41	
For Up To 100, Add	1.86	
For >100 To 200, Add	0.98	
For >200 To 500, Add	0.39	
03 21 16 00-0065 LF #6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.35	
For Up To 100, Add	2.64	
For >100 To 200, Add	1.38	
For >200 To 500, Add	0.55	
03 21 16 00-0066 LF #3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.95	
For Up To 100, Add	0.72	
For >100 To 200, Add	0.38	
For >200 To 500, Add	0.15	
03 21 16 00-0067 LF #4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.63	
For Up To 100, Add	1.26	
For >100 To 200, Add	0.66	
For >200 To 500, Add	0.26	
03 21 16 00-0068 LF #5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.49	
For Up To 100, Add	1.94	
For >100 To 200, Add	1.02	
For >200 To 500, Add	0.41	
03 21 16 00-0069 LF #6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.46	
For Up To 100, Add	2.75	
For >100 To 200, Add	1.43	
For >200 To 500, Add	0.57	
03 21 16 00-0070 LF #7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.56	
For Up To 100, Add	2.83	
For >100 To 200, Add	1.60	
For >200 To 400, Add	0.77	
03 21 16 00-0071 LF #8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.76	
For Up To 100, Add	3.63	
For >100 To 200, Add	2.05	
For >200 To 400, Add	0.98	
03 21 16 00-0072 LF #9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	7.15	
For Up To 100, Add	4.56	
For >100 To 200, Add	2.56	
For >200 To 400, Add	1.23	
03 21 16 00-0073 LF #10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	8.84	
For Up To 100, Add	4.61	
For >100 To 200, Add	2.42	
For >200 To 300, Add	1.21	
03 21 16 00-0074 LF #11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	10.67	
For Up To 100, Add	5.61	
For >100 To 200, Add	2.94	
For >200 To 300, Add	1.47	
03 21 16 00-0075 LF #14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	14.98	
For Up To 100, Add	7.97	
For >100 To 200, Add	4.15	
For >200 To 300, Add	2.08	
03 21 16 00-0076 LF #18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	25.94	
For Up To 100, Add	13.95	
For >100 To 200, Add	7.25	
For >200 To 300, Add	3.62	
03 21 16 00-0077 LF #6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.57	
For Up To 100, Add	2.86	
For >100 To 200, Add	1.49	
For >200 To 500, Add	0.60	
03 21 16 00-0078 LF #7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.71	
For Up To 100, Add	2.94	
For >100 To 200, Add	1.66	
For >200 To 400, Add	0.80	
03 21 16 00-0079 LF #8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.95	
For Up To 100, Add	3.77	
For >100 To 200, Add	2.12	
For >200 To 400, Add	1.02	
03 21 16 00-0080 LF #9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	7.40	
For Up To 100, Add	4.75	
For >100 To 200, Add	2.66	
For >200 To 400, Add	1.28	



Concrete		03	CS
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 21 16 00-0081	LF #10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	9.15		
	For Up To 100, Add	4.79		
	For >100 To 200, Add	2.51		
	For >200 To 300, Add	1.26		
03 21 16 00-0082	LF #11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	11.05		
	For Up To 100, Add	5.84		
	For >100 To 200, Add	3.05		
	For >200 To 300, Add	1.53		
03 21 16 00-0083	LF #14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	15.53		
	For Up To 100, Add	8.30		
	For >100 To 200, Add	4.32		
	For >200 To 300, Add	2.16		
03 21 16 00-0084	LF #18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	26.91		
	For Up To 100, Add	14.54		
	For >100 To 200, Add	7.54		
	For >200 To 300, Add	3.77		
03 21 16 00-0085	Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)			
	Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0086	LF #3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.88		
	For Up To 100, Add	0.66		
	For >100 To 200, Add	0.35		
	For >200 To 500, Add	0.14		
03 21 16 00-0087	LF #4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.52		
	For Up To 100, Add	1.17		
	For >100 To 200, Add	0.61		
	For >200 To 500, Add	0.25		
03 21 16 00-0088	LF #5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.30		
	For Up To 100, Add	1.79		
	For >100 To 200, Add	0.94		
	For >200 To 500, Add	0.38		
03 21 16 00-0089	LF #6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.21		
	For Up To 100, Add	2.54		
	For >100 To 200, Add	1.33		
	For >200 To 500, Add	0.53		
03 21 16 00-0090	LF #3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.90		
	For Up To 100, Add	0.68		
	For >100 To 200, Add	0.36		
	For >200 To 500, Add	0.14		
03 21 16 00-0091	LF #4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.55		
	For Up To 100, Add	1.20		
	For >100 To 200, Add	0.63		
	For >200 To 500, Add	0.25		
03 21 16 00-0092	LF #5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.35		
	For Up To 100, Add	1.84		
	For >100 To 200, Add	0.96		
	For >200 To 500, Add	0.39		
03 21 16 00-0093	LF #6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.28		
	For Up To 100, Add	2.61		
	For >100 To 200, Add	1.36		
	For >200 To 500, Add	0.54		
03 21 16 00-0094	LF #3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.93		
	For Up To 100, Add	0.71		
	For >100 To 200, Add	0.38		
	For >200 To 500, Add	0.15		
03 21 16 00-0095	LF #4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.60		
	For Up To 100, Add	1.25		
	For >100 To 200, Add	0.65		
	For >200 To 500, Add	0.26		
03 21 16 00-0096	LF #5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.43		
	For Up To 100, Add	1.92		
	For >100 To 200, Add	1.00		
	For >200 To 500, Add	0.40		
03 21 16 00-0097	LF #6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.39		
	For Up To 100, Add	2.72		
	For >100 To 200, Add	1.42		
	For >200 To 500, Add	0.57		
03 21 16 00-0098	LF #7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.48		
	For Up To 100, Add	2.80		
	For >100 To 200, Add	1.58		
	For >200 To 400, Add	0.76		
03 21 16 00-0099	LF #8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.66		
	For Up To 100, Add	3.60		
	For >100 To 200, Add	2.02		
	For >200 To 400, Add	0.97		
03 21 16 00-0100	LF #9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	7.03		
	For Up To 100, Add	4.52		
	For >100 To 200, Add	2.53		
	For >200 To 400, Add	1.22		
03 21 16 00-0101	LF #10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.71		
	For Up To 100, Add	4.57		
	For >100 To 200, Add	2.39		
	For >200 To 300, Add	1.20		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0102	LF		#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	10.52	
			For Up To 100, Add	5.57	
			For >100 To 200, Add	2.91	
			For >200 To 300, Add	1.45	
03 21 16 00-0103	LF		#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	14.77	
			For Up To 100, Add	7.90	
			For >100 To 200, Add	4.11	
			For >200 To 300, Add	2.06	
03 21 16 00-0104	LF		#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	25.63	
			For Up To 100, Add	13.86	
			For >100 To 200, Add	7.18	
			For >200 To 300, Add	3.59	
03 21 16 00-0105	LF		#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.50	
			For Up To 100, Add	2.83	
			For >100 To 200, Add	1.47	
			For >200 To 500, Add	0.59	
03 21 16 00-0106	LF		#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.63	
			For Up To 100, Add	2.92	
			For >100 To 200, Add	1.64	
			For >200 To 400, Add	0.79	
03 21 16 00-0107	LF		#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.85	
			For Up To 100, Add	3.74	
			For >100 To 200, Add	2.10	
			For >200 To 400, Add	1.01	
03 21 16 00-0108	LF		#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	7.28	
			For Up To 100, Add	4.70	
			For >100 To 200, Add	2.63	
			For >200 To 400, Add	1.27	
03 21 16 00-0109	LF		#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	9.02	
			For Up To 100, Add	4.75	
			For >100 To 200, Add	2.49	
			For >200 To 300, Add	1.24	
03 21 16 00-0110	LF		#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	10.90	
			For Up To 100, Add	5.80	
			For >100 To 200, Add	3.02	
			For >200 To 300, Add	1.51	
03 21 16 00-0111	LF		#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	15.32	
			For Up To 100, Add	8.23	
			For >100 To 200, Add	4.28	
			For >200 To 300, Add	2.14	
03 21 16 00-0112	LF		#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	26.60	
			For Up To 100, Add	14.44	
			For >100 To 200, Add	7.47	
			For >200 To 300, Add	3.74	
03 21 16 00-0113			Elevated Slabs, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
			Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0114	LF		#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.83	
			For Up To 100, Add	0.64	
			For >100 To 200, Add	0.34	
			For >200 To 500, Add	0.14	
03 21 16 00-0115	LF		#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.44	
			For Up To 100, Add	1.13	
			For >100 To 200, Add	0.59	
			For >200 To 500, Add	0.24	
03 21 16 00-0116	LF		#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.19	
			For Up To 100, Add	1.75	
			For >100 To 200, Add	0.91	
			For >200 To 500, Add	0.36	
03 21 16 00-0117	LF		#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.07	
			For Up To 100, Add	2.48	
			For >100 To 200, Add	1.29	
			For >200 To 500, Add	0.52	
03 21 16 00-0118	LF		#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.85	
			For Up To 100, Add	0.66	
			For >100 To 200, Add	0.35	
			For >200 To 500, Add	0.14	
03 21 16 00-0119	LF		#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.47	
			For Up To 100, Add	1.16	
			For >100 To 200, Add	0.61	
			For >200 To 500, Add	0.24	
03 21 16 00-0120	LF		#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.24	
			For Up To 100, Add	1.80	
			For >100 To 200, Add	0.94	
			For >200 To 500, Add	0.37	
03 21 16 00-0121	LF		#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.14	
			For Up To 100, Add	2.55	
			For >100 To 200, Add	1.33	
			For >200 To 500, Add	0.53	
03 21 16 00-0122	LF		#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.88	
			For Up To 100, Add	0.69	
			For >100 To 200, Add	0.36	
			For >200 To 500, Add	0.15	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 16 00-0123	LF #4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.52		
	For Up To 100, Add	1.21		
	For >100 To 200, Add	0.63		
	For >200 To 500, Add	0.25		
03 21 16 00-0124	LF #5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.32		
	For Up To 100, Add	1.88		
	For >100 To 200, Add	0.98		
	For >200 To 500, Add	0.39		
03 21 16 00-0125	LF #6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.25		
	For Up To 100, Add	2.66		
	For >100 To 200, Add	1.38		
	For >200 To 500, Add	0.55		
03 21 16 00-0126	LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.30		
	For Up To 100, Add	2.74		
	For >100 To 200, Add	1.54		
	For >200 To 400, Add	0.74		
03 21 16 00-0127	LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.45		
	For Up To 100, Add	3.52		
	For >100 To 200, Add	1.97		
	For >200 To 400, Add	0.95		
03 21 16 00-0128	LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.80		
	For Up To 100, Add	4.44		
	For >100 To 200, Add	2.47		
	For >200 To 400, Add	1.19		
03 21 16 00-0129	LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.44		
	For Up To 100, Add	4.49		
	For >100 To 200, Add	2.34		
	For >200 To 300, Add	1.17		
03 21 16 00-0130	LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	10.20		
	For Up To 100, Add	5.47		
	For >100 To 200, Add	2.84		
	For >200 To 300, Add	1.42		
03 21 16 00-0131	LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	14.38		
	For Up To 100, Add	7.79		
	For >100 To 200, Add	4.03		
	For >200 To 300, Add	2.02		
03 21 16 00-0132	LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	25.00		
	For Up To 100, Add	13.67		
	For >100 To 200, Add	7.06		
	For >200 To 300, Add	3.53		
03 21 16 00-0133	LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.36		
	For Up To 100, Add	2.77		
	For >100 To 200, Add	1.44		
	For >200 To 500, Add	0.57		
03 21 16 00-0134	LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.45		
	For Up To 100, Add	2.85		
	For >100 To 200, Add	1.60		
	For >200 To 400, Add	0.77		
03 21 16 00-0135	LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.64		
	For Up To 100, Add	3.67		
	For >100 To 200, Add	2.04		
	For >200 To 400, Add	0.99		
03 21 16 00-0136	LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.05		
	For Up To 100, Add	4.62		
	For >100 To 200, Add	2.57		
	For >200 To 400, Add	1.24		
03 21 16 00-0137	LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.75		
	For Up To 100, Add	4.67		
	For >100 To 200, Add	2.43		
	For >200 To 300, Add	1.22		
03 21 16 00-0138	LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	10.58		
	For Up To 100, Add	5.70		
	For >100 To 200, Add	2.96		
	For >200 To 300, Add	1.48		
03 21 16 00-0139	LF #14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	14.93		
	For Up To 100, Add	8.12		
	For >100 To 200, Add	4.20		
	For >200 To 300, Add	2.10		
03 21 16 00-0140	LF #18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	25.97		
	For Up To 100, Add	14.25		
	For >100 To 200, Add	7.35		
	For >200 To 300, Add	3.67		
03 21 16 00-0141	Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)			
	Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0142	LF #3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.81		
	For Up To 100, Add	0.64		
	For >100 To 200, Add	0.33		
	For >200 To 500, Add	0.13		
03 21 16 00-0143	LF #4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.40		
	For Up To 100, Add	1.12		
	For >100 To 200, Add	0.58		
	For >200 To 500, Add	0.23		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0144	LF	#5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.13		
		For Up To 100, Add	1.72		
		For >100 To 200, Add	0.90		
		For >200 To 500, Add	0.36		
03 21 16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.00		
		For Up To 100, Add	2.45		
		For >100 To 200, Add	1.27		
		For >200 To 500, Add	0.51		
03 21 16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.83		
		For Up To 100, Add	0.66		
		For >100 To 200, Add	0.34		
		For >200 To 500, Add	0.14		
03 21 16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.43		
		For Up To 100, Add	1.15		
		For >100 To 200, Add	0.60		
		For >200 To 500, Add	0.24		
03 21 16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.18		
		For Up To 100, Add	1.77		
		For >100 To 200, Add	0.92		
		For >200 To 500, Add	0.37		
03 21 16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.07		
		For Up To 100, Add	2.52		
		For >100 To 200, Add	1.31		
		For >200 To 500, Add	0.52		
03 21 16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.86		
		For Up To 100, Add	0.69		
		For >100 To 200, Add	0.36		
		For >200 To 500, Add	0.14		
03 21 16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.48		
		For Up To 100, Add	1.20		
		For >100 To 200, Add	0.62		
		For >200 To 500, Add	0.25		
03 21 16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.26		
		For Up To 100, Add	1.85		
		For >100 To 200, Add	0.96		
		For >200 To 500, Add	0.38		
03 21 16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.18		
		For Up To 100, Add	2.63		
		For >100 To 200, Add	1.36		
		For >200 To 500, Add	0.55		
03 21 16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.21		
		For Up To 100, Add	2.71		
		For >100 To 200, Add	1.52		
		For >200 To 400, Add	0.73		
03 21 16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.36		
		For Up To 100, Add	3.49		
		For >100 To 200, Add	1.95		
		For >200 To 400, Add	0.94		
03 21 16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.69		
		For Up To 100, Add	4.40		
		For >100 To 200, Add	2.44		
		For >200 To 400, Add	1.18		
03 21 16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.30		
		For Up To 100, Add	4.44		
		For >100 To 200, Add	2.31		
		For >200 To 300, Add	1.16		
03 21 16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	10.05		
		For Up To 100, Add	5.43		
		For >100 To 200, Add	2.81		
		For >200 To 300, Add	1.41		
03 21 16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	14.18		
		For Up To 100, Add	7.73		
		For >100 To 200, Add	3.99		
		For >200 To 300, Add	2.00		
03 21 16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	24.69		
		For Up To 100, Add	13.58		
		For >100 To 200, Add	7.00		
		For >200 To 300, Add	3.50		
03 21 16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.29		
		For Up To 100, Add	2.74		
		For >100 To 200, Add	1.42		
		For >200 To 500, Add	0.57		
03 21 16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.36		
		For Up To 100, Add	2.82		
		For >100 To 200, Add	1.58		
		For >200 To 400, Add	0.76		
03 21 16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.55		
		For Up To 100, Add	3.63		
		For >100 To 200, Add	2.02		
		For >200 To 400, Add	0.98		
03 21 16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.94		
		For Up To 100, Add	4.59		
		For >100 To 200, Add	2.54		
		For >200 To 400, Add	1.23		



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0165 LF #10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.61	
For Up To 100, Add	4.63	
For >100 To 200, Add	2.40	
For >200 To 300, Add	1.20	
03 21 16 00-0166 LF #11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	10.43	
For Up To 100, Add	5.66	
For >100 To 200, Add	2.93	
For >200 To 300, Add	1.46	
03 21 16 00-0167 LF #14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	14.73	
For Up To 100, Add	8.06	
For >100 To 200, Add	4.16	
For >200 To 300, Add	2.08	
03 21 16 00-0168 LF #18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	25.66	
For Up To 100, Add	14.16	
For >100 To 200, Add	7.29	
For >200 To 300, Add	3.64	

03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)

Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete, 05 05 19 00-0181 for chemical adhesive.

03 21 16 00-0170 EA 3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	6.04	
For Up To 12" Length, Deduct	-0.64	
For >12" To <24" Length, Deduct	-0.32	
03 21 16 00-0171 EA 1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.16	
For Up To 12" Length, Deduct	-0.97	
For >12" To <24" Length, Deduct	-0.49	
03 21 16 00-0172 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	8.92	
For Up To 12" Length, Deduct	-1.45	
For >12" To <24" Length, Deduct	-0.72	
03 21 16 00-0173 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	11.11	
For Up To 12" Length, Deduct	-1.92	
For >12" To <24" Length, Deduct	-0.96	
03 21 16 00-0174 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	13.43	
For Up To 12" Length, Deduct	-2.62	
For >12" To <24" Length, Deduct	-1.31	
03 21 16 00-0175 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	15.65	
For Up To 12" Length, Deduct	-3.22	
For >12" To <24" Length, Deduct	-1.61	
03 21 16 00-0176 EA 1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	18.50	
For Up To 12" Length, Deduct	-3.90	
For >12" To <24" Length, Deduct	-1.95	
03 21 16 00-0177 EA 1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	22.27	
For Up To 12" Length, Deduct	-4.73	
For >12" To <24" Length, Deduct	-2.36	

03 21 16 00-0178 Epoxy Coated Deformed Straight Dowel Assemblies (03 21 16)

Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar

03 21 16 00-0179 EA 3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly.....	60.07	
Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar		
03 21 16 00-0180 EA 1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly.....	67.71	
Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar		
03 21 16 00-0181 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly.....	75.79	
Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar		
03 21 16 00-0182 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly.....	88.45	
Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar		
03 21 16 00-0183 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly.....	96.27	
Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar		
03 21 16 00-0184 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel Assembly.....	115.25	
Note: Includes horizontal drilling in concrete to 12" depth, placement of epoxy in hole, and rebar		

03 22 Fabric and Grid Reinforcing (03 20)

03 22 11 Plain Steel Welded Wire Fabric Reinforcing (03 22)

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

03 22 11 00-0001 Welded Wire Fabric Placed In Floors Or Slabs Under 5 Tons (03 22 11)

Note: Includes bar chairs. Under 5 tons. ASTM A-185

03 22 11 00-0002 SF 6" x 6" x #10, (W1.4 x W1.4), 21 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	0.91	
For >5 Ton, Deduct	-0.14	
03 22 11 00-0003 SF 6" x 6" x #8, (W2.1 x W2.1), 30 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.05	
For >5 Ton, Deduct	-0.16	
03 22 11 00-0004 SF 6" x 6" x #6, (W2.9 x W2.9), 42 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.19	
For >5 Ton, Deduct	-0.18	
03 22 11 00-0005 SF 6" x 6" x #4, (W4.0 x W4.0), 58 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.40	
For >5 Ton, Deduct	-0.20	
03 22 11 00-0006 SF 4" x 4" x #10, (W1.4 x W1.4), 31 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.10	
For >5 Ton, Deduct	-0.16	
03 22 11 00-0007 SF 4" x 4" x #8, (W2.1 x W2.1), 44 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.23	
For >5 Ton, Deduct	-0.18	
03 22 11 00-0008 SF 4" x 4" x #6, (W2.9 x W2.9), 62 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.54	
For >5 Ton, Deduct	-0.21	

03 Concrete**03 20 Concrete Reinforcing****03 22 Fabric and Grid Reinforcing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 22 11 00-0009	SF	4" x 4" x #4, (W4.0 x W4.0), 85 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.80		
		<i>For >5 Ton, Deduct</i>	-0.25		
03 22 11 00-0010	SF	2" x 2" x #12, (W0.9 x W0.9), 37 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.68		
		<i>For >5 Ton, Deduct</i>	-0.22		
03 22 11 00-0011	SF	2" x 2" x #10, (W1.4 x W1.4), 60 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	2.31		
		<i>For >5 Ton, Deduct</i>	-0.29		
		<i>For Galvanized, Add</i>	0.58		
		<i>For Epoxy Coated, Add</i>	1.15		
03 22 11 00-0012	SF	2" x 2" x #8, (W2.1 x W2.1), 88 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	3.10		
		<i>For >5 Ton, Deduct</i>	-0.38		

03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)**03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)**

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002	SF	6" x 6" x #10, (W1.4 x W1.4), 21 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.01		
		<i>For >5 Ton, Deduct</i>	-0.15		
03 22 13 00-0003	SF	6" x 6" x #8, (W2.1 x W2.1), 29 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.17		
		<i>For >5 Ton, Deduct</i>	-0.17		
03 22 13 00-0004	SF	6" x 6" x #6, (W2.9 x W2.9), 42 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.34		
		<i>For >5 Ton, Deduct</i>	-0.19		
03 22 13 00-0005	SF	6" x 6" x #4, (W4.0 x W4.0), 58 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.62		
		<i>For >5 Ton, Deduct</i>	-0.22		
03 22 13 00-0006	SF	4" x 4" x #10, (W1.4 x W1.4), 31 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.23		
		<i>For >5 Ton, Deduct</i>	-0.18		
03 22 13 00-0007	SF	4" x 4" x #8, (W2.1 x W2.1), 43 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.40		
		<i>For >5 Ton, Deduct</i>	-0.20		
03 22 13 00-0008	SF	4" x 4" x #6, (W2.9 x W2.9), 62 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.82		
		<i>For >5 Ton, Deduct</i>	-0.24		
03 22 13 00-0009	SF	4" x 4" x #4, (W4.0 x W4.0), 85 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	2.15		
		<i>For >5 Ton, Deduct</i>	-0.28		

03 22 13 00-0010 Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns (03 22 13)

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0011	SF	2" x 2" x #14, (W0.5 x W0.5), 21 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns.....	3.58		
		<i>For >5 Ton, Deduct</i>	-0.56		

03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing (03 22)**03 22 16 00-0001 Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 16)**

Note: Includes bar chairs. Under 5 tons.

03 22 16 00-0002	SF	6" x 6" x #10, (W1.4 x W1.4), 21 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.00		
		<i>For >5 Ton, Deduct</i>	-0.15		
03 22 16 00-0003	SF	6" x 6" x #8, (W2.1 x W2.1), 29 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.15		
		<i>For >5 Ton, Deduct</i>	-0.17		
03 22 16 00-0004	SF	6" x 6" x #6, (W2.9 x W2.9), 42 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.32		
		<i>For >5 Ton, Deduct</i>	-0.19		
03 22 16 00-0005	SF	6" x 6" x #4, (W4.0 x W4.0), 58 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.59		
		<i>For >5 Ton, Deduct</i>	-0.22		
03 22 16 00-0006	SF	4" x 4" x #10, (W1.4 x W1.4), 31 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.22		
		<i>For >5 Ton, Deduct</i>	-0.17		
03 22 16 00-0007	SF	4" x 4" x #8, (W2.1 x W2.1), 43 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.38		
		<i>For >5 Ton, Deduct</i>	-0.19		
03 22 16 00-0008	SF	4" x 4" x #6, (W2.9 x W2.9), 62 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	1.78		
		<i>For >5 Ton, Deduct</i>	-0.24		
03 22 16 00-0009	SF	4" x 4" x #4, (W4.0 x W4.0), 85 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	2.11		
		<i>For >5 Ton, Deduct</i>	-0.28		

03 30 Cast-In-Place Concrete (03)

See CSI section 01 74 19 00-0043 for hauling over 15 miles.

03 30 53 Miscellaneous Cast-in-Place Concrete (03 30)**03 30 53 00-0001 Place Concrete Duct Bank (03 30 53)**



Concrete		03	CS
Cast-In-Place Concrete		03 30	
Miscellaneous Cast-in-Place Concrete		03 30 53	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 30 53 00-0002	CY Direct Chute, Place 3,000 PSI Concrete Duct Bank	215.17		
	For 2,000 PSI Concrete, Deduct	-9.55		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.69		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.77		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.69		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	15.29		
	For >20 To 50, Add	5.73		
	For >100 To 200, Deduct	-4.30		
	For >200 To 400, Deduct	-8.61		
	For >400, Deduct	-12.91		
03 30 53 00-0003	Place Concrete Thrust Blocks And Backfill (03 30 53)			
03 30 53 00-0004	CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	263.27		
	For 2,000 PSI Concrete, Deduct	-9.56		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.70		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.78		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.70		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
03 30 53 00-0005	Place Concrete Slurry (03 30 53)			
03 30 53 00-0006	CY Direct Chute, Place Two Sack Cement, Concrete Slurry	200.53		
	Note: Two 94# sack cement per CY.			
03 30 53 00-0007	CY Concrete Pump, Place Two Sack Cement, Concrete Slurry	192.92		
	Note: Two 94# sack cement per CY. Excludes pumping equipment.			
03 30 53 00-0008	Hand Mix And Place Concrete (03 30 53)			
03 30 53 00-0009	CF Hand Mix And Place 3,000 PSI Concrete	21.72		
	Note: For use where conventional equipment access is limited or when directed by the owner. Includes local aggregate, sand, bagged cement (Type I) and water.			
	For Up To 25 CF, Add	2.55		
	For 2,000 PSI Concrete, Deduct	-0.41		
	For 2,500 PSI Concrete, Deduct	-0.20		
	For 3,500 PSI Concrete, Add	0.38		

03 31 Structural Concrete (03 30)

03 31 13 Heavyweight Structural Concrete (03 31)

Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 31 13 00-0086 for small concrete purchases (short load), 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.

03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)

03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)

Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
03 31 13 00-0003	SF	4" 3,000 PSI Slab On Grade Concrete Slab Assembly.....		8.65	
		For 2,000 PSI Concrete, Deduct		-0.23	
		For 2,500 PSI Concrete, Deduct		-0.12	
		For 3,500 PSI Concrete, Add		0.08	
		For 4,000 PSI Concrete, Add		0.27	
		For 4,500 PSI Concrete, Add		0.34	
		For 5,000 PSI Concrete, Add		0.39	
		For Reinforcing Rods Are At 18" On Center, Deduct		-0.54	
		For Reinforcing Rods Are At 24" On Center, Deduct		-0.80	
		For Up To 500, Add		3.47	
		For >500 To 1,000, Add		2.39	
		For >1,000 To 2,000, Add		1.30	
		For >2,000 To 5,000, Add		0.65	
		For >10,000 To 20,000, Deduct		-0.21	
		For >20,000 To 35,000, Deduct		-0.43	
		For >35,000 To 50,000, Deduct		-0.65	
		For >50,000 To 70,000, Deduct		-0.86	
		For >70,000, Deduct		-1.08	
03 31 13 00-0004	SF	5" 3,000 PSI Slab On Grade Concrete Slab Assembly.....		9.45	
		For 2,000 PSI Concrete, Deduct		-0.26	
		For 2,500 PSI Concrete, Deduct		-0.13	
		For 3,500 PSI Concrete, Add		0.09	
		For 4,000 PSI Concrete, Add		0.31	
		For 4,500 PSI Concrete, Add		0.39	
		For 5,000 PSI Concrete, Add		0.44	
		For Reinforcing Rods Are At 18" On Center, Deduct		-0.54	
		For Reinforcing Rods Are At 24" On Center, Deduct		-0.80	
		For Up To 500, Add		3.72	
		For >500 To 1,000, Add		2.56	
		For >1,000 To 2,000, Add		1.40	
		For >2,000 To 5,000, Add		0.70	
		For >10,000 To 20,000, Deduct		-0.24	
		For >20,000 To 35,000, Deduct		-0.48	
		For >35,000 To 50,000, Deduct		-0.72	
		For >50,000 To 70,000, Deduct		-0.95	
		For >70,000, Deduct		-1.19	
03 31 13 00-0005	SF	6" 3,000 PSI Slab On Grade Concrete Slab Assembly.....		10.57	
		For 2,000 PSI Concrete, Deduct		-0.31	
		For 2,500 PSI Concrete, Deduct		-0.15	
		For 3,500 PSI Concrete, Add		0.11	
		For 4,000 PSI Concrete, Add		0.36	
		For 4,500 PSI Concrete, Add		0.45	
		For 5,000 PSI Concrete, Add		0.52	
		For Reinforcing Rods Are At 18" On Center, Deduct		-0.54	
		For Reinforcing Rods Are At 24" On Center, Deduct		-0.80	
		For Up To 500, Add		4.06	
		For >500 To 1,000, Add		2.80	
		For >1,000 To 2,000, Add		1.54	
		For >2,000 To 5,000, Add		0.77	
		For >10,000 To 20,000, Deduct		-0.29	
		For >20,000 To 35,000, Deduct		-0.55	
		For >35,000 To 50,000, Deduct		-0.81	
		For >50,000 To 70,000, Deduct		-1.08	
		For >70,000, Deduct		-1.34	
03 31 13 00-0006	SF	7" 3,000 PSI Slab On Grade Concrete Slab Assembly.....		11.64	
		For 2,000 PSI Concrete, Deduct		-0.35	
		For 2,500 PSI Concrete, Deduct		-0.18	
		For 3,500 PSI Concrete, Add		0.12	
		For 4,000 PSI Concrete, Add		0.41	
		For 4,500 PSI Concrete, Add		0.52	
		For 5,000 PSI Concrete, Add		0.60	
		For Reinforcing Rods Are At 18" On Center, Deduct		-0.54	
		For Reinforcing Rods Are At 24" On Center, Deduct		-0.80	
		For Up To 500, Add		4.36	
		For >500 To 1,000, Add		3.02	
		For >1,000 To 2,000, Add		1.67	
		For >2,000 To 5,000, Add		0.84	
		For >10,000 To 20,000, Deduct		-0.33	
		For >20,000 To 35,000, Deduct		-0.62	
		For >35,000 To 50,000, Deduct		-0.91	
		For >50,000 To 70,000, Deduct		-1.20	
		For >70,000, Deduct		-1.49	



Concrete		03	CS
Cast-In-Place Concrete		03 30	
Structural Concrete		03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0007 SF 8" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	12.55	
For 2,000 PSI Concrete, Deduct	-0.39	
For 2,500 PSI Concrete, Deduct	-0.20	
For 3,500 PSI Concrete, Add	0.14	
For 4,000 PSI Concrete, Add	0.46	
For 4,500 PSI Concrete, Add	0.57	
For 5,000 PSI Concrete, Add	0.66	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.54	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.80	
For Up To 500, Add	4.63	
For >500 To 1,000, Add	3.21	
For >1,000 To 2,000, Add	1.78	
For >2,000 To 5,000, Add	0.89	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000 To 35,000, Deduct	-0.68	
For >35,000 To 50,000, Deduct	-0.99	
For >50,000 To 70,000, Deduct	-1.30	
For >70,000, Deduct	-1.62	
03 31 13 00-0008 SF 10" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	14.87	
For 2,000 PSI Concrete, Deduct	-0.50	
For 2,500 PSI Concrete, Deduct	-0.25	
For 3,500 PSI Concrete, Add	0.17	
For 4,000 PSI Concrete, Add	0.58	
For 4,500 PSI Concrete, Add	0.73	
For 5,000 PSI Concrete, Add	0.84	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.54	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.80	
For Up To 500, Add	5.25	
For >500 To 1,000, Add	3.65	
For >1,000 To 2,000, Add	2.06	
For >2,000 To 5,000, Add	1.03	
For >10,000 To 20,000, Deduct	-0.46	
For >20,000 To 35,000, Deduct	-0.83	
For >35,000 To 50,000, Deduct	-1.20	
For >50,000 To 70,000, Deduct	-1.57	
For >70,000, Deduct	-1.95	
03 31 13 00-0009 SF 12" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	16.67	
For 2,000 PSI Concrete, Deduct	-0.57	
For 2,500 PSI Concrete, Deduct	-0.29	
For 3,500 PSI Concrete, Add	0.20	
For 4,000 PSI Concrete, Add	0.67	
For 4,500 PSI Concrete, Add	0.84	
For 5,000 PSI Concrete, Add	0.96	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.54	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.80	
For Up To 500, Add	5.77	
For >500 To 1,000, Add	4.03	
For >1,000 To 2,000, Add	2.28	
For >2,000 To 5,000, Add	1.14	
For >10,000 To 20,000, Deduct	-0.53	
For >20,000 To 35,000, Deduct	-0.95	
For >35,000 To 50,000, Deduct	-1.36	
For >50,000 To 70,000, Deduct	-1.78	
For >70,000, Deduct	-2.20	
03 31 13 00-0010 Concrete Delivery And Placement ^(03 31 13)		
Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.		
03 31 13 00-0011 Place Concrete By Method Indicated ^(03 31 13 00-0010)		
Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0012 Place Concrete Pile Caps ^(03 31 13 00-0011)		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	321.55	
For 2,000 PSI Concrete, Deduct	-9.56	
For 2,500 PSI Concrete, Deduct	-4.78	
For 3,500 PSI Concrete, Add	8.85	
For 3,750 PSI Concrete, Add	12.03	
For 4,000 PSI Concrete, Add	15.22	
For 4,500 PSI Concrete, Add	17.70	
For 5,000 PSI Concrete, Add	20.17	
For 6,000 PSI Concrete, Add	47.78	
For 7,500 PSI Concrete, Add	118.64	
For White Cement Concrete, Add	21.23	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
For High Early Strength, Type 3 ASTM C150, Add	17.70	
For Lightweight Aggregate, ASTM C330, Add	61.93	
For Up To 20, Add	57.84	
For >20 To 50, Add	21.69	
For >100 To 200, Deduct	-6.43	
For >200 To 400, Deduct	-12.86	
For >400, Deduct	-19.29	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0014	CY	Direct Chute, Place 3,000 PSI Concrete Pile Caps	240.42	
		For 2,000 PSI Concrete, Deduct	-9.56	
		For 2,500 PSI Concrete, Deduct	-4.78	
		For 3,500 PSI Concrete, Add	8.85	
		For 3,750 PSI Concrete, Add	12.03	
		For 4,000 PSI Concrete, Add	15.22	
		For 4,500 PSI Concrete, Add	17.70	
		For 5,000 PSI Concrete, Add	20.17	
		For 6,000 PSI Concrete, Add	47.78	
		For 7,500 PSI Concrete, Add	118.64	
		For White Cement Concrete, Add	21.23	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
		For High Early Strength, Type 3 ASTM C150, Add	17.70	
		For Lightweight Aggregate, ASTM C330, Add	61.93	
		For Up To 20, Add	25.39	
		For >20 To 50, Add	9.52	
		For >100 To 200, Deduct	-4.81	
		For >200 To 400, Deduct	-9.62	
		For >400, Deduct	-14.43	
03 31 13 00-0015	CY	Concrete Pump, Place 3,000 PSI Concrete Pile Caps.....	252.14	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-10.35	
		For 2,500 PSI Concrete, Deduct	-5.18	
		For 3,500 PSI Concrete, Add	9.58	
		For 3,750 PSI Concrete, Add	13.03	
		For 4,000 PSI Concrete, Add	16.49	
		For 4,500 PSI Concrete, Add	19.17	
		For 5,000 PSI Concrete, Add	21.85	
		For 6,000 PSI Concrete, Add	51.76	
		For 7,500 PSI Concrete, Add	128.53	
		For White Cement Concrete, Add	23.00	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
		For High Early Strength, Type 3 ASTM C150, Add	19.17	
		For Lightweight Aggregate, ASTM C330, Add	67.09	
		For Up To 20, Add	24.18	
		For >20 To 50, Add	9.07	
		For >100 To 200, Deduct	-5.04	
		For >200 To 400, Deduct	-10.09	
		For >400, Deduct	-15.13	

03 31 13 00-0016 Place Concrete Continuous Footings (03 31 13 00-0011)

03 31 13 00-0017	CY	Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	305.48	
		For 2,000 PSI Concrete, Deduct	-9.56	
		For 2,500 PSI Concrete, Deduct	-4.78	
		For 3,500 PSI Concrete, Add	8.85	
		For 3,750 PSI Concrete, Add	12.03	
		For 4,000 PSI Concrete, Add	15.22	
		For 4,500 PSI Concrete, Add	17.70	
		For 5,000 PSI Concrete, Add	20.17	
		For 6,000 PSI Concrete, Add	47.78	
		For 7,500 PSI Concrete, Add	118.64	
		For White Cement Concrete, Add	21.23	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
		For High Early Strength, Type 3 ASTM C150, Add	17.70	
		For Lightweight Aggregate, ASTM C330, Add	61.93	
		For Up To 20, Add	51.41	
		For >20 To 50, Add	19.28	
		For >100 To 200, Deduct	-6.11	
		For >200 To 400, Deduct	-12.22	
		For >400, Deduct	-18.33	
03 31 13 00-0018	CY	Direct Chute, Place 3,000 PSI Concrete Continuous Footings	233.36	
		For 2,000 PSI Concrete, Deduct	-9.55	
		For 2,500 PSI Concrete, Deduct	-4.78	
		For 3,500 PSI Concrete, Add	8.85	
		For 3,750 PSI Concrete, Add	12.03	
		For 4,000 PSI Concrete, Add	15.22	
		For 4,500 PSI Concrete, Add	17.69	
		For 5,000 PSI Concrete, Add	20.17	
		For 6,000 PSI Concrete, Add	47.77	
		For 7,500 PSI Concrete, Add	118.64	
		For White Cement Concrete, Add	21.23	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
		For High Early Strength, Type 3 ASTM C150, Add	17.69	
		For Lightweight Aggregate, ASTM C330, Add	61.93	
		For Up To 20, Add	22.57	
		For >20 To 50, Add	8.46	
		For >100 To 200, Deduct	-4.67	
		For >200 To 400, Deduct	-9.33	
		For >400, Deduct	-14.00	



	Concrete	03	
	Cast-In-Place Concrete	03 30	
	Structural Concrete	03 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0019	CY		Concrete Pump, Place 3,000 PSI Concrete Continuous Footings Note: Excludes pumping equipment.	245.42	
			For 2,000 PSI Concrete, Deduct	-10.35	
			For 2,500 PSI Concrete, Deduct	-5.18	
			For 3,500 PSI Concrete, Add	9.58	
			For 3,750 PSI Concrete, Add	13.03	
			For 4,000 PSI Concrete, Add	16.49	
			For 4,500 PSI Concrete, Add	19.17	
			For 5,000 PSI Concrete, Add	21.85	
			For 6,000 PSI Concrete, Add	51.76	
			For 7,500 PSI Concrete, Add	128.53	
			For White Cement Concrete, Add	23.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
			For High Early Strength, Type 3 ASTM C150, Add	19.17	
			For Lightweight Aggregate, ASTM C330, Add	67.09	
			For Up To 20, Add	21.49	
			For >20 To 50, Add	8.06	
			For >100 To 200, Deduct	-4.91	
			For >200 To 400, Deduct	-9.82	
			For >400, Deduct	-14.73	
03 31 13 00-0020			Place Concrete Spread Footings (03 31 13 00-0011)		
03 31 13 00-0021	CY		Crane And Bucket, Place 3,000 PSI Concrete Spread Footings For 2,000 PSI Concrete, Deduct	393.83	
			For 2,500 PSI Concrete, Deduct	-9.55	
			For 3,500 PSI Concrete, Add	-4.78	
			For 3,750 PSI Concrete, Add	8.85	
			For 4,000 PSI Concrete, Add	12.03	
			For 4,500 PSI Concrete, Add	15.22	
			For 5,000 PSI Concrete, Add	17.69	
			For 6,000 PSI Concrete, Add	20.17	
			For 7,500 PSI Concrete, Add	47.77	
			For White Cement Concrete, Add	118.64	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.23	
			For High Early Strength, Type 3 ASTM C150, Add	23.00	
			For Lightweight Aggregate, ASTM C330, Add	17.69	
			For Up To 20, Add	61.93	
			For >20 To 50, Add	86.76	
			For >100 To 200, Deduct	32.53	
			For >200 To 400, Deduct	-7.88	
			For >400, Deduct	-15.75	
03 31 13 00-0022	CY		Direct Chute, Place 3,000 PSI Concrete Spread Footings For 2,000 PSI Concrete, Deduct	272.15	
			For 2,500 PSI Concrete, Deduct	-9.55	
			For 3,500 PSI Concrete, Add	-4.78	
			For 3,750 PSI Concrete, Add	8.85	
			For 4,000 PSI Concrete, Add	12.03	
			For 4,500 PSI Concrete, Add	15.22	
			For 5,000 PSI Concrete, Add	17.69	
			For 6,000 PSI Concrete, Add	20.17	
			For 7,500 PSI Concrete, Add	47.77	
			For White Cement Concrete, Add	118.64	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.23	
			For High Early Strength, Type 3 ASTM C150, Add	23.00	
			For Lightweight Aggregate, ASTM C330, Add	17.69	
			For Up To 20, Add	61.93	
			For >20 To 50, Add	38.08	
			For >100 To 200, Deduct	14.28	
			For >200 To 400, Deduct	-5.44	
			For >400, Deduct	-10.89	
03 31 13 00-0023	CY		Concrete Pump, Place 3,000 PSI Concrete Spread Footings Note: Excludes pumping equipment.	282.36	
			For 2,000 PSI Concrete, Deduct	-10.35	
			For 2,500 PSI Concrete, Deduct	-5.18	
			For 3,500 PSI Concrete, Add	9.58	
			For 3,750 PSI Concrete, Add	13.03	
			For 4,000 PSI Concrete, Add	16.49	
			For 4,500 PSI Concrete, Add	19.17	
			For 5,000 PSI Concrete, Add	21.85	
			For 6,000 PSI Concrete, Add	51.76	
			For 7,500 PSI Concrete, Add	128.53	
			For White Cement Concrete, Add	23.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
			For High Early Strength, Type 3 ASTM C150, Add	19.17	
			For Lightweight Aggregate, ASTM C330, Add	67.09	
			For Up To 20, Add	36.27	
			For >20 To 50, Add	13.60	
			For >100 To 200, Deduct	-5.65	
			For >200 To 400, Deduct	-11.29	
			For >400, Deduct	-16.94	
03 31 13 00-0024			Place Concrete Mat Foundation (03 31 13 00-0011)		

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0025	CY		Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	215.50	
			For 2,000 PSI Concrete, Deduct	-9.55	
			For 2,500 PSI Concrete, Deduct	-4.78	
			For 3,500 PSI Concrete, Add	8.85	
			For 3,750 PSI Concrete, Add	12.03	
			For 4,000 PSI Concrete, Add	15.22	
			For 4,500 PSI Concrete, Add	17.69	
			For 5,000 PSI Concrete, Add	20.17	
			For 6,000 PSI Concrete, Add	47.77	
			For 7,500 PSI Concrete, Add	118.64	
			For White Cement Concrete, Add	21.23	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
			For High Early Strength, Type 3 ASTM C150, Add	17.69	
			For Lightweight Aggregate, ASTM C330, Add	61.93	
			For Up To 20, Add	15.42	
			For >20 To 50, Add	5.78	
			For >100 To 200, Deduct	-4.31	
			For >200 To 400, Deduct	-8.62	
			For >400, Deduct	-12.93	
03 31 13 00-0026	CY		Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	193.87	
			For 2,000 PSI Concrete, Deduct	-9.55	
			For 2,500 PSI Concrete, Deduct	-4.78	
			For 3,500 PSI Concrete, Add	8.85	
			For 3,750 PSI Concrete, Add	12.03	
			For 4,000 PSI Concrete, Add	15.22	
			For 4,500 PSI Concrete, Add	17.69	
			For 5,000 PSI Concrete, Add	20.17	
			For 6,000 PSI Concrete, Add	47.77	
			For 7,500 PSI Concrete, Add	118.64	
			For White Cement Concrete, Add	21.23	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
			For High Early Strength, Type 3 ASTM C150, Add	17.69	
			For Lightweight Aggregate, ASTM C330, Add	61.93	
			For Up To 20, Add	6.77	
			For >20 To 50, Add	2.54	
			For >100 To 200, Deduct	-3.88	
			For >200 To 400, Deduct	-7.75	
			For >400, Deduct	-11.63	
03 31 13 00-0027	CY		Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	205.79	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-10.35	
			For 2,500 PSI Concrete, Deduct	-5.18	
			For 3,500 PSI Concrete, Add	9.58	
			For 3,750 PSI Concrete, Add	13.03	
			For 4,000 PSI Concrete, Add	16.49	
			For 4,500 PSI Concrete, Add	19.17	
			For 5,000 PSI Concrete, Add	21.85	
			For 6,000 PSI Concrete, Add	51.76	
			For 7,500 PSI Concrete, Add	128.53	
			For White Cement Concrete, Add	23.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
			For High Early Strength, Type 3 ASTM C150, Add	19.17	
			For Lightweight Aggregate, ASTM C330, Add	67.09	
			For Up To 20, Add	5.64	
			For >20 To 50, Add	2.12	
			For >100 To 200, Deduct	-4.12	
			For >200 To 400, Deduct	-8.23	
			For >400, Deduct	-12.35	
03 31 13 00-0028			Place Concrete Grade Beams (03 31 13 00-0011)		
03 31 13 00-0029	CY		Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	279.78	
			For 2,000 PSI Concrete, Deduct	-9.56	
			For 2,500 PSI Concrete, Deduct	-4.78	
			For 3,500 PSI Concrete, Add	8.85	
			For 3,750 PSI Concrete, Add	12.03	
			For 4,000 PSI Concrete, Add	15.22	
			For 4,500 PSI Concrete, Add	17.70	
			For 5,000 PSI Concrete, Add	20.17	
			For 6,000 PSI Concrete, Add	47.78	
			For 7,500 PSI Concrete, Add	118.64	
			For White Cement Concrete, Add	21.23	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
			For High Early Strength, Type 3 ASTM C150, Add	17.70	
			For Lightweight Aggregate, ASTM C330, Add	61.93	
			For Up To 20, Add	41.13	
			For >20 To 50, Add	15.42	
			For >100 To 200, Deduct	-5.60	
			For >200 To 400, Deduct	-11.19	
			For >400, Deduct	-16.79	



Concrete		03	CS
Cast-In-Place Concrete		03 30	
Structural Concrete		03 31	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 31 13 00-0030	CY Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	222.07		
	For 2,000 PSI Concrete, Deduct	-9.55		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.69		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.77		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.69		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	18.05		
	For >20 To 50, Add	6.77		
	For >100 To 200, Deduct	-4.44		
	For >200 To 400, Deduct	-8.88		
	For >400, Deduct	-13.32		
03 31 13 00-0031	CY Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	234.68		
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct	-10.35		
	For 2,500 PSI Concrete, Deduct	-5.18		
	For 3,500 PSI Concrete, Add	9.58		
	For 3,750 PSI Concrete, Add	13.03		
	For 4,000 PSI Concrete, Add	16.49		
	For 4,500 PSI Concrete, Add	19.17		
	For 5,000 PSI Concrete, Add	21.85		
	For 6,000 PSI Concrete, Add	51.76		
	For 7,500 PSI Concrete, Add	128.53		
	For White Cement Concrete, Add	23.00		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92		
	For High Early Strength, Type 3 ASTM C150, Add	19.17		
	For Lightweight Aggregate, ASTM C330, Add	67.09		
	For Up To 20, Add	17.20		
	For >20 To 50, Add	6.45		
	For >100 To 200, Deduct	-4.69		
	For >200 To 400, Deduct	-9.39		
	For >400, Deduct	-14.08		
03 31 13 00-0032	Place Concrete Slab On Grade (03 31 13 00-0011)			
03 31 13 00-0033	CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	282.18		
	For 2,000 PSI Concrete, Deduct	-9.55		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.69		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.77		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.69		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	42.10		
	For >20 To 50, Add	15.79		
	For >100 To 200, Deduct	-5.64		
	For >200 To 400, Deduct	-11.29		
	For >400, Deduct	-16.93		
03 31 13 00-0034	CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	256.80		
	For 2,000 PSI Concrete, Deduct	-9.55		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.69		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.77		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.69		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	31.94		
	For >20 To 50, Add	11.98		
	For >100 To 200, Deduct	-5.14		
	For >200 To 400, Deduct	-10.27		
	For >400, Deduct	-15.41		

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0035	CY		Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	223.13	
			For 2,000 PSI Concrete, Deduct	-9.55	
			For 2,500 PSI Concrete, Deduct	-4.78	
			For 3,500 PSI Concrete, Add	8.85	
			For 3,750 PSI Concrete, Add	12.03	
			For 4,000 PSI Concrete, Add	15.22	
			For 4,500 PSI Concrete, Add	17.69	
			For 5,000 PSI Concrete, Add	20.17	
			For 6,000 PSI Concrete, Add	47.77	
			For 7,500 PSI Concrete, Add	118.64	
			For White Cement Concrete, Add	21.23	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
			For High Early Strength, Type 3 ASTM C150, Add	17.69	
			For Lightweight Aggregate, ASTM C330, Add	61.93	
			For Up To 20, Add	18.48	
			For >20 To 50, Add	6.93	
			For >100 To 200, Deduct	-4.46	
			For >200 To 400, Deduct	-8.93	
			For >400, Deduct	-13.39	
03 31 13 00-0036	CY		>6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	211.99	
			For 2,000 PSI Concrete, Deduct	-9.55	
			For 2,500 PSI Concrete, Deduct	-4.78	
			For 3,500 PSI Concrete, Add	8.85	
			For 3,750 PSI Concrete, Add	12.03	
			For 4,000 PSI Concrete, Add	15.22	
			For 4,500 PSI Concrete, Add	17.69	
			For 5,000 PSI Concrete, Add	20.17	
			For 6,000 PSI Concrete, Add	47.77	
			For 7,500 PSI Concrete, Add	118.64	
			For White Cement Concrete, Add	21.23	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
			For High Early Strength, Type 3 ASTM C150, Add	17.69	
			For Lightweight Aggregate, ASTM C330, Add	61.93	
			For Up To 20, Add	14.02	
			For >20 To 50, Add	5.26	
			For >100 To 200, Deduct	-4.24	
			For >200 To 400, Deduct	-8.48	
			For >400, Deduct	-12.72	
03 31 13 00-0037	CY		Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	230.19	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-10.35	
			For 2,500 PSI Concrete, Deduct	-5.18	
			For 3,500 PSI Concrete, Add	9.58	
			For 3,750 PSI Concrete, Add	13.03	
			For 4,000 PSI Concrete, Add	16.49	
			For 4,500 PSI Concrete, Add	19.17	
			For 5,000 PSI Concrete, Add	21.85	
			For 6,000 PSI Concrete, Add	51.76	
			For 7,500 PSI Concrete, Add	128.53	
			For White Cement Concrete, Add	23.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
			For High Early Strength, Type 3 ASTM C150, Add	19.17	
			For Lightweight Aggregate, ASTM C330, Add	67.09	
			For Up To 20, Add	15.40	
			For >20 To 50, Add	5.78	
			For >100 To 200, Deduct	-4.60	
			For >200 To 400, Deduct	-9.21	
			For >400, Deduct	-13.81	
03 31 13 00-0038	CY		>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	220.90	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-10.35	
			For 2,500 PSI Concrete, Deduct	-5.18	
			For 3,500 PSI Concrete, Add	9.58	
			For 3,750 PSI Concrete, Add	13.03	
			For 4,000 PSI Concrete, Add	16.49	
			For 4,500 PSI Concrete, Add	19.17	
			For 5,000 PSI Concrete, Add	21.85	
			For 6,000 PSI Concrete, Add	51.76	
			For 7,500 PSI Concrete, Add	128.53	
			For White Cement Concrete, Add	23.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
			For High Early Strength, Type 3 ASTM C150, Add	19.17	
			For Lightweight Aggregate, ASTM C330, Add	67.09	
			For Up To 20, Add	11.68	
			For >20 To 50, Add	4.38	
			For >100 To 200, Deduct	-4.42	
			For >200 To 400, Deduct	-8.84	
			For >400, Deduct	-13.25	

03 31 13 00-0039 Place Concrete Stairs (03 31 13 00-0011)



Concrete		03	CS
Cast-In-Place Concrete		03 30	
Structural Concrete		03 31	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 31 13 00-0040	CY Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	650.46		
	For 2,000 PSI Concrete, Deduct	-9.56		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.70		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.78		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.70		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	189.40		
	For >20 To 50, Add	71.03		
	For >100 To 200, Deduct	-13.01		
	For >200 To 400, Deduct	-26.02		
	For >400, Deduct	-39.03		
03 31 13 00-0041	CY Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	384.81		
	For 2,000 PSI Concrete, Deduct	-9.55		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.69		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.77		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.69		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	83.15		
	For >20 To 50, Add	31.18		
	For >100 To 200, Deduct	-7.70		
	For >200 To 400, Deduct	-15.39		
	For >400, Deduct	-23.09		
03 31 13 00-0042	CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs.....	364.94		
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct	-10.35		
	For 2,500 PSI Concrete, Deduct	-5.18		
	For 3,500 PSI Concrete, Add	9.58		
	For 3,750 PSI Concrete, Add	13.03		
	For 4,000 PSI Concrete, Add	16.49		
	For 4,500 PSI Concrete, Add	19.17		
	For 5,000 PSI Concrete, Add	21.85		
	For 6,000 PSI Concrete, Add	51.76		
	For 7,500 PSI Concrete, Add	128.53		
	For White Cement Concrete, Add	23.00		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92		
	For High Early Strength, Type 3 ASTM C150, Add	19.17		
	For Lightweight Aggregate, ASTM C330, Add	67.09		
	For Up To 20, Add	69.30		
	For >20 To 50, Add	25.99		
	For >100 To 200, Deduct	-7.30		
	For >200 To 400, Deduct	-14.60		
	For >400, Deduct	-21.90		
03 31 13 00-0043	Place Concrete Superstructure By Method Indicated (03 31 13 00-0010)			
	See CSI section 03 37 16 00-0001 for concrete pump truck.			
03 31 13 00-0044	Place Elevated Concrete Beams (03 31 13 00-0043)			
03 31 13 00-0045	CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams	434.00		
	For 2,000 PSI Concrete, Deduct	-9.55		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.69		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.77		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.69		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	102.82		
	For >20 To 50, Add	38.56		
	For >100 To 200, Deduct	-8.68		
	For >200 To 400, Deduct	-17.36		
	For >400, Deduct	-26.04		

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0046	CY	Concrete Pump, Place 3,000 PSI Elevated Concrete Beams.....	299.15	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-10.35	
		For 2,500 PSI Concrete, Deduct	-5.18	
		For 3,500 PSI Concrete, Add	9.58	
		For 3,750 PSI Concrete, Add	13.03	
		For 4,000 PSI Concrete, Add	16.49	
		For 4,500 PSI Concrete, Add	19.17	
		For 5,000 PSI Concrete, Add	21.85	
		For 6,000 PSI Concrete, Add	51.76	
		For 7,500 PSI Concrete, Add	128.53	
		For White Cement Concrete, Add	23.00	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
		For High Early Strength, Type 3 ASTM C150, Add	19.17	
		For Lightweight Aggregate, ASTM C330, Add	67.09	
		For Up To 20, Add	42.98	
		For >20 To 50, Add	16.12	
		For >100 To 200, Deduct	-5.98	
		For >200 To 400, Deduct	-11.97	
		For >400, Deduct	-17.95	
03 31 13 00-0047		Place Elevated Concrete Slab (03 31 13 00-0043).....	297.96	
03 31 13 00-0048	CY	Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	297.96	
		For 2,000 PSI Concrete, Deduct	-9.55	
		For 2,500 PSI Concrete, Deduct	-4.78	
		For 3,500 PSI Concrete, Add	8.85	
		For 3,750 PSI Concrete, Add	12.03	
		For 4,000 PSI Concrete, Add	15.22	
		For 4,500 PSI Concrete, Add	17.69	
		For 5,000 PSI Concrete, Add	20.17	
		For 6,000 PSI Concrete, Add	47.77	
		For 7,500 PSI Concrete, Add	118.64	
		For White Cement Concrete, Add	21.23	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
		For High Early Strength, Type 3 ASTM C150, Add	17.69	
		For Lightweight Aggregate, ASTM C330, Add	61.93	
		For Up To 20, Add	48.41	
		For >20 To 50, Add	18.15	
		For >100 To 200, Deduct	-5.96	
		For >200 To 400, Deduct	-11.92	
		For >400, Deduct	-17.88	
03 31 13 00-0049	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	268.76	
		For 2,000 PSI Concrete, Deduct	-9.55	
		For 2,500 PSI Concrete, Deduct	-4.78	
		For 3,500 PSI Concrete, Add	8.85	
		For 3,750 PSI Concrete, Add	12.03	
		For 4,000 PSI Concrete, Add	15.22	
		For 4,500 PSI Concrete, Add	17.69	
		For 5,000 PSI Concrete, Add	20.17	
		For 6,000 PSI Concrete, Add	47.77	
		For 7,500 PSI Concrete, Add	118.64	
		For White Cement Concrete, Add	21.23	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
		For High Early Strength, Type 3 ASTM C150, Add	17.69	
		For Lightweight Aggregate, ASTM C330, Add	61.93	
		For Up To 20, Add	36.73	
		For >20 To 50, Add	13.77	
		For >100 To 200, Deduct	-5.38	
		For >200 To 400, Deduct	-10.75	
		For >400, Deduct	-16.13	
03 31 13 00-0050	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	242.29	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-10.35	
		For 2,500 PSI Concrete, Deduct	-5.18	
		For 3,500 PSI Concrete, Add	9.58	
		For 3,750 PSI Concrete, Add	13.03	
		For 4,000 PSI Concrete, Add	16.49	
		For 4,500 PSI Concrete, Add	19.17	
		For 5,000 PSI Concrete, Add	21.85	
		For 6,000 PSI Concrete, Add	51.76	
		For 7,500 PSI Concrete, Add	128.53	
		For White Cement Concrete, Add	23.00	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
		For High Early Strength, Type 3 ASTM C150, Add	19.17	
		For Lightweight Aggregate, ASTM C330, Add	67.09	
		For Up To 20, Add	20.24	
		For >20 To 50, Add	7.59	
		For >100 To 200, Deduct	-4.85	
		For >200 To 400, Deduct	-9.69	
		For >400, Deduct	-14.54	



	Concrete	03	
	Cast-In-Place Concrete	03 30	
	Structural Concrete	03 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0051	CY		>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab Note: Excludes pumping equipment.	230.07	
			For 2,000 PSI Concrete, Deduct	-10.35	
			For 2,500 PSI Concrete, Deduct	-5.18	
			For 3,500 PSI Concrete, Add	9.58	
			For 3,750 PSI Concrete, Add	13.03	
			For 4,000 PSI Concrete, Add	16.49	
			For 4,500 PSI Concrete, Add	19.17	
			For 5,000 PSI Concrete, Add	21.85	
			For 6,000 PSI Concrete, Add	51.76	
			For 7,500 PSI Concrete, Add	128.53	
			For White Cement Concrete, Add	23.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
			For High Early Strength, Type 3 ASTM C150, Add	19.17	
			For Lightweight Aggregate, ASTM C330, Add	67.09	
			For Up To 20, Add	15.35	
			For >20 To 50, Add	5.76	
			For >100 To 200, Deduct	-4.60	
			For >200 To 400, Deduct	-9.20	
			For >400, Deduct	-13.80	
03 31 13 00-0052			Place Concrete Columns (03 31 13 00-0043)		
03 31 13 00-0053	CY		12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns For 2,000 PSI Concrete, Deduct For 2,500 PSI Concrete, Deduct For 3,500 PSI Concrete, Add For 3,750 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add For 6,000 PSI Concrete, Add For 7,500 PSI Concrete, Add For White Cement Concrete, Add For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add For High Early Strength, Type 3 ASTM C150, Add For Lightweight Aggregate, ASTM C330, Add For Up To 20, Add For >20 To 50, Add For >100 To 200, Deduct For >200 To 400, Deduct For >400, Deduct	454.58 -9.56 -4.78 8.85 12.03 15.22 17.70 20.17 47.78 118.64 21.23 23.00 17.70 61.93 111.05 41.64 -9.09 -18.18 -27.27	
03 31 13 00-0054	CY		18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns For 2,000 PSI Concrete, Deduct For 2,500 PSI Concrete, Deduct For 3,500 PSI Concrete, Add For 3,750 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add For 6,000 PSI Concrete, Add For 7,500 PSI Concrete, Add For White Cement Concrete, Add For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add For High Early Strength, Type 3 ASTM C150, Add For Lightweight Aggregate, ASTM C330, Add For Up To 20, Add For >20 To 50, Add For >100 To 200, Deduct For >200 To 400, Deduct For >400, Deduct	378.73 -9.55 -4.78 8.85 12.03 15.22 17.69 20.17 47.77 118.64 21.23 23.00 17.69 61.93 80.72 30.27 -7.57 -15.15 -22.72	
03 31 13 00-0055	CY		24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns For 2,000 PSI Concrete, Deduct For 2,500 PSI Concrete, Deduct For 3,500 PSI Concrete, Add For 3,750 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add For 6,000 PSI Concrete, Add For 7,500 PSI Concrete, Add For White Cement Concrete, Add For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add For High Early Strength, Type 3 ASTM C150, Add For Lightweight Aggregate, ASTM C330, Add For Up To 20, Add For >20 To 50, Add For >100 To 200, Deduct For >200 To 400, Deduct For >400, Deduct	324.49 -9.55 -4.78 8.85 12.03 15.22 17.69 20.17 47.77 118.64 21.23 23.00 17.69 61.93 59.02 22.13 -6.49 -12.98 -19.47	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
03 31 13 00-0056	CY	36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	300.34	
		For 2,000 PSI Concrete, Deduct	-9.56	
		For 2,500 PSI Concrete, Deduct	-4.78	
		For 3,500 PSI Concrete, Add	8.85	
		For 3,750 PSI Concrete, Add	12.03	
		For 4,000 PSI Concrete, Add	15.22	
		For 4,500 PSI Concrete, Add	17.70	
		For 5,000 PSI Concrete, Add	20.17	
		For 6,000 PSI Concrete, Add	47.78	
		For 7,500 PSI Concrete, Add	118.64	
		For White Cement Concrete, Add	21.23	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
		For High Early Strength, Type 3 ASTM C150, Add	17.70	
		For Lightweight Aggregate, ASTM C330, Add	61.93	
		For Up To 20, Add	49.36	
		For >20 To 50, Add	18.51	
		For >100 To 200, Deduct	-6.01	
		For >200 To 400, Deduct	-12.01	
		For >400, Deduct	-18.02	
03 31 13 00-0057	CY	12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	307.75	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-10.35	
		For 2,500 PSI Concrete, Deduct	-5.18	
		For 3,500 PSI Concrete, Add	9.58	
		For 3,750 PSI Concrete, Add	13.03	
		For 4,000 PSI Concrete, Add	16.49	
		For 4,500 PSI Concrete, Add	19.17	
		For 5,000 PSI Concrete, Add	21.85	
		For 6,000 PSI Concrete, Add	51.76	
		For 7,500 PSI Concrete, Add	128.53	
		For White Cement Concrete, Add	23.00	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
		For High Early Strength, Type 3 ASTM C150, Add	19.17	
		For Lightweight Aggregate, ASTM C330, Add	67.09	
		For Up To 20, Add	46.42	
		For >20 To 50, Add	17.41	
		For >100 To 200, Deduct	-6.16	
		For >200 To 400, Deduct	-12.31	
		For >400, Deduct	-18.47	
03 31 13 00-0058	CY	18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	276.05	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-10.35	
		For 2,500 PSI Concrete, Deduct	-5.18	
		For 3,500 PSI Concrete, Add	9.58	
		For 3,750 PSI Concrete, Add	13.03	
		For 4,000 PSI Concrete, Add	16.49	
		For 4,500 PSI Concrete, Add	19.17	
		For 5,000 PSI Concrete, Add	21.85	
		For 6,000 PSI Concrete, Add	51.76	
		For 7,500 PSI Concrete, Add	128.53	
		For White Cement Concrete, Add	23.00	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
		For High Early Strength, Type 3 ASTM C150, Add	19.17	
		For Lightweight Aggregate, ASTM C330, Add	67.09	
		For Up To 20, Add	33.74	
		For >20 To 50, Add	12.65	
		For >100 To 200, Deduct	-5.52	
		For >200 To 400, Deduct	-11.04	
		For >400, Deduct	-16.56	
03 31 13 00-0059	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	253.37	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-10.35	
		For 2,500 PSI Concrete, Deduct	-5.18	
		For 3,500 PSI Concrete, Add	9.58	
		For 3,750 PSI Concrete, Add	13.03	
		For 4,000 PSI Concrete, Add	16.49	
		For 4,500 PSI Concrete, Add	19.17	
		For 5,000 PSI Concrete, Add	21.85	
		For 6,000 PSI Concrete, Add	51.76	
		For 7,500 PSI Concrete, Add	128.53	
		For White Cement Concrete, Add	23.00	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
		For High Early Strength, Type 3 ASTM C150, Add	19.17	
		For Lightweight Aggregate, ASTM C330, Add	67.09	
		For Up To 20, Add	24.67	
		For >20 To 50, Add	9.25	
		For >100 To 200, Deduct	-5.07	
		For >200 To 400, Deduct	-10.13	
		For >400, Deduct	-15.20	



		Concrete	03	CS
		Cast-In-Place Concrete	03 30	
		Structural Concrete	03 31	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 31 13 00-0060	CY 36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	243.27		
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct	-10.35		
	For 2,500 PSI Concrete, Deduct	-5.18		
	For 3,500 PSI Concrete, Add	9.58		
	For 3,750 PSI Concrete, Add	13.03		
	For 4,000 PSI Concrete, Add	16.49		
	For 4,500 PSI Concrete, Add	19.17		
	For 5,000 PSI Concrete, Add	21.85		
	For 6,000 PSI Concrete, Add	51.76		
	For 7,500 PSI Concrete, Add	128.53		
	For White Cement Concrete, Add	23.00		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92		
	For High Early Strength, Type 3 ASTM C150, Add	19.17		
	For Lightweight Aggregate, ASTM C330, Add	67.09		
	For Up To 20, Add	20.63		
	For >20 To 50, Add	7.74		
	For >100 To 200, Deduct	-4.87		
	For >200 To 400, Deduct	-9.73		
	For >400, Deduct	-14.60		
03 31 13 00-0061	Place Concrete Walls (03 31 13 00-0043)			
03 31 13 00-0062	CY Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	437.22		
	For 2,000 PSI Concrete, Deduct	-9.55		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.69		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.77		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.69		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	104.11		
	For >20 To 50, Add	39.04		
	For >100 To 200, Deduct	-8.74		
	For >200 To 400, Deduct	-17.49		
	For >400, Deduct	-26.23		
03 31 13 00-0063	CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	415.64		
	For 2,000 PSI Concrete, Deduct	-9.55		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.69		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.77		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.69		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	95.48		
	For >20 To 50, Add	35.81		
	For >100 To 200, Deduct	-8.31		
	For >200 To 400, Deduct	-16.63		
	For >400, Deduct	-24.94		
03 31 13 00-0064	CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	359.14		
	For 2,000 PSI Concrete, Deduct	-9.55		
	For 2,500 PSI Concrete, Deduct	-4.78		
	For 3,500 PSI Concrete, Add	8.85		
	For 3,750 PSI Concrete, Add	12.03		
	For 4,000 PSI Concrete, Add	15.22		
	For 4,500 PSI Concrete, Add	17.69		
	For 5,000 PSI Concrete, Add	20.17		
	For 6,000 PSI Concrete, Add	47.77		
	For 7,500 PSI Concrete, Add	118.64		
	For White Cement Concrete, Add	21.23		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
	For High Early Strength, Type 3 ASTM C150, Add	17.69		
	For Lightweight Aggregate, ASTM C330, Add	61.93		
	For Up To 20, Add	72.88		
	For >20 To 50, Add	27.33		
	For >100 To 200, Deduct	-7.18		
	For >200 To 400, Deduct	-14.37		
	For >400, Deduct	-21.55		

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0065	CY		Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	291.19	
			For 2,000 PSI Concrete, Deduct	-9.55	
			For 2,500 PSI Concrete, Deduct	-4.78	
			For 3,500 PSI Concrete, Add	8.85	
			For 3,750 PSI Concrete, Add	12.03	
			For 4,000 PSI Concrete, Add	15.22	
			For 4,500 PSI Concrete, Add	17.69	
			For 5,000 PSI Concrete, Add	20.17	
			For 6,000 PSI Concrete, Add	47.77	
			For 7,500 PSI Concrete, Add	118.64	
			For White Cement Concrete, Add	21.23	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
			For High Early Strength, Type 3 ASTM C150, Add	17.69	
			For Lightweight Aggregate, ASTM C330, Add	61.93	
			For Up To 20, Add	45.70	
			For >20 To 50, Add	17.14	
			For >100 To 200, Deduct	-5.82	
			For >200 To 400, Deduct	-11.65	
			For >400, Deduct	-17.47	
03 31 13 00-0066	CY		12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	268.33	
			For 2,000 PSI Concrete, Deduct	-9.55	
			For 2,500 PSI Concrete, Deduct	-4.78	
			For 3,500 PSI Concrete, Add	8.85	
			For 3,750 PSI Concrete, Add	12.03	
			For 4,000 PSI Concrete, Add	15.22	
			For 4,500 PSI Concrete, Add	17.69	
			For 5,000 PSI Concrete, Add	20.17	
			For 6,000 PSI Concrete, Add	47.77	
			For 7,500 PSI Concrete, Add	118.64	
			For White Cement Concrete, Add	21.23	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
			For High Early Strength, Type 3 ASTM C150, Add	17.69	
			For Lightweight Aggregate, ASTM C330, Add	61.93	
			For Up To 20, Add	36.56	
			For >20 To 50, Add	13.71	
			For >100 To 200, Deduct	-5.37	
			For >200 To 400, Deduct	-10.73	
			For >400, Deduct	-16.10	
03 31 13 00-0067	CY		15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	256.91	
			For 2,000 PSI Concrete, Deduct	-9.55	
			For 2,500 PSI Concrete, Deduct	-4.78	
			For 3,500 PSI Concrete, Add	8.85	
			For 3,750 PSI Concrete, Add	12.03	
			For 4,000 PSI Concrete, Add	15.22	
			For 4,500 PSI Concrete, Add	17.69	
			For 5,000 PSI Concrete, Add	20.17	
			For 6,000 PSI Concrete, Add	47.77	
			For 7,500 PSI Concrete, Add	118.64	
			For White Cement Concrete, Add	21.23	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
			For High Early Strength, Type 3 ASTM C150, Add	17.69	
			For Lightweight Aggregate, ASTM C330, Add	61.93	
			For Up To 20, Add	31.99	
			For >20 To 50, Add	12.00	
			For >100 To 200, Deduct	-5.14	
			For >200 To 400, Deduct	-10.28	
			For >400, Deduct	-15.41	
03 31 13 00-0068	CY		Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	300.50	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-10.35	
			For 2,500 PSI Concrete, Deduct	-5.18	
			For 3,500 PSI Concrete, Add	9.58	
			For 3,750 PSI Concrete, Add	13.03	
			For 4,000 PSI Concrete, Add	16.49	
			For 4,500 PSI Concrete, Add	19.17	
			For 5,000 PSI Concrete, Add	21.85	
			For 6,000 PSI Concrete, Add	51.76	
			For 7,500 PSI Concrete, Add	128.53	
			For White Cement Concrete, Add	23.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
			For High Early Strength, Type 3 ASTM C150, Add	19.17	
			For Lightweight Aggregate, ASTM C330, Add	67.09	
			For Up To 20, Add	43.52	
			For >20 To 50, Add	16.32	
			For >100 To 200, Deduct	-6.01	
			For >200 To 400, Deduct	-12.02	
			For >400, Deduct	-18.03	



Concrete		03	CS
Cast-In-Place Concrete		03 30	
Structural Concrete		03 31	

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
03 31 13 00-0069	CY	12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	278.73	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-10.35	
		For 2,500 PSI Concrete, Deduct	-5.18	
		For 3,500 PSI Concrete, Add	9.58	
		For 3,750 PSI Concrete, Add	13.03	
		For 4,000 PSI Concrete, Add	16.49	
		For 4,500 PSI Concrete, Add	19.17	
		For 5,000 PSI Concrete, Add	21.85	
		For 6,000 PSI Concrete, Add	51.76	
		For 7,500 PSI Concrete, Add	128.53	
		For White Cement Concrete, Add	23.00	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
		For High Early Strength, Type 3 ASTM C150, Add	19.17	
		For Lightweight Aggregate, ASTM C330, Add	67.09	
		For Up To 20, Add	34.82	
		For >20 To 50, Add	13.06	
		For >100 To 200, Deduct	-5.57	
		For >200 To 400, Deduct	-11.15	
		For >400, Deduct	-16.72	
03 31 13 00-0070	CY	15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	267.85	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-10.35	
		For 2,500 PSI Concrete, Deduct	-5.18	
		For 3,500 PSI Concrete, Add	9.58	
		For 3,750 PSI Concrete, Add	13.03	
		For 4,000 PSI Concrete, Add	16.49	
		For 4,500 PSI Concrete, Add	19.17	
		For 5,000 PSI Concrete, Add	21.85	
		For 6,000 PSI Concrete, Add	51.76	
		For 7,500 PSI Concrete, Add	128.53	
		For White Cement Concrete, Add	23.00	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92	
		For High Early Strength, Type 3 ASTM C150, Add	19.17	
		For Lightweight Aggregate, ASTM C330, Add	67.09	
		For Up To 20, Add	30.46	
		For >20 To 50, Add	11.42	
		For >100 To 200, Deduct	-5.36	
		For >200 To 400, Deduct	-10.71	
		For >400, Deduct	-16.07	
03 31 13 00-0071		Place Elevated Concrete Stairs (03 31 13 00-0043)		
03 31 13 00-0072	CY	Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	703.12	
		For 2,000 PSI Concrete, Deduct	-9.55	
		For 2,500 PSI Concrete, Deduct	-4.78	
		For 3,500 PSI Concrete, Add	8.85	
		For 3,750 PSI Concrete, Add	12.03	
		For 4,000 PSI Concrete, Add	15.22	
		For 4,500 PSI Concrete, Add	17.69	
		For 5,000 PSI Concrete, Add	20.17	
		For 6,000 PSI Concrete, Add	47.77	
		For 7,500 PSI Concrete, Add	118.64	
		For White Cement Concrete, Add	21.23	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
		For High Early Strength, Type 3 ASTM C150, Add	17.69	
		For Lightweight Aggregate, ASTM C330, Add	61.93	
		For Up To 20, Add	210.47	
		For >20 To 50, Add	78.93	
		For >100 To 200, Deduct	-14.06	
		For >200 To 400, Deduct	-28.12	
		For >400, Deduct	-42.19	
03 31 13 00-0073	CY	Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	407.91	
		For 2,000 PSI Concrete, Deduct	-9.56	
		For 2,500 PSI Concrete, Deduct	-4.78	
		For 3,500 PSI Concrete, Add	8.85	
		For 3,750 PSI Concrete, Add	12.03	
		For 4,000 PSI Concrete, Add	15.22	
		For 4,500 PSI Concrete, Add	17.70	
		For 5,000 PSI Concrete, Add	20.17	
		For 6,000 PSI Concrete, Add	47.78	
		For 7,500 PSI Concrete, Add	118.64	
		For White Cement Concrete, Add	21.23	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00	
		For High Early Strength, Type 3 ASTM C150, Add	17.70	
		For Lightweight Aggregate, ASTM C330, Add	61.93	
		For Up To 20, Add	92.38	
		For >20 To 50, Add	34.64	
		For >100 To 200, Deduct	-8.16	
		For >200 To 400, Deduct	-16.32	
		For >400, Deduct	-24.47	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 31 13 00-0074	CY	Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	384.16		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-10.35		
		For 2,500 PSI Concrete, Deduct	-5.18		
		For 3,500 PSI Concrete, Add	9.58		
		For 3,750 PSI Concrete, Add	13.03		
		For 4,000 PSI Concrete, Add	16.49		
		For 4,500 PSI Concrete, Add	19.17		
		For 5,000 PSI Concrete, Add	21.85		
		For 6,000 PSI Concrete, Add	51.76		
		For 7,500 PSI Concrete, Add	128.53		
		For White Cement Concrete, Add	23.00		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92		
		For High Early Strength, Type 3 ASTM C150, Add	19.17		
		For Lightweight Aggregate, ASTM C330, Add	67.09		
		For Up To 20, Add	76.99		
		For >20 To 50, Add	28.87		
		For >100 To 200, Deduct	-7.68		
		For >200 To 400, Deduct	-15.37		
		For >400, Deduct	-23.05		
03 31 13 00-0075		Place Concrete Copping (03 31 13 00-0043)			
03 31 13 00-0076	CY	Crane And Bucket, Place 3,000 PSI Concrete Copping.....	721.32		
		For 2,000 PSI Concrete, Deduct	-9.56		
		For 2,500 PSI Concrete, Deduct	-4.78		
		For 3,500 PSI Concrete, Add	8.85		
		For 3,750 PSI Concrete, Add	12.03		
		For 4,000 PSI Concrete, Add	15.22		
		For 4,500 PSI Concrete, Add	17.70		
		For 5,000 PSI Concrete, Add	20.17		
		For 6,000 PSI Concrete, Add	47.78		
		For 7,500 PSI Concrete, Add	118.64		
		For White Cement Concrete, Add	21.23		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
		For High Early Strength, Type 3 ASTM C150, Add	17.70		
		For Lightweight Aggregate, ASTM C330, Add	61.93		
		For Up To 20, Add	217.75		
		For >20 To 50, Add	81.66		
		For >100 To 200, Deduct	-14.43		
		For >200 To 400, Deduct	-28.85		
		For >400, Deduct	-43.28		
03 31 13 00-0077	CY	Direct Chute, Place 3,000 PSI Concrete Copping.....	406.36		
		For 2,000 PSI Concrete, Deduct	-9.56		
		For 2,500 PSI Concrete, Deduct	-4.78		
		For 3,500 PSI Concrete, Add	8.85		
		For 3,750 PSI Concrete, Add	12.03		
		For 4,000 PSI Concrete, Add	15.22		
		For 4,500 PSI Concrete, Add	17.70		
		For 5,000 PSI Concrete, Add	20.17		
		For 6,000 PSI Concrete, Add	47.78		
		For 7,500 PSI Concrete, Add	118.64		
		For White Cement Concrete, Add	21.23		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.00		
		For High Early Strength, Type 3 ASTM C150, Add	17.70		
		For Lightweight Aggregate, ASTM C330, Add	61.93		
		For Up To 20, Add	91.76		
		For >20 To 50, Add	34.41		
		For >100 To 200, Deduct	-8.13		
		For >200 To 400, Deduct	-16.25		
		For >400, Deduct	-24.38		
03 31 13 00-0078	CY	Concrete Pump, Place 3,000 PSI Concrete Copping.....	539.17		
		Note: Excludes pumping equipment.			
		For 2,000 PSI Concrete, Deduct	-10.35		
		For 2,500 PSI Concrete, Deduct	-5.18		
		For 3,500 PSI Concrete, Add	9.58		
		For 3,750 PSI Concrete, Add	13.03		
		For 4,000 PSI Concrete, Add	16.49		
		For 4,500 PSI Concrete, Add	19.17		
		For 5,000 PSI Concrete, Add	21.85		
		For 6,000 PSI Concrete, Add	51.76		
		For 7,500 PSI Concrete, Add	128.53		
		For White Cement Concrete, Add	23.00		
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	24.92		
		For High Early Strength, Type 3 ASTM C150, Add	19.17		
		For Lightweight Aggregate, ASTM C330, Add	67.09		
		For Up To 20, Add	138.99		
		For >20 To 50, Add	52.12		
		For >100 To 200, Deduct	-10.78		
		For >200 To 400, Deduct	-21.57		
		For >400, Deduct	-32.35		
03 31 13 00-0079		Concrete Carts (03 31 13 00-0010)			
		Note: Used to place concrete were necessary.			
03 31 13 00-0080	CY	50' Haul, Non-Motorized, Concrete Buggy.....	26.90		
03 31 13 00-0081	CY	150' Haul, Non-Motorized, Concrete Buggy.....	36.02		



		Concrete	03	CS
		Cast-In-Place Concrete	03 30	
		Structural Concrete	03 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0082	CY	250' Haul, Non-Motorized, Concrete Buggy.....	48.03	
03 31 13 00-0083	CY	50' Haul, Motorized, Concrete Buggy	12.09	
03 31 13 00-0084	CY	150' Haul, Motorized, Concrete Buggy	16.20	
03 31 13 00-0085	CY	250' Haul, Motorized, Concrete Buggy	21.60	
03 31 13 00-0086		Delivery Fee For Small Concrete Purchases (Short Load) (03 31 13)		
03 31 13 00-0087	CY	Delivery Fee For Small Concrete Purchases (Short Load) Per CY For Each CY Less Than 9 CY..... Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.	27.69	
03 31 13 00-0088		Wash Out Truck For Non-Standard Concrete (03 31 13)		
		Note: Not portland.		
03 31 13 00-0089	EA	Concrete Truck Washout For Non-Standard Concrete	199.32	
		Note: Excludes washout container or bin		
03 31 13 00-0090		Delivery Fee For Concrete, Per Full Truck Load (03 31 13)		
03 31 13 00-0091	EA	Concrete Delivery Fee, Per Truck..... Note: To be added to all concrete leaving concrete yard	40.00	
03 31 13 00-0092		Equipment Pads (03 31 13)		
03 31 13 00-0093		Small Concrete Equipment Housekeeping Pad Assemblies (03 31 13 00-0092)		
		Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
03 31 13 00-0094	SF	4" Equipment Pad With Welded Wire Reinforcement Assembly..... For >5 To 20 Pads, Deduct For >20 To 50 Pads, Deduct For >50 Pads, Deduct	21.34 -2.69 -4.93 -7.16	
03 31 13 00-0095	SF	4" Equipment Pad With Rebar Assembly..... For >5 To 20 Pads, Deduct For >20 To 50 Pads, Deduct For >50 Pads, Deduct	27.16 -3.10 -5.68 -8.26	
03 31 13 00-0096	SF	6" Equipment Pad With Rebar Assembly..... For >5 To 20 Pads, Deduct For >20 To 50 Pads, Deduct For >50 Pads, Deduct	34.00 -3.90 -7.14 -10.39	
03 31 13 00-0097	SF	8" Equipment Pad With Rebar Assembly..... For >5 To 20 Pads, Deduct For >20 To 50 Pads, Deduct For >50 Pads, Deduct	42.55 -4.95 -9.08 -13.20	
03 31 16		Lightweight Structural Concrete (03 31)		
03 31 16 00-0001		Low Density Cellular / Foam Concrete Fill (03 31 16)		
03 31 16 00-0002	CY	Lightweight Low Density Pervious Cellular/Foam Concrete, 100 To 120 PCF Density Range.....	322.83	
03 35		Concrete Finishing (03 30)		
03 35 13		High-Tolerance Concrete Floor Finishing (03 35)		
03 35 13 00-0001		Floor Finishes (03 35 13)		
		Note: Task is for final finish type and includes all required prior finishes.		
03 35 13 00-0002	SF	Screed, Concrete Floor Finish	1.17	
		For Up To 100, Add For >100 To 250, Add For >250 To 500, Add For >5,000 To 10,000, Deduct For >10,000, Deduct	2.34 0.59 0.29 -0.06 -0.12	
03 35 13 00-0003	SF	Darby, Concrete Floor Finish.....	1.42	
		For Up To 100, Add For >100 To 250, Add For >250 To 500, Add For >5,000 To 10,000, Deduct For >10,000, Deduct	2.84 0.71 0.36 -0.07 -0.14	
03 35 13 00-0004	SF	Broom, Concrete Floor Finish.....	1.56	
		For Up To 100, Add For >100 To 250, Add For >250 To 500, Add For >5,000 To 10,000, Deduct For >10,000, Deduct	3.12 0.78 0.39 -0.08 -0.16	
03 35 13 00-0005	SF	Final Float, Concrete Floor Finish.....	1.81	
		For Up To 100, Add For >100 To 250, Add For >250 To 500, Add For >5,000 To 10,000, Deduct For >10,000, Deduct	3.62 0.91 0.45 -0.09 -0.18	

03 Concrete**03 30 Cast-In-Place Concrete****03 35 Concrete Finishing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 13 00-0006	SF	Steel Trowel, Concrete Floor Finish.....	2.04	
		For Up To 100, Add	4.08	
		For >100 To 250, Add	1.02	
		For >250 To 500, Add	0.51	
		For >5,000 To 10,000, Deduct	-0.10	
		For >10,000, Deduct	-0.20	
03 35 16		Heavy-Duty Concrete Floor Finishing (03 35)		
03 35 16 00-0001		Shake On Floor Hardeners (03 35 16)		
03 35 16 00-0002	SF	0.3 Lb./SF, Metallic, Shake On Floor Hardener	1.42	
03 35 16 00-0003	SF	0.65 Lb./SF, Metallic, Shake On Floor Hardener	2.16	
03 35 16 00-0004	SF	0.3 Lb./SF, Non-Metallic, Shake On Floor Hardener	1.35	
03 35 16 00-0005	SF	0.65 Lb./SF, Non-Metallic, Shake On Floor Hardener	1.61	
03 35 19		Colored Concrete Finishing (03 35)		
03 35 19 00-0001		Concrete Surface Treatments (03 35 19)		
03 35 19 00-0002	SF	Acrylic Latex Bonding Agent	0.59	
03 35 19 00-0003	SF	Epoxy Resin Bonding Agent	3.49	
03 35 19 00-0004	SF	Clear Acrylic Sealer, Hardener And Dustproofer	0.41	
03 35 19 00-0005	SF	Colored Acrylic Sealer, Hardener And Dustproofer	0.43	
03 35 23		Exposed Aggregate Concrete Finishing (03 35)		
03 35 23 00-0001		Exposed Aggregate, Concrete Finish (03 35 23)		
03 35 23 00-0002	SF	Exposed Aggregate, Concrete Floor Finish	4.30	
03 35 26		Grooved Concrete Surface Finishing (03 35)		
03 35 26 00-0001		Ramp, Grooved Concrete Surface Finishing (03 35 26)		
03 35 26 00-0002	SF	Ramp, Grooved Concrete Surface Finishing	5.22	
03 35 29		Tooled Concrete Finishing (03 35)		
03 35 29 00-0001		Solid Board Concrete Finish (03 35 29)		
03 35 29 00-0002	SF	Solid Board Concrete, Non-Uniform Finish, 1 Use, Add To Formwork	19.92	
03 35 29 00-0003		Marblecrete Finishes (03 35 29)		
03 35 29 00-0004	SF	2" Thick Marblecrete And Finish	43.29	
03 35 29 00-0005	SF	4" Thick Marblecrete And Finish	58.07	
03 35 33		Stamped Concrete Finishing (03 35)		
03 35 33 00-0001		Stamped Concrete Finishes (03 35 33)		
03 35 33 00-0002	SF	Up To 2,500 SF Stamped Concrete Finish	4.71	
03 35 33 00-0003	SF	>2,500 To 10,000 SF Stamped Concrete Finish	4.27	
03 35 33 00-0004	SF	>10,000 SF Stamped Concrete Finish	4.08	
03 35 63		Slip-Resistant Floor Finishing (03 35)		
03 35 63 00-0001		Slip-Resistant Floor Finishing (03 35 63)		
03 35 63 00-0002	SF	Aluminum Oxide Abrasive Floor Finish, 0.25 Lb./SF	2.00	
		For Up To 100, Add	2.24	
		For >100 To 250, Add	0.56	
		For >250 To 500, Add	0.28	
		For >5,000 To 10,000, Deduct	-0.06	
		For >10,000, Deduct	-0.11	
03 35 63 00-0003	SF	Silicone Carbide Abrasive Floor Finish 0.25 Lb./SF	1.77	
		For Up To 100, Add	2.24	
		For >100 To 250, Add	0.56	
		For >250 To 500, Add	0.28	
		For >5,000 To 10,000, Deduct	-0.06	
		For >10,000, Deduct	-0.11	
03 35 66		Acid Etch Floor Finishing (03 35)		
03 35 66 00-0001		Acid Etch Floor (03 35 66)		
03 35 66 00-0002	SF	Concrete Floor Finishes, Etch With Acid And Rinse	1.10	
		For Up To 100, Add	1.08	
		For >100 To 250, Add	0.27	
		For >250 To 500, Add	0.14	
		For >5,000 To 10,000, Deduct	-0.03	
		For >10,000, Deduct	-0.05	



		Concrete	03	CS
		Cast-In-Place Concrete	03 30	
		Concrete Finishing	03 35	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 35 83 Concrete Wall Finishing (03 35)

03 35 83 00-0001 Wall Finishes (03 35 83)

03 35 83 00-0002	SF	Burlap Rub With Grout, New Concrete Wall Finishes	2.07	
		For Up To 100, Add	3.94	
		For >100 To 250, Add	0.99	
		For >250 To 500, Add	0.49	
		For >5,000 To 10,000, Deduct	-0.10	
		For >10,000, Deduct	-0.20	
03 35 83 00-0003	SF	1/16" Float Finish, New Concrete Wall Finishes	3.10	
		For Up To 100, Add	5.90	
		For >100 To 250, Add	1.48	
		For >250 To 500, Add	0.74	
		For >5,000 To 10,000, Deduct	-0.15	
		For >10,000, Deduct	-0.30	
03 35 83 00-0004	SF	Etch With Acid And Rinse, New Concrete Wall Finishes	1.21	
		For Up To 100, Add	1.30	
		For >100 To 250, Add	0.33	
		For >250 To 500, Add	0.16	
		For >5,000 To 10,000, Deduct	-0.03	
		For >10,000, Deduct	-0.07	
03 35 83 00-0005	SF	Bush Hammer Green Concrete, New Concrete Wall Finishes	6.29	
		For Up To 100, Add	12.48	
		For >100 To 250, Add	3.12	
		For >250 To 500, Add	1.56	
		For >5,000 To 10,000, Deduct	-0.31	
		For >10,000, Deduct	-0.62	
03 35 83 00-0006	SF	Bush Hammer Cured Concrete, New Concrete Wall Finishes	9.75	
		For Up To 100, Add	19.30	
		For >100 To 250, Add	4.83	
		For >250 To 500, Add	2.41	
		For >5,000 To 10,000, Deduct	-0.48	
		For >10,000, Deduct	-0.97	
03 35 83 00-0007	SF	Break Ties And Patch, New Concrete Wall Finishes	1.19	
		For Up To 100, Add	2.12	
		For >100 To 250, Add	0.53	
		For >250 To 500, Add	0.27	
		For >5,000 To 10,000, Deduct	-0.05	
		For >10,000, Deduct	-0.11	
03 35 83 00-0008	SF	Carborundum Dry Rub, New Concrete Wall Finishes	4.06	
		For Up To 100, Add	7.86	
		For >100 To 250, Add	1.97	
		For >250 To 500, Add	0.98	
		For >5,000 To 10,000, Deduct	-0.20	
		For >10,000, Deduct	-0.39	
03 35 83 00-0009	SF	Carborundum Wet Rub, New Concrete Wall Finishes	6.19	
		For Up To 100, Add	12.12	
		For >100 To 250, Add	3.03	
		For >250 To 500, Add	1.52	
		For >5,000 To 10,000, Deduct	-0.30	
		For >10,000, Deduct	-0.61	
03 35 83 00-0010	SF	Up To 1/4" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	6.18	
		Note: 4.5 Lb. of sand or abrasive media material per SF		
		For Up To 100, Add	10.06	
		For >100 To 250, Add	2.52	
		For >250 To 500, Add	1.26	
		For >5,000 To 10,000, Deduct	-0.25	
		For >10,000, Deduct	-0.50	
03 35 83 00-0011	SF	>1/4" To 1/2" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	12.34	
		Note: 9 Lb. of sand abrasive media material per SF		
		For Up To 100, Add	20.10	
		For >100 To 250, Add	5.03	
		For >250 To 500, Add	2.51	
		For >5,000 To 10,000, Deduct	-0.50	
		For >10,000, Deduct	-1.01	

03 37 Specialty Placed Concrete (03 30)

Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.

03 37 13 Shotcrete (03 37)

03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair (03 37 13)

03 37 13 00-0002	SF	1" Thick Shotcrete, Fiber Reinforced	3.78	
		For Up To 25, Add	0.72	
		For >25 To 50, Add	0.42	
		For >50 To 150, Add	0.17	
03 37 13 00-0003	SF	2" Thick Shotcrete, Fiber Reinforced	7.08	
		For Up To 25, Add	1.33	
		For >25 To 50, Add	0.77	
		For >50 To 150, Add	0.31	

03 Concrete**03 30 Cast-In-Place Concrete****03 37 Specialty Placed Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0004 SF 3" Thick Shotcrete, Fiber Reinforced	10.00	
For Up To 25, Add	1.84	
For >25 To 50, Add	1.06	
For >50 To 150, Add	0.42	
03 37 13 00-0005 SF 4" Thick Shotcrete, Fiber Reinforced	12.59	
For Up To 25, Add	2.27	
For >25 To 50, Add	1.30	
For >50 To 150, Add	0.50	
03 37 13 00-0006 SF 6" Thick Shotcrete, Fiber Reinforced	16.96	
For Up To 25, Add	2.92	
For >25 To 50, Add	1.67	
For >50 To 150, Add	0.61	
03 37 13 00-0007 Gunite (Dry Mix Shotcrete), Sprayed (03 37 13)		
See CSI section 03 22 11 00-0001 for wire mesh reinforcing.		
03 37 13 00-0008 SF 1" Thick Gunite (Dry Mix Shotcrete), Sprayed	4.19	
For Radius Or Irregular Surface, Add	1.28	
For Up To 25, Add	0.90	
For >25 To 50, Add	0.53	
For >50 To 150, Add	0.24	
03 37 13 00-0009 SF 2" Thick Gunite (Dry Mix Shotcrete), Sprayed	7.71	
For Radius Or Irregular Surface, Add	2.28	
For Up To 25, Add	1.63	
For >25 To 50, Add	0.96	
For >50 To 150, Add	0.43	
03 37 13 00-0010 SF 3" Thick Gunite (Dry Mix Shotcrete), Sprayed	10.70	
For Radius Or Irregular Surface, Add	3.08	
For Up To 25, Add	2.23	
For >25 To 50, Add	1.31	
For >50 To 150, Add	0.58	
03 37 13 00-0011 SF 4" Thick Gunite (Dry Mix Shotcrete), Sprayed	13.25	
For Radius Or Irregular Surface, Add	3.70	
For Up To 25, Add	2.71	
For >25 To 50, Add	1.59	
For >50 To 150, Add	0.69	
03 37 13 00-0012 SF 5" Thick Gunite (Dry Mix Shotcrete), Sprayed	15.40	
For Radius Or Irregular Surface, Add	4.16	
For Up To 25, Add	3.10	
For >25 To 50, Add	1.81	
For >50 To 150, Add	0.78	
03 37 13 00-0013 SF 6" Thick Gunite (Dry Mix Shotcrete), Sprayed	17.23	
For Radius Or Irregular Surface, Add	4.50	
For Up To 25, Add	3.41	
For >25 To 50, Add	1.99	
For >50 To 150, Add	0.84	
03 37 13 00-0014 SF 8" Thick Gunite (Dry Mix Shotcrete), Sprayed	21.47	
For Radius Or Irregular Surface, Add	5.40	
For Up To 25, Add	4.17	
For >25 To 50, Add	2.42	
For >50 To 150, Add	1.01	
03 37 13 00-0015 SF 10" Thick Gunite (Dry Mix Shotcrete), Sprayed	25.16	
For Radius Or Irregular Surface, Add	6.07	
For Up To 25, Add	4.79	
For >25 To 50, Add	2.78	
For >50 To 150, Add	1.14	
03 37 13 00-0016 SF 12" Thick Gunite (Dry Mix Shotcrete), Sprayed	28.36	
For Radius Or Irregular Surface, Add	6.56	
For Up To 25, Add	5.29	
For >25 To 50, Add	3.06	
For >50 To 150, Add	1.23	

03 37 16 Pumped Concrete (03 37)**03 37 16 00-0001 Concrete Pumping With Boom Truck** (03 37 16)

Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for cleanup of equipment add one hour. Use four hours as the minimum cost including set-up and cleanup. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.

03 37 16 00-0002 HR 55' To 60' Boom Truck For Concrete Placement	378.64	
Note: 95 CY per hour rating		
03 37 16 00-0003 HR 70' To 80' Boom Truck For Concrete Placement	418.36	
Note: 117 CY per hour rating		
03 37 16 00-0004 HR 90' To 100' Boom Truck For Concrete Placement	561.79	
Note: 117 CY per hour rating		
For Each CY Of Concrete Pumped, Add	1.25	
03 37 16 00-0005 HR 105' To 115' Boom Truck For Concrete Placement	651.08	
Note: 117 CY per hour rating		
For Each CY Of Concrete Pumped, Add	1.50	
03 37 16 00-0006 HR 120' To 130' Boom Truck For Concrete Placement	743.22	
Note: 170 CY per hour rating		
For Each CY Of Concrete Pumped, Add	1.75	



	Concrete	03	CS
	Cast-In-Place Concrete	03 30	
	Specialty Placed Concrete	03 37	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 16 00-0007	HR	135' To 140' Boom Truck For Concrete Placement	938.37	
		Note: 170 CY per hour rating		
03 37 16 00-0008	HR	148' To 155' Boom Truck For Concrete Placement	1,054.80	
		Note: 170 CY per hour rating		
03 37 16 00-0009	HR	170' To 175' Boom Truck For Concrete Placement	1,336.81	
		Note: 182 CY per hour rating		
		For Each CY Of Concrete Pumped, Add	2.25	
03 37 16 00-0010	HR	35 CY/HR, 66 HP Trailer Mounted Concrete Pump	247.91	
		Note: Includes hoses		

03 39 Concrete Curing (03 30)

03 39 13 Water Concrete Curing (03 39)

03 39 13 00-0001 Water Concrete Curing (03 39 13)

03 39 13 00-0002	SF	Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.38	
		Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.		

03 39 23 Membrane Concrete Curing (03 39)

03 39 23 23 Sheet Membrane Concrete Curing (03 39 23)

03 39 23 23-0001 Warm Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0002	CSF	Warm Weather Concrete Curing Blankets	35.75	

03 39 23 23-0003 Cold Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0004	CSF	Electric, Cold Weather Concrete Curing Blanket	188.53	
03 39 23 23-0005	CSF	Non-Electric, Cold Weather Concrete Curing Blanket	40.66	

03 40 Precast Concrete (03)

Note: Precast concrete material prices are based on a precast operation producing large quantities of precast products. Includes the concrete panel, delivery to construction site and overhead/mobilization charges for the precast plant.

03 41 Precast Structural Concrete (03 40)

03 41 16 Precast Concrete Slabs (03 41)

03 41 16 00-0001 Flat Floor Slab/Floor Plank (03 41 16)

03 41 16 00-0002 Erection Costs For Using A 90 Ton Crawler Crane (03 41 16 00-0001)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0003	EA	Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane	398.41	318.75
03 41 16 00-0004	EA	Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	442.88	354.25
03 41 16 00-0005	EA	Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane	470.28	376.20
03 41 16 00-0006	EA	Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane	498.55	398.86
03 41 16 00-0007	EA	Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane	533.53	426.81
03 41 16 00-0008	EA	Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	570.22	456.18
03 41 16 00-0009	EA	Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane	612.31	489.82
03 41 16 00-0010	EA	Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	665.95	532.72
03 41 16 00-0011	EA	Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane	724.08	579.33

03 41 16 00-0012 Material Cost (03 41 16 00-0001)

Note: Includes cost for 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations cost.

03 41 16 00-0013	SF	4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	35.85	
		For 3,500 PSI Concrete, Add	0.72	
		For 4,000 PSI Concrete, Add	1.08	
		For 4,500 PSI Concrete, Add	1.43	
		For 5,000 PSI Concrete, Add	2.15	
03 41 16 00-0014	SF	5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	43.02	
		For 3,500 PSI Concrete, Add	0.86	
		For 4,000 PSI Concrete, Add	1.29	
		For 4,500 PSI Concrete, Add	1.72	
		For 5,000 PSI Concrete, Add	2.58	
03 41 16 00-0015	SF	6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	52.58	
		For 3,500 PSI Concrete, Add	1.05	
		For 4,000 PSI Concrete, Add	1.58	
		For 4,500 PSI Concrete, Add	2.10	
		For 5,000 PSI Concrete, Add	3.15	
03 41 16 00-0016	SF	8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	69.79	
		For 3,500 PSI Concrete, Add	1.40	
		For 4,000 PSI Concrete, Add	2.09	
		For 4,500 PSI Concrete, Add	2.79	
		For 5,000 PSI Concrete, Add	4.19	

03 41 16 00-0017 Floor Units, Combination Beam And Slab (03 41 16)

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane (03 41 16 00-0017)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0019	EA	Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane	489.60	391.66
03 41 16 00-0020	EA	Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane	533.63	426.96
03 41 16 00-0021	EA	Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane	589.80	471.78
03 41 16 00-0022	EA	Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane	654.91	523.88
03 41 16 00-0023	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane	736.18	588.88

03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane (03 41 16 00-0017)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0025	EA	Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane.....	613.64	490.94
03 41 16 00-0026	EA	Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane.....	668.83	535.02
03 41 16 00-0027	EA	Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane.....	739.24	591.44
03 41 16 00-0028	EA	Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane.....	820.84	656.69
03 41 16 00-0029	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane.....	922.70	738.24
03 41 16 00-0030	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane.....	1,003.25	802.54
03 41 16 00-0031	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane.....	1,108.85	887.08
03 41 16 00-0032	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane.....	1,227.28	981.88
03 41 16 00-0033	EA	Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane.....	1,389.11	1,111.29

03 41 16 00-0034 Material Cost (03 41 16 00-0017)

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.

03 41 16 00-0035 4" Slab (03 41 16 00-0034)

03 41 16 00-0036	CY	Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,776.16	
		For 3,500 PSI Concrete, Add	75.52	
		For 4,000 PSI Concrete, Add	113.28	
		For 4,500 PSI Concrete, Add	151.05	
		For 5,000 PSI Concrete, Add	226.57	
03 41 16 00-0037	CY	Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,823.96	
		For 3,500 PSI Concrete, Add	76.48	
		For 4,000 PSI Concrete, Add	114.72	
		For 4,500 PSI Concrete, Add	152.96	
		For 5,000 PSI Concrete, Add	229.44	
03 41 16 00-0038	CY	Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,301.96	
		For 3,500 PSI Concrete, Add	86.04	
		For 4,000 PSI Concrete, Add	129.06	
		For 4,500 PSI Concrete, Add	172.08	
		For 5,000 PSI Concrete, Add	258.12	

03 41 16 00-0039 5" Slab (03 41 16 00-0034)

03 41 16 00-0040	CY	Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,871.76	
		For 3,500 PSI Concrete, Add	77.44	
		For 4,000 PSI Concrete, Add	116.15	
		For 4,500 PSI Concrete, Add	154.87	
		For 5,000 PSI Concrete, Add	232.31	
03 41 16 00-0041	CY	Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	4,015.16	
		For 3,500 PSI Concrete, Add	80.30	
		For 4,000 PSI Concrete, Add	120.45	
		For 4,500 PSI Concrete, Add	160.61	
		For 5,000 PSI Concrete, Add	240.91	
03 41 16 00-0042	CY	Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	5,114.55	
		For 3,500 PSI Concrete, Add	102.29	
		For 4,000 PSI Concrete, Add	153.44	
		For 4,500 PSI Concrete, Add	204.58	
		For 5,000 PSI Concrete, Add	306.87	

03 41 16 00-0043 6" Slab (03 41 16 00-0034)

03 41 16 00-0044	CY	Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	4,015.16	
		For 3,500 PSI Concrete, Add	80.30	
		For 4,000 PSI Concrete, Add	120.45	
		For 4,500 PSI Concrete, Add	160.61	
		For 5,000 PSI Concrete, Add	240.91	
03 41 16 00-0045	CY	Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	4,779.96	
		For 3,500 PSI Concrete, Add	95.60	
		For 4,000 PSI Concrete, Add	143.40	
		For 4,500 PSI Concrete, Add	191.20	
		For 5,000 PSI Concrete, Add	286.80	
03 41 16 00-0046	CY	Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	5,831.55	
		For 3,500 PSI Concrete, Add	116.63	
		For 4,000 PSI Concrete, Add	174.95	
		For 4,500 PSI Concrete, Add	233.26	
		For 5,000 PSI Concrete, Add	349.89	

03 41 19 Precast Concrete Wall Panels (03 41)



Concrete		03	CS
Precast Concrete		03 40	
Precast Structural Concrete		03 41	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
03 41 19 00-0001	Structural Wall Panels (03 41 19)				
	Note: Gray, smooth form or board finish one side.				
03 41 19 00-0002	Erection Cost Using 50 Ton Hydraulic Crane (03 41 19 00-0001)				
	Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.				
03 41 19 00-0003	EA	Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	397.77		318.25
03 41 19 00-0004	EA	Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	442.18		353.68
03 41 19 00-0005	EA	Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	497.76		398.23
03 41 19 00-0006	EA	Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	532.68		426.13
03 41 19 00-0007	EA	Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	569.31		455.45
03 41 19 00-0008	EA	Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	611.33		489.04
03 41 19 00-0009	EA	Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	664.89		531.87
03 41 19 00-0010	EA	Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	722.93		578.41
03 41 19 00-0011	Erection Cost Using 90 Ton Crawler Crane (03 41 19 00-0001)				
	Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.				
03 41 19 00-0012	EA	Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	440.42		352.30
03 41 19 00-0013	EA	Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	489.60		391.66
03 41 19 00-0014	EA	Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	551.13		440.96
03 41 19 00-0015	EA	Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	589.80		471.78
03 41 19 00-0016	EA	Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	630.35		504.28
03 41 19 00-0017	EA	Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	676.89		541.54
03 41 19 00-0018	EA	Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane.....	736.18		588.88
03 41 19 00-0019	EA	Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	800.44		640.30
03 41 19 00-0020	EA	Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	884.70		707.81
03 41 19 00-0021	EA	Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	979.18		783.31
03 41 19 00-0022	EA	Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,108.30		886.69
03 41 19 00-0023	EA	Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,260.70		1,008.55
03 41 19 00-0024	EA	Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane.....	1,461.68		1,169.36
03 41 19 00-0025	Material Cost (03 41 19 00-0001)				
	Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.				
03 41 19 00-0026	SF	4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	47.80		
		For 3,500 PSI Concrete, Add	0.96		
		For 4,000 PSI Concrete, Add	1.43		
		For 4,500 PSI Concrete, Add	1.91		
		For 5,000 PSI Concrete, Add	2.87		
		For White Facing, Add	9.56		
		For Solid White Through Thickness, Add	9.56		
		For Broken Rib Finish, Add	4.78		
		For Fluted Surface, Add	4.78		
		For Exposed Aggregate, Add	9.56		
		For Sandblasting Of Surface, Add	4.78		
		For 2" Polystyrene Insulation, Add	2.21		
03 41 19 00-0027	SF	5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	58.79		
		For 3,500 PSI Concrete, Add	1.18		
		For 4,000 PSI Concrete, Add	1.76		
		For 4,500 PSI Concrete, Add	2.35		
		For 5,000 PSI Concrete, Add	3.53		
		For White Facing, Add	11.76		
		For Solid White Through Thickness, Add	11.76		
		For Broken Rib Finish, Add	5.88		
		For Fluted Surface, Add	5.88		
		For Exposed Aggregate, Add	11.76		
		For Sandblasting Of Surface, Add	5.88		
		For 2" Polystyrene Insulation, Add	2.21		
03 41 19 00-0028	SF	6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	70.74		
		For 3,500 PSI Concrete, Add	1.41		
		For 4,000 PSI Concrete, Add	2.12		
		For 4,500 PSI Concrete, Add	2.83		
		For 5,000 PSI Concrete, Add	4.24		
		For White Facing, Add	14.15		
		For Solid White Through Thickness, Add	14.15		
		For Broken Rib Finish, Add	7.07		
		For Fluted Surface, Add	7.07		
		For Exposed Aggregate, Add	14.15		
		For Sandblasting Of Surface, Add	7.07		
		For 2" Polystyrene Insulation, Add	2.21		
03 41 19 00-0029	SF	8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	93.21		
		For 3,500 PSI Concrete, Add	1.86		
		For 4,000 PSI Concrete, Add	2.80		
		For 4,500 PSI Concrete, Add	3.73		
		For 5,000 PSI Concrete, Add	5.59		
		For White Facing, Add	18.64		
		For Solid White Through Thickness, Add	18.64		
		For Broken Rib Finish, Add	9.32		
		For Fluted Surface, Add	9.32		
		For Exposed Aggregate, Add	18.64		
		For Sandblasting Of Surface, Add	9.32		
		For 2" Polystyrene Insulation, Add	2.21		

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0030	Partition Panels (03 41 19)		
03 41 19 00-0031	Erection Costs Using 20 Ton Hydraulic Crane (03 41 19 00-0030)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 19 00-0032	EA Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane.....	315.47	252.32
03 41 19 00-0033	EA Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane.....	350.69	280.58
03 41 19 00-0034	EA Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane.....	394.76	315.80
03 41 19 00-0035	EA Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane.....	451.50	361.21
03 41 19 00-0036	EA Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane.....	484.84	387.91
03 41 19 00-0037	EA Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane.....	527.31	421.84
03 41 19 00-0038	EA Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane.....	573.35	458.73
03 41 19 00-0039	EA Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane.....	633.69	506.98
03 41 19 00-0040	Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0030)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 19 00-0041	EA Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	397.77	318.25
03 41 19 00-0042	EA Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	442.18	353.68
03 41 19 00-0043	EA Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	497.76	398.23
03 41 19 00-0044	EA Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	569.31	455.45
03 41 19 00-0045	EA Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	611.33	489.04
03 41 19 00-0046	EA Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	664.89	531.87
03 41 19 00-0047	EA Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	722.93	578.41
03 41 19 00-0048	EA Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	799.03	639.19
03 41 19 00-0049	EA Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane.....	884.37	707.51
03 41 19 00-0050	EA Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane.....	1,000.98	800.73
03 41 19 00-0051	EA Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	1,138.62	910.89
03 41 19 00-0052	EA Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane.....	1,320.13	1,056.06
03 41 19 00-0053	Material Cost (03 41 19 00-0030)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.			
03 41 19 00-0054	SF 4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	45.41	
	For 4,000 PSI Concrete, Add	1.36	
	For 4,500 PSI Concrete, Add	1.82	
	For 5,000 PSI Concrete, Add	2.72	
	For White Facing, Add	9.08	
	For Solid White Through Thickness, Add	9.08	
	For Broken Rib Finish, Add	4.54	
	For Fluted Surface, Add	4.54	
	For Exposed Aggregate, Add	9.08	
	For Sandblasting Of Surface, Add	4.54	
03 41 19 00-0055	SF 5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	55.92	
	For 4,000 PSI Concrete, Add	1.68	
	For 4,500 PSI Concrete, Add	2.24	
	For 5,000 PSI Concrete, Add	3.36	
	For White Facing, Add	11.18	
	For Solid White Through Thickness, Add	11.18	
	For Broken Rib Finish, Add	5.59	
	For Fluted Surface, Add	5.59	
	For Exposed Aggregate, Add	11.18	
	For Sandblasting Of Surface, Add	5.59	
03 41 19 00-0056	SF 6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	66.92	
	For 4,000 PSI Concrete, Add	2.01	
	For 4,500 PSI Concrete, Add	2.68	
	For 5,000 PSI Concrete, Add	4.02	
	For White Facing, Add	13.38	
	For Solid White Through Thickness, Add	13.38	
	For Broken Rib Finish, Add	6.69	
	For Fluted Surface, Add	6.69	
	For Exposed Aggregate, Add	13.38	
	For Sandblasting Of Surface, Add	6.69	
03 41 19 00-0057	SF 8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	88.43	
	For 4,000 PSI Concrete, Add	2.65	
	For 4,500 PSI Concrete, Add	3.54	
	For 5,000 PSI Concrete, Add	5.31	
	For White Facing, Add	17.69	
	For Solid White Through Thickness, Add	17.69	
	For Broken Rib Finish, Add	8.84	
	For Fluted Surface, Add	8.84	
	For Exposed Aggregate, Add	17.69	
	For Sandblasting Of Surface, Add	8.84	
03 41 19 00-0058	Cladding Panels (03 41 19)		
03 41 19 00-0059	Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0058)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 19 00-0060	EA Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	419.77	335.75



	Concrete	03	CS
	Precast Concrete	03 40	
	Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0061	EA	Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	469.53	375.60
03 41 19 00-0062	EA	Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	532.68	426.13
03 41 19 00-0063	EA	Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	569.31	455.45
03 41 19 00-0064	EA	Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	611.33	489.04
03 41 19 00-0065	EA	Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	664.89	531.87
03 41 19 00-0066	EA	Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	722.93	578.41
03 41 19 00-0067	EA	Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	799.03	639.19
03 41 19 00-0068 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0058)				
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.				
03 41 19 00-0069	EA	Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	464.77	371.76
03 41 19 00-0070	EA	Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	519.87	415.89
03 41 19 00-0071	EA	Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	589.80	471.78
03 41 19 00-0072	EA	Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	630.35	504.28
03 41 19 00-0073	EA	Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	676.89	541.54
03 41 19 00-0074	EA	Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	736.18	588.88
03 41 19 00-0075	EA	Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane.....	800.44	640.30
03 41 19 00-0076	EA	Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	884.70	707.81
03 41 19 00-0077	EA	Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	979.18	783.31
03 41 19 00-0078	EA	Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	1,108.30	886.69
03 41 19 00-0079	EA	Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,260.70	1,008.55
03 41 19 00-0080	EA	Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,461.68	1,169.36
03 41 19 00-0081 Material Cost (03 41 19 00-0058)				
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.				
03 41 19 00-0082	SF	4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	45.41	
		For 3,500 PSI Concrete, Add	0.91	
		For 4,000 PSI Concrete, Add	1.36	
		For 4,500 PSI Concrete, Add	1.82	
		For 5,000 PSI Concrete, Add	2.72	
		For White Facing, Add	9.08	
		For Solid White Through Thickness, Add	9.08	
		For Broken Rib Finish, Add	4.54	
		For Fluted Surface, Add	4.54	
		For Exposed Aggregate, Add	9.08	
		For Sandblasting Of Surface, Add	4.54	
03 41 19 00-0083	SF	5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	55.92	
		For 3,500 PSI Concrete, Add	1.12	
		For 4,000 PSI Concrete, Add	1.68	
		For 4,500 PSI Concrete, Add	2.24	
		For 5,000 PSI Concrete, Add	3.36	
		For White Facing, Add	11.18	
		For Solid White Through Thickness, Add	11.18	
		For Broken Rib Finish, Add	5.59	
		For Fluted Surface, Add	5.59	
		For Exposed Aggregate, Add	11.18	
		For Sandblasting Of Surface, Add	5.59	
03 41 19 00-0084	SF	6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	66.92	
		For 3,500 PSI Concrete, Add	1.34	
		For 4,000 PSI Concrete, Add	2.01	
		For 4,500 PSI Concrete, Add	2.68	
		For 5,000 PSI Concrete, Add	4.02	
		For White Facing, Add	13.38	
		For Solid White Through Thickness, Add	13.38	
		For Broken Rib Finish, Add	6.69	
		For Fluted Surface, Add	6.69	
		For Exposed Aggregate, Add	13.38	
		For Sandblasting Of Surface, Add	6.69	
03 41 19 00-0085	SF	8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	88.43	
		For 3,500 PSI Concrete, Add	1.77	
		For 4,000 PSI Concrete, Add	2.65	
		For 4,500 PSI Concrete, Add	3.54	
		For 5,000 PSI Concrete, Add	5.31	
		For White Facing, Add	17.69	
		For Solid White Through Thickness, Add	17.69	
		For Broken Rib Finish, Add	8.84	
		For Fluted Surface, Add	8.84	
		For Exposed Aggregate, Add	17.69	
		For Sandblasting Of Surface, Add	8.84	
03 41 19 00-0086 Sandwich Panel (03 41 19)				
03 41 19 00-0087 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0086)				
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.				
03 41 19 00-0088	EA	Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	419.77	335.75
03 41 19 00-0089	EA	Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	469.53	375.60
03 41 19 00-0090	EA	Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	532.68	426.13
03 41 19 00-0091	EA	Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	569.31	455.45
03 41 19 00-0092	EA	Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	611.33	489.04

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 41 19 00-0093	EA	Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	664.89	531.87
03 41 19 00-0094	EA	Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	722.93	578.41
03 41 19 00-0095	EA	Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	799.03	639.19

03 41 19 00-0096 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0086)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 19 00-0097	EA	Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	420.44	336.29
03 41 19 00-0098	EA	Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	470.28	376.20
03 41 19 00-0099	EA	Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	533.53	426.81
03 41 19 00-0100	EA	Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	570.22	456.18
03 41 19 00-0101	EA	Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	612.31	489.82
03 41 19 00-0102	EA	Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	665.95	532.72
03 41 19 00-0103	EA	Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	724.08	579.33
03 41 19 00-0104	EA	Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	800.30	640.21
03 41 19 00-0105	EA	Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	885.78	708.63
03 41 19 00-0106	EA	Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	1,002.58	802.01
03 41 19 00-0107	EA	Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	1,140.43	912.34
03 41 19 00-0108	EA	Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,322.24	1,057.75

03 41 19 00-0109 Material Cost (03 41 19 00-0086)

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.

03 41 19 00-0110	SF	4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	62.14	
		For 3,500 PSI Concrete, Add	1.24	
		For 4,000 PSI Concrete, Add	1.86	
		For 4,500 PSI Concrete, Add	2.49	
		For 5,000 PSI Concrete, Add	3.73	
		For White Facing, Add	12.43	
		For Solid White Through Thickness, Add	12.43	
		For Broken Rib Finish, Add	6.21	
		For Fluted Surface, Add	6.21	
		For Exposed Aggregate, Add	12.43	
		For Sandblasting Of Surface, Add	6.21	
03 41 19 00-0111	SF	5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	73.13	
		For 3,500 PSI Concrete, Add	1.46	
		For 4,000 PSI Concrete, Add	2.19	
		For 4,500 PSI Concrete, Add	2.93	
		For 5,000 PSI Concrete, Add	4.39	
		For White Facing, Add	14.63	
		For Solid White Through Thickness, Add	14.63	
		For Broken Rib Finish, Add	7.31	
		For Fluted Surface, Add	7.31	
		For Exposed Aggregate, Add	14.63	
		For Sandblasting Of Surface, Add	7.31	
03 41 19 00-0112	SF	6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	85.08	
		For 3,500 PSI Concrete, Add	1.70	
		For 4,000 PSI Concrete, Add	2.55	
		For 4,500 PSI Concrete, Add	3.40	
		For 5,000 PSI Concrete, Add	5.10	
		For White Facing, Add	17.02	
		For Solid White Through Thickness, Add	17.02	
		For Broken Rib Finish, Add	8.51	
		For Fluted Surface, Add	8.51	
		For Exposed Aggregate, Add	17.02	
		For Sandblasting Of Surface, Add	8.51	
03 41 19 00-0113	SF	8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	107.55	
		For 3,500 PSI Concrete, Add	2.15	
		For 4,000 PSI Concrete, Add	3.23	
		For 4,500 PSI Concrete, Add	4.30	
		For 5,000 PSI Concrete, Add	6.45	
		For White Facing, Add	21.51	
		For Solid White Through Thickness, Add	21.51	
		For Broken Rib Finish, Add	10.76	
		For Fluted Surface, Add	10.76	
		For Exposed Aggregate, Add	21.51	
		For Sandblasting Of Surface, Add	10.76	

03 41 23 Precast Concrete Stairs (03 41)**03 41 23 00-0001 Erection Costs Using A 50 Ton Hydraulic Crane (03 41 23)**

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 23 00-0002	EA	Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane	442.18	353.68
03 41 23 00-0003	EA	Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	469.53	375.60
03 41 23 00-0004	EA	Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane	497.76	398.23
03 41 23 00-0005	EA	Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	532.68	426.13
03 41 23 00-0006	EA	Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane	569.31	455.45
03 41 23 00-0007	EA	Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	611.33	489.04
03 41 23 00-0008	EA	Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane	664.89	531.87
03 41 23 00-0009	EA	Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	722.93	578.41



	Concrete	03	CS
	Precast Concrete	03 40	
	Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 23 00-0010 Erection Costs Using A 90 Ton Crawler Crane (03 41 23)			
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 23 00-0011	EA Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane.....	442.18	353.68
03 41 23 00-0012	EA Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	469.53	375.60
03 41 23 00-0013	EA Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	497.76	398.23
03 41 23 00-0014	EA Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	532.68	426.13
03 41 23 00-0015	EA Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	569.31	455.45
03 41 23 00-0016	EA Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	611.33	489.04
03 41 23 00-0017	EA Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	664.89	531.87
03 41 23 00-0018	EA Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	722.93	578.41
03 41 23 00-0019 Material Cost (03 41 23)			
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast operations.			
03 41 23 00-0020	EA 3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser.....	957.95	
	For 3,500 PSI Concrete, Add	125.01	
	For 4,000 PSI Concrete, Add	234.89	
	For 4,500 PSI Concrete, Add	345.25	
	For 5,000 PSI Concrete, Add	469.68	
03 41 26 Precast Concrete Structural Sections (03 41)			
03 41 26 00-0001 Precast Beams, Girder And Joists (03 41 26)			
03 41 26 00-0002 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0001)			
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 26 00-0003	EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane	551.13	440.96
03 41 26 00-0004	EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane	589.80	471.78
03 41 26 00-0005	EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane	630.35	504.28
03 41 26 00-0006	EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane	676.89	541.54
03 41 26 00-0007 Erection Costs Using A 125 Ton Crawler Crane (03 41 26 00-0001)			
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 26 00-0008	EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane	690.76	552.57
03 41 26 00-0009	EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane	739.24	591.44
03 41 26 00-0010	EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane	790.06	632.04
03 41 26 00-0011	EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane	848.38	678.66
03 41 26 00-0012	EA Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane	922.70	738.24
03 41 26 00-0013	EA Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane	1,003.25	802.54
03 41 26 00-0014	EA Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane	1,108.85	887.08
03 41 26 00-0015	EA Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane	1,227.28	981.88
03 41 26 00-0016 Material Cost (03 41 26 00-0001)			
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.			
03 41 26 00-0017 1,000 Lb./LF Live Load (03 41 26 00-0016)			
03 41 26 00-0018	LF Precast Structural Sections, 1,000 Lb./LF, 15' Span Live Load, Span, 3,000 PSI.....	191.56	
	For 3,500 PSI Concrete, Add	5.23	
	For 4,000 PSI Concrete, Add	7.85	
	For 4,500 PSI Concrete, Add	10.46	
	For 5,000 PSI Concrete, Add	15.71	
03 41 26 00-0019	LF Precast Structural Sections, 1,000 Lb./LF, 20' Span Live Load, Span, 3,000 PSI.....	239.45	
	For 3,500 PSI Concrete, Add	6.54	
	For 4,000 PSI Concrete, Add	9.82	
	For 4,500 PSI Concrete, Add	13.07	
	For 5,000 PSI Concrete, Add	19.63	
03 41 26 00-0020	LF Precast Structural Sections, 1,000 Lb./LF, 30' Span Live Load, Span, 3,000 PSI.....	287.34	
	For 3,500 PSI Concrete, Add	7.84	
	For 4,000 PSI Concrete, Add	11.78	
	For 4,500 PSI Concrete, Add	15.69	
	For 5,000 PSI Concrete, Add	23.56	
03 41 26 00-0021 3,000 Lb./LF Live Load (03 41 26 00-0016)			
03 41 26 00-0022	LF Precast Structural Sections, 3,000 Lb./LF, 15' Span Live Load, Span, 3,000 PSI.....	239.45	
	For 3,500 PSI Concrete, Add	6.54	
	For 4,000 PSI Concrete, Add	9.82	
	For 4,500 PSI Concrete, Add	13.07	
	For 5,000 PSI Concrete, Add	19.63	
03 41 26 00-0023	LF Precast Structural Sections, 3,000 Lb./LF, 20' Span Live Load, Span, 3,000 PSI.....	287.34	
	For 3,500 PSI Concrete, Add	7.84	
	For 4,000 PSI Concrete, Add	11.78	
	For 4,500 PSI Concrete, Add	15.69	
	For 5,000 PSI Concrete, Add	23.56	

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0024 LF Precast Structural Sections, 3,000 Lb./LF, 30' Span Live Load, Span, 3,000 PSI For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	383.12 10.46 15.71 20.92 31.42	
03 41 26 00-0025 5,000 Lb./LF Live Load (03 41 26 00-0016)		
03 41 26 00-0026 LF Precast Structural Sections, 5,000 Lb./LF, 15' Span Live Load, Span, 3,000 PSI For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	335.23 9.15 13.74 18.30 27.49	
03 41 26 00-0027 LF Precast Structural Sections, 5,000 Lb./LF, 20' Span Live Load, Span, 3,000 PSI For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	383.12 10.46 15.71 20.92 31.42	
03 41 26 00-0028 LF Precast Structural Sections, 5,000 Lb./LF, 30' Span Live Load, Span, 3,000 PSI For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	478.91 13.07 19.64 26.15 39.27	
03 41 26 00-0029 Precast Concrete Columns (03 41 26)		
03 41 26 00-0030 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0029) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0031 EA Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	319.00	255.17
03 41 26 00-0032 EA Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	339.16	271.28
03 41 26 00-0033 EA Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	363.49	290.81
03 41 26 00-0034 EA Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	389.89	311.91
03 41 26 00-0035 EA Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	420.44	336.29
03 41 26 00-0036 EA Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	456.18	364.94
03 41 26 00-0037 EA Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	498.55	398.86
03 41 26 00-0038 Material Cost (03 41 26 00-0029) Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.		
03 41 26 00-0039 12" x 12" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0040 CY 12" x 12" Precast Column, Tied, Average Reinforced 351 Lb./CY For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	991.49 74.36 139.80 206.23 280.59	
03 41 26 00-0041 16" x 16" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0042 CY 16" x 16" Precast Column, Tied, Average Reinforced 368 Lb./CY For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	1,015.97 76.20 143.25 211.32 287.52	
03 41 26 00-0043 20" x 20" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0044 CY 20" x 20" Precast Column, Tied, Average Reinforced 357 Lb./CY For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	1,017.93 76.34 143.53 211.73 288.07	
03 41 26 00-0045 24" x 24" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0046 CY 24" x 24" Precast Column, Tied, Average Reinforced 365 Lb./CY For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	1,017.93 76.34 143.53 211.73 288.07	
03 41 26 00-0047 28" x 28" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0048 CY 28" x 28" Precast Column, Tied, Average Reinforced 347 Lb./CY For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	1,017.93 76.34 143.53 211.73 288.07	
03 41 26 00-0049 32" x 32" Column, Square, Tied (03 41 26 00-0038)		



	Concrete	03	CS
	Precast Concrete	03 40	
	Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0050 CY 32" x 32" Precast Column, Tied, Average Reinforced 351 Lb./CY..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	1,015.97 76.20 143.25 211.32 287.52	
03 41 26 00-0051 36" x 36" Column, Square, Tied (03 41 26 00-0038)		
03 41 26 00-0052 CY 36" x 36" Precast Column, Tied, Average Reinforced 278 Lb./CY..... For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	1,017.93 76.34 143.53 211.73 288.07	
03 41 33 Precast Structural Pretensioned Concrete (03 41)		
03 41 33 00-0001 Slabs, Roof And Floor Members (03 41 33)		
03 41 33 00-0002 SF 4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor.....	20.23	2.61
03 41 33 00-0003 SF 6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor.....	25.21	2.61
03 41 33 00-0004 SF 8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor.....	30.21	2.74
03 41 33 00-0005 SF 10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor.....	35.22	2.87
03 41 33 00-0006 Tee Members (03 41 33)		
03 41 33 00-0007 Multiple Tee, Roof And Floor (03 41 33 00-0006)		
03 41 33 00-0008 SF Prestressed Multiple Tee, Roof And Floor Members	45.46	3.39
03 41 33 00-0009 Double Tee Wall Member (03 41 33 00-0006)		
03 41 33 00-0010 SF Prestressed Double Tee Wall Members Precast Concrete, <40' Span.....	64.29	9.26
03 41 33 00-0011 Single Tee, Short Span, Roof Members (03 41 33 00-0006)		
03 41 33 00-0012 SF Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span.....	53.42	5.61
03 41 33 00-0013 Single Tee, Long Span, Roof Members (03 41 33 00-0006)		
03 41 33 00-0014 SF Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span	64.12	4.83
03 41 33 00-0015 Prestressed Concrete Items (03 41 33)		
03 41 33 00-0016 Prestressed Quad Tee (03 41 33 00-0015)		
03 41 33 00-0017 SF Tees, Prestressed Quad Tee, Short Spans, Roof.....	32.93	1.04
03 41 33 00-0018 SF Tees, Prestressed Quad Tee, Short Spans, Floor	34.37	1.04
03 41 33 00-0019 Prestressed Double Tee (03 41 33 00-0015)		
03 41 33 00-0020 SF Tees, Double Tee, Floor Members , 60' Span	54.76	0.91
03 41 33 00-0021 SF Tees, Double Tee, Floor Members , 80' Span	75.41	0.91
03 41 33 00-0022 SF Tees, Double Tee, Roof Members, 30' Span	37.36	1.56
03 41 33 00-0023 SF Tees, Double Tee, Roof Members, 50' Span	57.90	1.04
03 41 33 00-0024 SF Tees, Double Tee, Wall Members, Up To 55' High.....	40.48	2.09
03 41 33 00-0025 Prestressed Single Tee (03 41 33 00-0015)		
03 41 33 00-0026 SF Tees, Single Tee Roof Members, 40' Span	64.79	2.35
03 41 33 00-0027 SF Tees, Single Tee Roof Members, 80' Span	75.06	1.44
03 41 33 00-0028 SF Tees, Single Tee Roof Members, 100' Span	99.32	1.30
03 41 33 00-0029 SF Tees, Single Tee Roof Members, 120' Span	104.59	1.30
03 41 33 00-0030 Prestressed Double Tee Floor Members (03 41 33 00-0015)		
03 41 33 00-0031 EA Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'	16,754.84	375.78
03 41 33 00-0032 EA Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'	18,243.89	417.54
03 41 33 00-0033 EA Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'	30,522.86	469.73
03 41 33 00-0034 EA Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'	6,557.95	341.72
03 41 33 00-0035 EA Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'	8,612.31	375.78
03 41 33 00-0036 EA Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'	11,007.17	375.78
03 41 33 00-0037 EA Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'	12,256.74	417.54
03 41 33 00-0038 EA Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'	15,674.72	469.73
03 41 33 00-0039 EA Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'	28,212.19	537.06
03 41 33 00-0040 Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab (03 41 33)		
03 41 33 00-0041 SF Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete	34.79	
03 41 33 00-0042 SF Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete	36.22	
03 41 33 00-0043 SF Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete	37.91	

03 Concrete**03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0044 SF Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete	39.16	
03 41 33 00-0045 SF Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete	41.84	
03 41 33 00-0046 Double And Single Tees (03 41 33)		
03 41 33 00-0047 Double And Single Tees With 16" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0048 SF Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	42.05	
03 41 33 00-0049 SF Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	41.06	
03 41 33 00-0050 SF Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	38.77	
03 41 33 00-0051 SF Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	42.05	
03 41 33 00-0052 SF Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	41.92	
03 41 33 00-0053 SF Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	64.47	
03 41 33 00-0054 SF Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	63.04	
03 41 33 00-0055 SF Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	59.03	
03 41 33 00-0056 SF Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	64.47	
03 41 33 00-0057 SF Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	60.46	
03 41 33 00-0058 Double And Single Tees With 24" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0059 SF Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	43.34	
03 41 33 00-0060 SF Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	42.35	
03 41 33 00-0061 SF Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	40.93	
03 41 33 00-0062 SF Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	43.34	
03 41 33 00-0063 SF Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	41.92	
03 41 33 00-0064 SF Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	66.19	
03 41 33 00-0065 SF Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	64.77	
03 41 33 00-0066 SF Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	62.48	
03 41 33 00-0067 SF Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	66.19	
03 41 33 00-0068 SF Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	64.34	
03 41 33 00-0069 Double And Single Tees With 32" Roof And Floor Loading (03 41 33 00-0046)		
03 41 33 00-0070 SF Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	45.68	
03 41 33 00-0071 SF Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	44.24	
03 41 33 00-0072 SF Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	42.80	
03 41 33 00-0073 SF Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	70.25	
03 41 33 00-0074 SF Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	67.94	
03 41 33 00-0075 SF Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	65.22	
03 48 Precast Concrete Specialties (03 40)		
03 48 16 Precast Concrete Splash Blocks (03 48)		
03 48 16 00-0001 Precast Concrete Splash Blocks (03 48 16)		
03 48 16 00-0002 EA Precast Concrete Splash Blocks, 20" x 12" x 3"	44.36	4.32
03 48 21 Precast Concrete Handrails (03 48)		
03 48 21 00-0001 Installation Cost (03 48 21)		
Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.		
03 48 21 00-0002 EA Install Precast Handrails, 0-2 Ton/Handrail	179.76	80.93
03 48 21 00-0003 EA Install Precast Handrails, Over 2 Ton/Handrail	215.59	96.98
03 48 21 00-0004 Material Cost (03 48 21)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast operations.		
03 48 21 00-0005 CY 4" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,784.01	
For 3,500 PSI Concrete, Add	246.91	
For 4,000 PSI Concrete, Add	463.92	
For 4,500 PSI Concrete, Add	681.88	
For 5,000 PSI Concrete, Add	927.65	
03 48 21 00-0006 CY 5" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,927.70	
For 3,500 PSI Concrete, Add	256.28	
For 4,000 PSI Concrete, Add	481.54	
For 4,500 PSI Concrete, Add	707.77	
For 5,000 PSI Concrete, Add	962.88	
03 48 21 00-0007 CY 6" Thick 3,000 PSI Concrete Precast Concrete Handrail	4,071.40	
For 3,500 PSI Concrete, Add	265.66	
For 4,000 PSI Concrete, Add	499.15	
For 4,500 PSI Concrete, Add	733.67	
For 5,000 PSI Concrete, Add	998.10	
03 48 21 00-0008 CY 8" Thick 3,000 PSI Concrete Precast Concrete Handrail	4,262.99	
For 3,500 PSI Concrete, Add	278.16	
For 4,000 PSI Concrete, Add	522.64	
For 4,500 PSI Concrete, Add	768.19	
For 5,000 PSI Concrete, Add	1,045.07	
03 48 22 Precast Concrete Sun Screen and Trellis (03 48)		



Concrete		03	CS
Precast Concrete		03 40	
Precast Concrete Specialties		03 48	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
03 48 22 00-0001	Sun Screen Blades (03 48 22)				
03 48 22 00-0002	Installation Cost (03 48 22 00-0001)				
Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.					
03 48 22 00-0003	EA Install Precast Sun Screen Blade, 0-1 Ton/Each		89.88		40.46
03 48 22 00-0004	EA Install Precast Sun Screen Blade, 1-2 Ton/Each		107.99		48.56
03 48 22 00-0005	EA Install Precast Sun Screen Blade, 2-3 Ton/Each		134.92		60.76
03 48 22 00-0006	Material Cost (03 48 22 00-0001)				
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.					
03 48 22 00-0007	CY 4" Thick 3,000 PSI Concrete Precast Sun Screen Blades		4,023.50		
	For 3,500 PSI Concrete, Add		262.53		
	For 4,000 PSI Concrete, Add		493.28		
	For 4,500 PSI Concrete, Add		725.03		
	For 5,000 PSI Concrete, Add		986.36		
03 48 22 00-0008	CY 5" Thick 3,000 PSI Concrete Precast Sun Screen Blades		4,167.19		
	For 3,500 PSI Concrete, Add		271.91		
	For 4,000 PSI Concrete, Add		510.90		
	For 4,500 PSI Concrete, Add		750.93		
	For 5,000 PSI Concrete, Add		1,021.59		
03 48 22 00-0009	CY 6" Thick 3,000 PSI Concrete Precast Sun Screen Blades		4,358.79		
	For 3,500 PSI Concrete, Add		284.41		
	For 4,000 PSI Concrete, Add		534.39		
	For 4,500 PSI Concrete, Add		785.45		
	For 5,000 PSI Concrete, Add		1,068.56		
03 48 22 00-0010	CY 8" Thick 3,000 PSI Concrete Precast Sun Screen Blades		4,550.39		
	For 3,500 PSI Concrete, Add		296.91		
	For 4,000 PSI Concrete, Add		557.88		
	For 4,500 PSI Concrete, Add		819.98		
	For 5,000 PSI Concrete, Add		1,115.53		
03 48 22 00-0011	Sun Screen/Trellis Units (03 48 22)				
03 48 22 00-0012	Installation Cost Using A 50 Ton Hydraulic Crane (03 48 22 00-0011)				
Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.					
03 48 22 00-0013	EA Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane		419.77		188.87
03 48 22 00-0014	EA Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane		469.53		211.36
03 48 22 00-0015	EA Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane		532.68		239.68
03 48 22 00-0016	EA Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane		569.31		256.19
03 48 22 00-0017	Material Cost (03 48 22 00-0011)				
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.					
03 48 22 00-0018	CY 4" Thick 3,000 PSI Concrete Precast Trellises Blades		4,646.18		
	For 3,500 PSI Concrete, Add		303.16		
	For 4,000 PSI Concrete, Add		569.62		
	For 4,500 PSI Concrete, Add		837.24		
	For 5,000 PSI Concrete, Add		1,139.01		
03 48 22 00-0019	CY 5" Thick 3,000 PSI Concrete Precast Trellises Blades		4,789.88		
	For 3,500 PSI Concrete, Add		312.54		
	For 4,000 PSI Concrete, Add		587.24		
	For 4,500 PSI Concrete, Add		863.14		
	For 5,000 PSI Concrete, Add		1,174.24		
03 48 22 00-0020	CY 6" Thick 3,000 PSI Concrete Precast Trellises Blades		4,981.48		
	For 3,500 PSI Concrete, Add		325.04		
	For 4,000 PSI Concrete, Add		610.73		
	For 4,500 PSI Concrete, Add		897.66		
	For 5,000 PSI Concrete, Add		1,221.21		
03 48 22 00-0021	CY 8" Thick 3,000 PSI Concrete Precast Trellises Blades		5,220.97		
	For 3,500 PSI Concrete, Add		340.67		
	For 4,000 PSI Concrete, Add		640.09		
	For 4,500 PSI Concrete, Add		940.82		
	For 5,000 PSI Concrete, Add		1,279.92		
03 48 24	Precast Minaret Segments (03 48)				
03 48 24 00-0001	Installation Costs Using A 50 Ton Hydraulic Crane (03 48 24)				
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.					
03 48 24 00-0002	L - Shaped Segments (03 48 24 00-0001)				
03 48 24 00-0003	EA Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane		408.47		326.78
03 48 24 00-0004	EA Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane		457.73		366.21
03 48 24 00-0005	EA Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane		517.56		414.03
03 48 24 00-0006	EA Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane		552.06		441.64
03 48 24 00-0007	O - Shaped Segments (03 48 24 00-0001)				
03 48 24 00-0008	EA Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane		431.70		345.43
03 48 24 00-0009	EA Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane		484.52		387.55
03 48 24 00-0010	EA Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane		548.73		438.94
03 48 24 00-0011	EA Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane		587.67		470.11

03 Concrete**03 40 Precast Concrete****03 48 Precast Concrete Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 24 00-0012 Platform Segment (03 48 24 00-0001)		
03 48 24 00-0013 EA Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	828.09	662.53
03 48 24 00-0014 EA Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	1,000.98	800.73
03 48 24 00-0015 EA Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	1,110.85	888.69
03 48 24 00-0016 EA Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	1,247.80	998.29
03 48 24 00-0017 Cap Segment (03 48 24 00-0001)		
03 48 24 00-0018 EA Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	453.18	362.51
03 48 24 00-0019 EA Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	506.05	404.78
03 48 24 00-0020 EA Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	576.51	461.14
03 48 24 00-0021 EA Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	615.47	492.31
03 48 24 00-0022 Installation Costs Using A 90 Ton Crawler Crane (03 48 24)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023 L - Shaped Segments (03 48 24 00-0022)		
03 48 24 00-0024 EA Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	409.12	327.31
03 48 24 00-0025 EA Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	458.46	366.79
03 48 24 00-0026 EA Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	518.38	414.69
03 48 24 00-0027 EA Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	552.94	442.34
03 48 24 00-0028 O - Shaped Segment (03 48 24 00-0022)		
03 48 24 00-0029 EA Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	432.39	345.98
03 48 24 00-0030 EA Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	485.29	388.17
03 48 24 00-0031 EA Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	549.60	439.64
03 48 24 00-0032 EA Install Minaret, O-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	588.61	470.86
03 48 24 00-0033 Platform Segment (03 48 24 00-0022)		
03 48 24 00-0034 EA Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	661.12	528.87
03 48 24 00-0035 EA Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	800.30	640.21
03 48 24 00-0036 EA Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	885.78	708.63
03 48 24 00-0037 EA Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	1,002.58	802.01
03 48 24 00-0038 Cap Segment (03 48 24 00-0022)		
03 48 24 00-0039 EA Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	453.90	363.08
03 48 24 00-0040 EA Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	506.86	405.42
03 48 24 00-0041 EA Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	577.43	461.88
03 48 24 00-0042 EA Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	616.45	493.10
03 48 24 00-0043 Material Costs (03 48 24)		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044 CY Precast Concrete Minaret, L-Shaped Segments, 3,000 PSI Concrete	11,495.07	
Note: Including Post Tension Cost		
03 48 24 00-0045 CY Precast Concrete Minaret, O-Shaped Segments, 3,000 PSI Concrete	11,495.07	
Note: Including Post Tension Cost		
03 48 24 00-0046 CY Precast Concrete Minaret, Platform Segments, 3,000 PSI Concrete	11,495.07	
Note: Including Post Tension Cost		
03 48 24 00-0047 CY Precast Concrete Minaret, Cap Segments, 3,000 PSI Concrete	11,495.07	
Note: Including Post Tension Cost		
03 48 29 Precast Accessories (03 48)		
Note: Includes installation labor, material and equipment.		
03 48 29 00-0001 Bearing Pads For Precast Members (03 48 29)		
03 48 29 00-0002 Continuous 2" Wide Strips (03 48 29 00-0001)		
03 48 29 00-0003 LF Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips	1.48	
Note: For precast members		
03 48 29 00-0004 LF Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips	2.07	
Note: For precast members		
03 48 29 00-0005 LF Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips	3.39	
Note: For precast members		
03 48 29 00-0006 LF Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips	4.73	
Note: For precast members		
03 48 29 00-0007 LF Bearing Pads, Continuous 2" Wide x 1" Thick Strips	6.13	
Note: For precast members		
03 48 29 00-0008 LF Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips	8.78	
Note: For precast members		
03 48 29 00-0009 Bearing Pad Pipe Supports (03 48 29)		
03 48 29 00-0010 LF 4" x 4" Precast Pipe Support	16.31	



	Concrete	03	CS
	Precast Concrete	03 40	
	Precast Concrete Specialties	03 48	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 48 46 Precast Skylight Shells (03 48)

03 48 46 00-0001 Installation Cost Using A 90 Ton Crawler Crane (03 48 46)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.

03 48 46 00-0002	EA	Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane	589.80	265.44
03 48 46 00-0003	EA	Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane	654.91	294.72
03 48 46 00-0004	EA	Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane	736.18	331.28

03 48 46 00-0005 Material Cost (03 48 46)

Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.

03 48 46 00-0006	CY	3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius	4,809.17	

03 48 49 Precast Landings (03 48)

03 48 49 00-0001	SF	3" Thick Precast Landing	118.26	
03 48 49 00-0002	SF	4" Thick Precast Landing	138.00	
03 48 49 00-0003	SF	5" Thick Precast Landing	156.63	
03 48 49 00-0004	SF	6" Thick Precast Landing	180.54	

03 48 54 Precast Concrete Blocks (03 48)

03 48 54 00-0001 Precast Interlocking Concrete Blocks (03 48 54)

Note: Includes lifting loop

03 48 54 00-0002	EA	2' x 2' x 2' Precast Interlocking Concrete (Ecology) Block	162.01	47.89
03 48 54 00-0003	EA	2' x 2' x 3' Precast Interlocking Concrete (Ecology) Block	193.50	53.88
03 48 54 00-0004	EA	2' x 2' x 4' Precast Interlocking Concrete (Ecology) Block	224.98	59.86
03 48 54 00-0005	EA	2' x 2' x 6' Precast Interlocking Concrete (Ecology) Block	304.44	65.86
03 48 54 00-0006	EA	2' x 2' x 8' Precast Interlocking Concrete (Ecology) Block	365.94	71.85

03 50 Cast Decks and Underlayment (03)

03 53 Concrete Topping (03 50)

Note: Installed over new or existing concrete.

03 53 14 Granolithic Concrete Topping (03 53)

03 53 14 00-0001 Granolithic Topping Laid After (03 53 14)

Note: Using 1:1:1-1/2 mix.

03 53 14 00-0002	SF	1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.92	
03 53 14 00-0003	SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	5.29	
03 53 14 00-0004	SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	6.61	

03 53 19 Concrete Overlayment (03 53)

03 53 19 00-0001 Integral Topping Including Hard Trowel Finish (03 53 19)

Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.92	
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.26	
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.80	
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.49	
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	6.33	
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.36	
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.98	

03 54 Cast Underlayment (03 50)

Note: Includes primer. Excludes sandblasting existing smooth finished concrete surface (where necessary).

03 54 16 Hydraulic Cement Underlayment (03 54)

03 54 16 00-0001 Self Leveling Cementitious Underlayment For Floors (03 54 16)

Note: Includes primer.

03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors	2.06	
Note: Including Surface Preparation				
For Up To 100 SF, Add			0.17	
For >100 To 250 SF, Add			0.08	
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors	3.55	
Note: Including Surface Preparation				
For Up To 100 SF, Add			0.17	
For >100 To 250 SF, Add			0.08	
03 54 16 00-0004	SF	3/8" Thick Self Leveling Cementitious Underlayment For Floors	5.04	
Note: Including Surface Preparation				
For Up To 100 SF, Add			0.17	
For >100 To 250 SF, Add			0.08	

03 Concrete**03 50 Cast Decks and Underlayment****03 54 Cast Underlayment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 54 16 00-0005	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation	6.54	
		For Up To 100 SF, Add	0.17	
		For >100 To 250 SF, Add	0.08	
03 54 16 00-0006	SF	5/8" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation	8.03	
		For Up To 100 SF, Add	0.17	
		For >100 To 250 SF, Add	0.08	
03 54 16 00-0007	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation	9.57	
		For Up To 100 SF, Add	0.19	
		For >100 To 250 SF, Add	0.10	
03 54 16 00-0008	SF	1" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation	12.56	
		For Up To 100 SF, Add	0.19	
		For >100 To 250 SF, Add	0.10	
03 54 16 00-0009	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation	15.60	
		For Up To 100 SF, Add	0.22	
		For >100 To 250 SF, Add	0.11	
03 54 16 00-0010	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation	18.58	
		For Up To 100 SF, Add	0.22	
		For >100 To 250 SF, Add	0.11	
03 54 16 00-0011	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors Note: Including Surface Preparation	21.69	
		For Up To 100 SF, Add	0.28	
		For >100 To 250 SF, Add	0.14	

03 60 Grouting (03)**03 61 Cementitious Grouting** (03 60)

Note: 1 part cement to 3 parts sand by volume.

03 61 16 Cementitious Flowable Grout (03 61)

03 61 16 00-0001		Cementitious Flowable Grout (03 61 16)		
03 61 16 00-0002	CY	Cementitious Flowable Grout.....	502.70	

03 62 Non-Shrink Grouting (03 60)**03 62 13 Non-Metallic Non-Shrink Grouting** (03 62)

03 62 13 00-0001		Fluid Type, Non-Metallic Non-Shrink Grouting For Bases (03 62 13)		
03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	30.40	
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	44.90	
03 62 13 00-0004		Non-Metallic Non-Shrink Grouting For Bases (03 62 13)		
03 62 13 00-0005	SF	1" Deep, Non-Metallic Non-Shrink Grout For Bases.....	45.06	
03 62 13 00-0006	SF	2" Deep, Non-Metallic Non-Shrink Grout For Bases.....	71.54	
03 62 13 00-0007		Non-Metallic Non-Shrink Grouting For Joints (03 62 13)		
03 62 13 00-0008		1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)		
03 62 13 00-0009	LF	4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.34	
03 62 13 00-0010	LF	6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	3.07	
03 62 13 00-0011	LF	8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	4.06	
03 62 13 00-0012		1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)		
03 62 13 00-0013	LF	4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.44	
03 62 13 00-0014	LF	6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	4.57	
03 62 13 00-0015	LF	8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	6.07	
03 62 16		Metallic Non-Shrink Grouting (03 62)		
03 62 16 00-0001		Metallic Non-Shrink Grouting For Bases (03 62 16)		
03 62 16 00-0002	SF	1" Deep, Metallic Non-Shrink Grout For Bases.....	38.67	
03 62 16 00-0003	SF	2" Deep, Metallic Non-Shrink Grout For Bases.....	59.15	
03 62 16 00-0004		Metallic Non-Shrink Grouting For Joints (03 62 16)		
03 62 16 00-0005		1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)		
03 62 16 00-0006	LF	4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	1.94	
03 62 16 00-0007	LF	6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	2.46	
03 62 16 00-0008	LF	8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	3.28	



		Concrete	03	03
		Grouting	03 60	
		Non-Shrink Grouting	03 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 62 16 00-0009	1" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)	
03 62 16 00-0010	LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.66
03 62 16 00-0011	LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	3.36
03 62 16 00-0012	LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	4.49

03 63 Epoxy Grouting (03 60)

03 63 00 00-0001	Spray On Concrete Epoxy Grout (03 63)	
Note: (Sika 224) per thickness per coat.		
03 63 00 00-0002	SF 1/4" Thick Coat Spray On Concrete Epoxy Grout.....	4.47
	For Color, Add	1.16
03 63 00 00-0003	SF 3/8" Thick Coat Spray On Concrete Epoxy Grout.....	6.18
	For Color, Add	1.74
03 63 00 00-0004	SF 1/2" Thick Coat Spray On Concrete Epoxy Grout.....	7.92
	For Color, Add	2.33
03 63 00 00-0005	SF 5/8" Thick Coat Spray On Concrete Epoxy Grout.....	9.47
	For Color, Add	2.91
03 63 00 00-0006	SF 3/4" Thick Coat Spray On Concrete Epoxy Grout.....	11.05
	For Color, Add	3.50
03 63 00 00-0007	SF 1" Thick Coat Spray On Concrete Epoxy Grout.....	14.30
	For Color, Add	4.67

03 64 Injection Grouting (03 60)

Note: By volume of void filled. Includes injection ports.

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001	Pressure Injected Epoxy Grout (03 64 23)	
03 64 23 00-0002	CF Pressure Injected Epoxy Grout.....	1,414.09
	For >4, Deduct	-149.38

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001	Pressure Injected Cementitious Grout (03 64 26)	
03 64 26 00-0002	CF Pressure Injected Cementitious Grout.....	249.06
	For >4, Deduct	-64.09

03 80 Concrete Cutting and Boring (03)

03 81 Concrete Cutting (03 80)

03 81 13	Flat Concrete Sawing (03 81)	
See CSI section 02 41 19 13-0057 for saw cutting.		
03 81 16	Track Mounted Concrete Wall Sawing (03 81)	
See CSI section 02 41 19 13-0057 for saw cutting.		

03 82 Concrete Boring (03 80)

03 82 13	Concrete Core Drilling (03 82)	
See CSI section 02 41 19 13-0080 for core drilling.		

END OF SECTION 03

03	03	Concrete
	03 80	Concrete Cutting and Boring
	03 82	Concrete Boring



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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	Metals	05	
	Maintenance of Metals	05 01	05
	Maintenance of Metal Fabrications	05 01 50	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 Metals

05 01 Maintenance of Metals ⁽⁰⁵⁾

05 01 50 Maintenance of Metal Fabrications ^(05 01)

05 01 50 51 Cleaning of Metal Fabrications ^(05 01 50)

See CSI section 09 01 90 52-0012 for cleaning of metal surfaces.

05 01 50 61 Repair of Metal Fabrications ^(05 01 50)

See CSI section 05 05 21 00-0001 for welding, 05 05 23 00-0008 for torch cutting.

05 01 50 63 Refinishing of Metal Fabrications ^(05 01 50)

See CSI section 05 12 23 00-0143 for field applied cold galvanizing, 05 12 23 00-0145 for metal grinding.

05 01 70 Maintenance of Decorative Metal ^(05 01)

05 01 70 51 Cleaning of Decorative Metal ^(05 01 70)

See CSI section 09 01 90 52-0012 for cleaning of metal surfaces.

05 01 70 61 Repair of Decorative Metal ^(05 01 70)

See CSI section 05 05 21 00-0001 for welding, 05 05 23 00-0008 for torch cutting.

05 01 70 63 Refinishing of Decorative Metal ^(05 01 70)

See CSI section 05 12 23 00-0143 for field applied cold galvanizing, 05 12 23 00-0145 for metal grinding.

05 05 Common Work Results for Metals ⁽⁰⁵⁾

05 05 19 Post-Installed Concrete Anchors ^(05 05)

See CSI section 03 15 19 00-0000 for cast-in concrete anchors.

05 05 19 00-0001 Concrete And Masonry Anchors ^(05 05 19)

05 05 19 00-0002 Expansion Anchors ^(05 05 19 00-0001)

Note: Includes drilling.

05 05 19 00-0003 Wedge Expansion Bolt Anchors ^(05 05 19 00-0002)

05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt ^(05 05 19 00-0003)

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.70
	For >10 To 50, Deduct	-0.71
	For >50 To 100, Deduct	-1.43
	For >100, Deduct	-2.85
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.79
	For >10 To 50, Deduct	-0.71
	For >50 To 100, Deduct	-1.43
	For >100, Deduct	-2.86
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.23
	For >10 To 50, Deduct	-0.72
	For >50 To 100, Deduct	-1.47
	For >100, Deduct	-2.94
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	18.00
	For >10 To 50, Deduct	-0.86
	For >50 To 100, Deduct	-1.74
	For >100, Deduct	-3.48
05 05 19 00-0009	EA 3/8" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	18.07
	For >10 To 50, Deduct	-0.86
	For >50 To 100, Deduct	-1.74
	For >100, Deduct	-3.48
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	18.08
	For >10 To 50, Deduct	-0.86
	For >50 To 100, Deduct	-1.74
	For >100, Deduct	-3.48
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	18.35
	For >10 To 50, Deduct	-0.86
	For >50 To 100, Deduct	-1.75
	For >100, Deduct	-3.49
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.90
	For >10 To 50, Deduct	-1.22
	For >50 To 100, Deduct	-2.48
	For >100, Deduct	-4.96
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.95
	For >10 To 50, Deduct	-1.22
	For >50 To 100, Deduct	-2.48
	For >100, Deduct	-4.96
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	26.06
	For >10 To 50, Deduct	-1.22
	For >50 To 100, Deduct	-2.48
	For >100, Deduct	-4.96
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	26.36
	For >10 To 50, Deduct	-1.22
	For >50 To 100, Deduct	-2.49
	For >100, Deduct	-4.98

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0016 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.77	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-2.50	
For >100, Deduct	-5.00	
05 05 19 00-0017 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	33.14	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-3.09	
For >100, Deduct	-6.18	
05 05 19 00-0018 EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	33.23	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-3.09	
For >100, Deduct	-6.18	
05 05 19 00-0019 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.42	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-3.09	
For >100, Deduct	-6.19	
05 05 19 00-0020 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.78	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-3.10	
For >100, Deduct	-6.21	
05 05 19 00-0021 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.14	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-3.11	
For >100, Deduct	-6.23	
05 05 19 00-0022 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	37.02	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-3.18	
For >100, Deduct	-6.37	
05 05 19 00-0023 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	39.49	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-3.25	
For >100, Deduct	-6.49	
05 05 19 00-0024 EA 3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	39.83	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-3.68	
For >100, Deduct	-7.37	
05 05 19 00-0025 EA 3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	39.91	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-3.69	
For >100, Deduct	-7.37	
05 05 19 00-0026 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	40.35	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-3.70	
For >100, Deduct	-7.39	
05 05 19 00-0027 EA 3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	40.88	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-3.71	
For >100, Deduct	-7.42	
05 05 19 00-0028 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	41.48	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-3.73	
For >100, Deduct	-7.45	
05 05 19 00-0029 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	43.79	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-3.78	
For >100, Deduct	-7.57	
05 05 19 00-0030 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	46.85	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-3.86	
For >100, Deduct	-7.72	
05 05 19 00-0031 EA 3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	50.31	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-3.95	
For >100, Deduct	-7.89	
05 05 19 00-0032 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	50.30	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-4.17	
For >100, Deduct	-8.35	
05 05 19 00-0033 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	52.12	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-4.22	
For >100, Deduct	-8.44	
05 05 19 00-0034 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	54.53	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-4.28	
For >100, Deduct	-8.56	
05 05 19 00-0035 EA 1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	63.02	
For >10 To 50, Deduct	-2.52	
For >50 To 100, Deduct	-5.35	
For >100, Deduct	-10.70	
05 05 19 00-0036 EA 1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	66.44	
For >10 To 50, Deduct	-2.52	
For >50 To 100, Deduct	-5.44	
For >100, Deduct	-10.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	69.84	
			For >10 To 50, Deduct	-2.52	
			For >50 To 100, Deduct	-5.52	
			For >100, Deduct	-11.04	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	81.71	
			For >10 To 50, Deduct	-3.22	
			For >50 To 100, Deduct	-6.88	
			For >100, Deduct	-13.75	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	84.16	
			For >10 To 50, Deduct	-3.22	
			For >50 To 100, Deduct	-6.94	
			For >100, Deduct	-13.87	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003) Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.52	
			For >10 To 50, Deduct	-0.71	
			For >50 To 100, Deduct	-1.47	
			For >100, Deduct	-2.94	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.08	
			For >10 To 50, Deduct	-0.71	
			For >50 To 100, Deduct	-1.49	
			For >100, Deduct	-2.97	
05 05 19 00-0043	EA		1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.81	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.53	
			For >100, Deduct	-3.06	
05 05 19 00-0044	EA		3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.22	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.82	
			For >100, Deduct	-3.64	
05 05 19 00-0045	EA		3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.70	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.83	
			For >100, Deduct	-3.66	
05 05 19 00-0046	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.05	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.84	
			For >100, Deduct	-3.68	
05 05 19 00-0047	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.67	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.90	
			For >100, Deduct	-3.81	
05 05 19 00-0048	EA		1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.90	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.65	
			For >100, Deduct	-5.31	
05 05 19 00-0049	EA		1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	33.80	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.68	
			For >100, Deduct	-5.35	
05 05 19 00-0050	EA		1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.33	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.69	
			For >100, Deduct	-5.38	
05 05 19 00-0051	EA		1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.72	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.75	
			For >100, Deduct	-5.50	
05 05 19 00-0052	EA		1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.31	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.84	
			For >100, Deduct	-5.68	
05 05 19 00-0053	EA		5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.35	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.44	
			For >100, Deduct	-6.89	
05 05 19 00-0054	EA		5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	49.68	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.50	
			For >100, Deduct	-7.00	
05 05 19 00-0055	EA		5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	52.21	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.56	
			For >100, Deduct	-7.13	
05 05 19 00-0056	EA		5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	55.57	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.65	
			For >100, Deduct	-7.30	
05 05 19 00-0057	EA		5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	70.33	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-4.02	
			For >100, Deduct	-8.03	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0058	EA	3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	56.52	
		For >10 To 50, Deduct	-1.79	
		For >50 To 100, Deduct	-4.10	
		For >100, Deduct	-8.20	
05 05 19 00-0059	EA	3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	61.27	
		For >10 To 50, Deduct	-1.79	
		For >50 To 100, Deduct	-4.22	
		For >100, Deduct	-8.44	
05 05 19 00-0060	EA	3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	65.33	
		For >10 To 50, Deduct	-1.79	
		For >50 To 100, Deduct	-4.32	
		For >100, Deduct	-8.64	
05 05 19 00-0061	EA	3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	65.83	
		For >10 To 50, Deduct	-1.79	
		For >50 To 100, Deduct	-4.33	
		For >100, Deduct	-8.67	
05 05 19 00-0062	EA	3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	69.63	
		For >10 To 50, Deduct	-1.79	
		For >50 To 100, Deduct	-4.43	
		For >100, Deduct	-8.86	
05 05 19 00-0063	EA	3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	79.52	
		For >10 To 50, Deduct	-1.79	
		For >50 To 100, Deduct	-4.68	
		For >100, Deduct	-9.35	
05 05 19 00-0064	EA	3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	93.46	
		For >10 To 50, Deduct	-1.79	
		For >50 To 100, Deduct	-5.02	
		For >100, Deduct	-10.05	
05 05 19 00-0065	EA	7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	93.93	
		For >10 To 50, Deduct	-1.94	
		For >50 To 100, Deduct	-5.27	
		For >100, Deduct	-10.53	
05 05 19 00-0066	EA	1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	136.65	
		For >10 To 50, Deduct	-2.52	
		For >50 To 100, Deduct	-7.19	
		For >100, Deduct	-14.38	
05 05 19 00-0067	EA	1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	157.27	
		For >10 To 50, Deduct	-2.52	
		For >50 To 100, Deduct	-7.71	
		For >100, Deduct	-15.41	
05 05 19 00-0068		316 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003) Note: Includes nut and washer.		
05 05 19 00-0069	EA	1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.01	
		For >10 To 50, Deduct	-0.71	
		For >50 To 100, Deduct	-1.48	
		For >100, Deduct	-2.97	
05 05 19 00-0070	EA	1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.02	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.54	
		For >100, Deduct	-3.07	
05 05 19 00-0071	EA	3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.78	
		For >10 To 50, Deduct	-0.86	
		For >50 To 100, Deduct	-1.86	
		For >100, Deduct	-3.71	
05 05 19 00-0072	EA	3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	23.61	
		For >10 To 50, Deduct	-0.86	
		For >50 To 100, Deduct	-1.88	
		For >100, Deduct	-3.75	
05 05 19 00-0073	EA	3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	23.82	
		For >10 To 50, Deduct	-0.86	
		For >50 To 100, Deduct	-1.88	
		For >100, Deduct	-3.77	
05 05 19 00-0074	EA	3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.78	
		For >10 To 50, Deduct	-0.86	
		For >50 To 100, Deduct	-1.98	
		For >100, Deduct	-3.96	
05 05 19 00-0075	EA	1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.68	
		For >10 To 50, Deduct	-1.22	
		For >50 To 100, Deduct	-2.75	
		For >100, Deduct	-5.49	
05 05 19 00-0076	EA	1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.98	
		For >10 To 50, Deduct	-1.22	
		For >50 To 100, Deduct	-2.80	
		For >100, Deduct	-5.61	
05 05 19 00-0077	EA	1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	43.15	
		For >10 To 50, Deduct	-1.22	
		For >50 To 100, Deduct	-2.91	
		For >100, Deduct	-5.82	
05 05 19 00-0078	EA	1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.19	
		For >10 To 50, Deduct	-1.22	
		For >50 To 100, Deduct	-2.93	
		For >100, Deduct	-5.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.13	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.76	
			For >100, Deduct	-7.52	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	61.38	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.79	
			For >100, Deduct	-7.59	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	74.40	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-4.55	
			For >100, Deduct	-9.10	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	79.62	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-4.68	
			For >100, Deduct	-9.36	
05 05 19 00-0083 Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)					
Note: Includes nut and washer.					
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	30.36	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.59	
			For >100, Deduct	-5.18	
05 05 19 00-0085	EA		1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	31.93	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.63	
			For >100, Deduct	-5.26	
05 05 19 00-0086	EA		1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	33.50	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.67	
			For >100, Deduct	-5.34	
05 05 19 00-0087	EA		1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	34.28	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.69	
			For >100, Deduct	-5.37	
05 05 19 00-0088	EA		5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	41.42	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.29	
			For >100, Deduct	-6.59	
05 05 19 00-0089	EA		5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	39.53	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.25	
			For >100, Deduct	-6.49	
05 05 19 00-0090	EA		3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	53.42	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-4.02	
			For >100, Deduct	-8.05	
05 05 19 00-0091	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	55.15	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-4.07	
			For >100, Deduct	-8.13	
05 05 19 00-0092	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	63.64	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-4.28	
			For >100, Deduct	-8.56	
05 05 19 00-0093	EA		1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	68.42	
			For >10 To 50, Deduct	-2.52	
			For >50 To 100, Deduct	-5.49	
			For >100, Deduct	-10.97	
05 05 19 00-0094	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	73.30	
			For >10 To 50, Deduct	-2.52	
			For >50 To 100, Deduct	-5.61	
			For >100, Deduct	-11.21	
05 05 19 00-0095	EA		1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	78.14	
			For >10 To 50, Deduct	-2.52	
			For >50 To 100, Deduct	-5.73	
			For >100, Deduct	-11.46	
05 05 19 00-0096 Concrete Sleeve Anchors (05 05 19 00-0002)					
05 05 19 00-0097 Zinc Plated Steel, Concrete Sleeve Anchors (05 05 19 00-0096)					
Note: Includes nut and washer.					
05 05 19 00-0098	EA		1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.86	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.45	
			For >100, Deduct	-2.91	
05 05 19 00-0099	EA		1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.99	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.46	
			For >100, Deduct	-2.91	
05 05 19 00-0100	EA		1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.15	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.46	
			For >100, Deduct	-2.92	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0101	EA		5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.64	
			For >10 To 50, Deduct	-0.76	
			For >50 To 100, Deduct	-1.53	
			For >100, Deduct	-3.05	
05 05 19 00-0102	EA		5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.76	
			For >10 To 50, Deduct	-0.76	
			For >50 To 100, Deduct	-1.53	
			For >100, Deduct	-3.06	
05 05 19 00-0103	EA		3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.71	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.73	
			For >100, Deduct	-3.46	
05 05 19 00-0104	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.93	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.73	
			For >100, Deduct	-3.47	
05 05 19 00-0105	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	18.14	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.74	
			For >100, Deduct	-3.48	
05 05 19 00-0106	EA		1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.40	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.46	
			For >100, Deduct	-4.93	
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.67	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.47	
			For >100, Deduct	-4.94	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.91	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.48	
			For >100, Deduct	-4.95	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.20	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.48	
			For >100, Deduct	-4.97	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	31.70	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.05	
			For >100, Deduct	-6.10	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.12	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.06	
			For >100, Deduct	-6.12	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.44	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.07	
			For >100, Deduct	-6.14	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.34	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.09	
			For >100, Deduct	-6.18	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	38.48	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-3.65	
			For >100, Deduct	-7.30	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	39.26	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-3.67	
			For >100, Deduct	-7.34	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	39.96	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-3.69	
			For >100, Deduct	-7.37	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	41.09	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-3.71	
			For >100, Deduct	-7.43	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	17.42	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.04	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	22.75	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.86	
			For >100, Deduct	-3.71	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	24.97	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.91	
			For >100, Deduct	-3.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	33.87	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.67	
			For >100, Deduct	-5.35	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	37.87	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.77	
			For >100, Deduct	-5.55	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	51.83	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.55	
			For >100, Deduct	-7.11	
05 05 19 00-0125			Concrete Strike Anchors (05 05 19 00-0002)		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	15.50	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.47	
			For >100, Deduct	-2.94	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor.....	15.72	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.48	
			For >100, Deduct	-2.95	
05 05 19 00-0128	EA		5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	16.43	
			For >10 To 50, Deduct	-0.76	
			For >50 To 100, Deduct	-1.55	
			For >100, Deduct	-3.09	
05 05 19 00-0129	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	17.34	
			For >10 To 50, Deduct	-0.76	
			For >50 To 100, Deduct	-1.57	
			For >100, Deduct	-3.14	
05 05 19 00-0130	EA		3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor.....	18.70	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.75	
			For >100, Deduct	-3.51	
05 05 19 00-0131	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor.....	19.39	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.77	
			For >100, Deduct	-3.54	
05 05 19 00-0132	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	19.92	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.78	
			For >100, Deduct	-3.57	
05 05 19 00-0133	EA		1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	27.09	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.51	
			For >100, Deduct	-5.01	
05 05 19 00-0134	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor.....	27.50	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.52	
			For >100, Deduct	-5.03	
05 05 19 00-0135	EA		1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	28.70	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.55	
			For >100, Deduct	-5.09	
05 05 19 00-0136	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	30.26	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.58	
			For >100, Deduct	-5.17	
05 05 19 00-0137	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	35.30	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.14	
			For >100, Deduct	-6.28	
05 05 19 00-0138	EA		5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	36.73	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.18	
			For >100, Deduct	-6.35	
05 05 19 00-0139	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	38.00	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.21	
			For >100, Deduct	-6.42	
05 05 19 00-0140	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	44.46	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-3.80	
			For >100, Deduct	-7.60	
05 05 19 00-0141	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	45.80	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-3.83	
			For >100, Deduct	-7.66	
05 05 19 00-0142			Multi-Set Drop-In Anchors (05 05 19 00-0002)		
05 05 19 00-0143			Zinc Plated Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	20.64	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.02	
For >100, Deduct	-4.04	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	25.22	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-2.47	
For >100, Deduct	-4.93	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	30.45	
For >10 To 50, Deduct	-1.44	
For >50 To 100, Deduct	-2.93	
For >100, Deduct	-5.85	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	34.21	
For >10 To 50, Deduct	-1.58	
For >50 To 100, Deduct	-3.23	
For >100, Deduct	-6.46	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	40.39	
For >10 To 50, Deduct	-1.80	
For >50 To 100, Deduct	-3.71	
For >100, Deduct	-7.43	
05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0150 EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	25.69	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.15	
For >100, Deduct	-4.30	
05 05 19 00-0151 EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	34.53	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-2.70	
For >100, Deduct	-5.40	
05 05 19 00-0152 EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	43.14	
For >10 To 50, Deduct	-1.44	
For >50 To 100, Deduct	-3.24	
For >100, Deduct	-6.48	
05 05 19 00-0153 EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	54.61	
For >10 To 50, Deduct	-1.58	
For >50 To 100, Deduct	-3.74	
For >100, Deduct	-7.48	
05 05 19 00-0154 EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	75.45	
For >10 To 50, Deduct	-1.80	
For >50 To 100, Deduct	-4.59	
For >100, Deduct	-9.18	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0156 EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	15.05	
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.46	
For >100, Deduct	-2.92	
05 05 19 00-0157 EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	16.00	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.54	
For >100, Deduct	-3.07	
05 05 19 00-0158 EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	18.10	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.74	
For >100, Deduct	-3.48	
05 05 19 00-0159 EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	26.20	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-2.48	
For >100, Deduct	-4.97	
05 05 19 00-0160 EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	35.13	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-3.14	
For >100, Deduct	-6.27	
05 05 19 00-0161 EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	42.21	
For >10 To 50, Deduct	-1.79	
For >50 To 100, Deduct	-3.74	
For >100, Deduct	-7.49	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)		
Note: Excludes lag bolt and washer.		
05 05 19 00-0163 EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	15.49	
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.47	
For >100, Deduct	-2.94	
05 05 19 00-0164 EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	18.42	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.75	
For >100, Deduct	-3.49	



		Metals	05
		Common Work Results for Metals	05 05
		Post-Installed Concrete Anchors	05 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0165	EA		3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	19.27	
			For >10 To 50, Deduct	-0.86	
			For >50 To 100, Deduct	-1.77	
			For >100, Deduct	-3.54	
05 05 19 00-0166	EA		1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	27.15	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.51	
			For >100, Deduct	-5.01	
05 05 19 00-0167	EA		5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	34.27	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.12	
			For >100, Deduct	-6.23	
05 05 19 00-0168	EA		3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	39.11	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-3.67	
			For >100, Deduct	-7.33	
05 05 19 00-0169			Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170			Chemically Adhered Anchor Rods (05 05 19 00-0169)		
			Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		
05 05 19 00-0171	EA		1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	18.41	
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.65	
			For >100, Deduct	-3.30	
05 05 19 00-0172	EA		5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	21.01	
			For >10 To 50, Deduct	-0.87	
			For >50 To 100, Deduct	-1.82	
			For >100, Deduct	-3.65	
05 05 19 00-0173	EA		3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	26.12	
			For >10 To 50, Deduct	-1.08	
			For >50 To 100, Deduct	-2.28	
			For >100, Deduct	-4.55	
05 05 19 00-0174	EA		1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	30.30	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.59	
			For >100, Deduct	-5.17	
05 05 19 00-0175	EA		1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	31.65	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.62	
			For >100, Deduct	-5.24	
05 05 19 00-0176	EA		5/8" x 7" Long Chemically Adhered Anchor Rod.....	39.15	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.24	
			For >100, Deduct	-6.47	
05 05 19 00-0177	EA		3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	49.83	
			For >10 To 50, Deduct	-1.79	
			For >50 To 100, Deduct	-3.93	
			For >100, Deduct	-7.87	
05 05 19 00-0178	EA		7/8" x 10" Long Chemically Adhered Anchor Rod.....	57.94	
			For >10 To 50, Deduct	-1.94	
			For >50 To 100, Deduct	-4.36	
			For >100, Deduct	-8.72	
05 05 19 00-0179	EA		1" x 11-3/4" Long Chemically Adhered Anchor Rod	78.34	
			For >10 To 50, Deduct	-2.52	
			For >50 To 100, Deduct	-5.73	
			For >100, Deduct	-11.47	
05 05 19 00-0180	EA		1-1/4" x 14" Long Chemically Adhered Anchor Rod	109.73	
			For >10 To 50, Deduct	-3.17	
			For >50 To 100, Deduct	-7.50	
			For >100, Deduct	-15.01	
05 05 19 00-0181			Chemical Adhesives For Bolts, Dowels Or Threaded Rod (05 05 19 00-0169)		
			Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Drill a hole 1/16" to 1/4" larger that the diameter of the thread and a depth a minimum of 4-1/2 times the diameter of the bolt. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA		5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	17.70	
			For >10 To 50, Deduct	-0.87	
			For >50 To 100, Deduct	-1.74	
			For >100, Deduct	-3.48	
05 05 19 00-0183	EA		3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	20.71	
			For >10 To 50, Deduct	-1.01	
			For >50 To 100, Deduct	-2.03	
			For >100, Deduct	-4.06	
05 05 19 00-0184	EA		1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	25.11	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.46	
			For >100, Deduct	-4.91	
05 05 19 00-0185	EA		5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	27.90	
			For >10 To 50, Deduct	-1.31	
			For >50 To 100, Deduct	-2.66	
			For >100, Deduct	-5.31	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0186 EA 3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	35.16	
For>10 To 50, Deduct	-1.60	
For>50 To 100, Deduct	-3.28	
For>100, Deduct	-6.56	
05 05 19 00-0187 EA 7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	38.51	
For>10 To 50, Deduct	-1.72	
For>50 To 100, Deduct	-3.54	
For>100, Deduct	-7.07	
05 05 19 00-0188 EA 1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	47.68	
For>10 To 50, Deduct	-2.07	
For>50 To 100, Deduct	-4.30	
For>100, Deduct	-8.59	
05 05 19 00-0189 EA 1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	52.59	
For>10 To 50, Deduct	-2.24	
For>50 To 100, Deduct	-4.68	
For>100, Deduct	-9.36	
05 05 19 00-0190 EA 1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	60.83	
For>10 To 50, Deduct	-2.54	
For>50 To 100, Deduct	-5.33	
For>100, Deduct	-10.66	
05 05 19 00-0191 EA 1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	67.95	
For>10 To 50, Deduct	-2.77	
For>50 To 100, Deduct	-5.85	
For>100, Deduct	-11.70	
05 05 19 00-0192 EA 1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	77.04	
For>10 To 50, Deduct	-3.01	
For>50 To 100, Deduct	-6.45	
For>100, Deduct	-12.89	
05 05 19 00-0193 EA 1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	95.95	
For>10 To 50, Deduct	-3.54	
For>50 To 100, Deduct	-7.71	
For>100, Deduct	-15.42	
05 05 19 00-0194 EA 2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	135.81	
For>10 To 50, Deduct	-4.28	
For>50 To 100, Deduct	-9.81	
For>100, Deduct	-19.62	
05 05 19 00-0195 Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)		
05 05 19 00-0196 EA Grout Concrete Anchor Bolt or Threaded Rod.....	5.46	
For>10 To 50, Deduct	-0.27	
For>50 To 100, Deduct	-0.53	
For>100, Deduct	-1.07	
05 05 19 00-0197 Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0198 Tapcon Masonry Screws (05 05 19 00-0197)		
Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0199 EA 3/16" x 1-1/4" Tapcon Masonry Screw.....	14.68	
For>10 To 50, Deduct	-0.72	
For>50 To 100, Deduct	-1.45	
For>100, Deduct	-2.90	
05 05 19 00-0200 EA 3/16" x 2-1/4" Tapcon Masonry Screw.....	14.75	
For>10 To 50, Deduct	-0.72	
For>50 To 100, Deduct	-1.45	
For>100, Deduct	-2.90	
05 05 19 00-0201 EA 3/16" x 3-1/4" Tapcon Masonry Screw.....	14.89	
For>10 To 50, Deduct	-0.72	
For>50 To 100, Deduct	-1.45	
For>100, Deduct	-2.91	
05 05 19 00-0202 EA 1/4" x 1-1/4" Tapcon Masonry Screw.....	14.76	
For>10 To 50, Deduct	-0.72	
For>50 To 100, Deduct	-1.45	
For>100, Deduct	-2.90	
05 05 19 00-0203 EA 1/4" x 2-1/4" Tapcon Masonry Screw.....	14.84	
For>10 To 50, Deduct	-0.72	
For>50 To 100, Deduct	-1.45	
For>100, Deduct	-2.91	
05 05 19 00-0204 EA 1/4" x 3-1/4" Tapcon Masonry Screw.....	15.01	
For>10 To 50, Deduct	-0.72	
For>50 To 100, Deduct	-1.46	
For>100, Deduct	-2.92	
05 05 19 00-0205 Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0197)		
Note: Includes drilling. Zinc plated.		
05 05 19 00-0206 EA 3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	16.59	
For>10 To 50, Deduct	-0.72	
For>50 To 100, Deduct	-1.50	
For>100, Deduct	-2.99	
05 05 19 00-0207 EA 3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	17.37	
For>10 To 50, Deduct	-0.72	
For>50 To 100, Deduct	-1.52	
For>100, Deduct	-3.03	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0208	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	17.58	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.04	
05 05 19 00-0209	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	17.96	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.53	
			For >100, Deduct	-3.06	
05 05 19 00-0210	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	18.28	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.54	
			For >100, Deduct	-3.08	
05 05 19 00-0211	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	18.96	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.56	
			For >100, Deduct	-3.11	
05 05 19 00-0212	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	19.79	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.58	
			For >100, Deduct	-3.15	
05 05 19 00-0213	EA		1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	20.56	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.60	
			For >100, Deduct	-3.19	
05 05 19 00-0214	EA		1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	22.71	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.65	
			For >100, Deduct	-3.30	
05 05 19 00-0215	EA		5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	22.97	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.66	
			For >100, Deduct	-3.31	
05 05 19 00-0216	EA		5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	24.28	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.69	
			For >100, Deduct	-3.38	
05 05 19 00-0217	EA		5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	25.63	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.45	
05 05 19 00-0218	EA		5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	26.50	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.74	
			For >100, Deduct	-3.49	
05 05 19 00-0219	EA		3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	26.11	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.74	
			For >100, Deduct	-3.47	
05 05 19 00-0220	EA		3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	27.36	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.77	
			For >100, Deduct	-3.53	
05 05 19 00-0221	EA		3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	30.28	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.84	
			For >100, Deduct	-3.68	
05 05 19 00-0222			Pin Bolt Drives (05 05 19 00-0197)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0223	EA		1/4" x 1" Pin Bolt Drive.....	9.03	
			For >10 To 50, Deduct	-0.43	
			For >50 To 100, Deduct	-0.87	
			For >100, Deduct	-1.75	
05 05 19 00-0224	EA		1/4" x 1-1/4" Pin Bolt Drive.....	9.03	
			For >10 To 50, Deduct	-0.43	
			For >50 To 100, Deduct	-0.87	
			For >100, Deduct	-1.75	
05 05 19 00-0225	EA		1/4" x 1-1/2" Pin Bolt Drive.....	9.09	
			For >10 To 50, Deduct	-0.43	
			For >50 To 100, Deduct	-0.88	
			For >100, Deduct	-1.75	
05 05 19 00-0226	EA		1/4" x 2" Pin Bolt Drive.....	9.10	
			For >10 To 50, Deduct	-0.43	
			For >50 To 100, Deduct	-0.88	
			For >100, Deduct	-1.75	
05 05 19 00-0227			Powder Actuated, Shot-In Place Anchors (05 05 19 00-0197)		
05 05 19 00-0228	EA		0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor	2.19	
			For >10 To 50, Deduct	-0.10	
			For >50 To 100, Deduct	-0.20	
			For >100, Deduct	-0.40	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0229	EA	0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor	.....	2.30	
		For >10 To 50, Deduct	.....	-0.10	
		For >50 To 100, Deduct	.....	-0.21	
		For >100, Deduct	.....	-0.42	
05 05 19 00-0230	EA	0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor	.....	2.48	
		For >10 To 50, Deduct	.....	-0.11	
		For >50 To 100, Deduct	.....	-0.22	
		For >100, Deduct	.....	-0.45	
05 05 19 00-0231	EA	0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor	.....	2.71	
		For >10 To 50, Deduct	.....	-0.12	
		For >50 To 100, Deduct	.....	-0.24	
		For >100, Deduct	.....	-0.48	
05 05 19 00-0232	EA	0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor	.....	2.81	
		For >10 To 50, Deduct	.....	-0.12	
		For >50 To 100, Deduct	.....	-0.24	
		For >100, Deduct	.....	-0.49	
05 05 19 00-0233		Powder Actuated, Shot-In Place Anchors With Exposed Thread (05 05 19 00-0197)	.....	2.50	
05 05 19 00-0234	EA	0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor	.....	2.50	
		For >10 To 50, Deduct	.....	-0.10	
		For >50 To 100, Deduct	.....	-0.21	
		For >100, Deduct	.....	-0.43	
05 05 19 00-0235	EA	0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor	.....	3.28	
		For >10 To 50, Deduct	.....	-0.12	
		For >50 To 100, Deduct	.....	-0.27	
		For >100, Deduct	.....	-0.53	
05 05 21 Fastening Methods for Metal		(05 05)			
05 05 21 00-0001		Welding (05 05 21)			
05 05 21 00-0002		Minimum Charge For Welding (05 05 21 00-0001)			
05 05 21 00-0003	EA	Minimum Charge For Welding	.....	550.49	
		Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.			
05 05 21 00-0004		Spot Welding (05 05 21 00-0001)			
		See CSI section 05 05 21 00-0007 for a series of welds.			
05 05 21 00-0005	EA	Up To 15 Spot Weldings, Welds Up To 1" Length Each	.....	13.58	
		For Aluminum Welding, Add	.....	2.17	
		For Stainless Steel Welding, Add	.....	3.56	
05 05 21 00-0006	EA	>15 Spot Weldings, Welds Up To 1" Length Each	.....	10.62	
		For Aluminum Welding, Add	.....	1.73	
		For Stainless Steel Welding, Add	.....	2.82	
05 05 21 00-0007		Field Welding (Seam And Stitch Welding) (05 05 21 00-0001)			
05 05 21 00-0008		Vertical Fillet Welds (05 05 21 00-0007)			
		Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.			
05 05 21 00-0009	LF	1/8" Vertical Fillet Weld	.....	8.98	
		For Aluminum Welding, Add	.....	2.01	
		For Stainless Steel Welding, Add	.....	3.08	
		For Up To 25, Add	.....	2.87	
		For >25 To 50, Add	.....	2.02	
05 05 21 00-0010	LF	3/16" Vertical Fillet Weld	.....	17.13	
		For Aluminum Welding, Add	.....	3.39	
		For Stainless Steel Welding, Add	.....	5.31	
		For Up To 25, Add	.....	5.65	
		For >25 To 50, Add	.....	4.01	
05 05 21 00-0011	LF	1/4" Vertical Fillet Weld	.....	25.73	
		For Aluminum Welding, Add	.....	5.12	
		For Stainless Steel Welding, Add	.....	8.01	
		For Up To 25, Add	.....	8.48	
		For >25 To 50, Add	.....	6.01	
05 05 21 00-0012	LF	5/16" Vertical Fillet Weld	.....	33.96	
		For Aluminum Welding, Add	.....	6.79	
		For Stainless Steel Welding, Add	.....	10.61	
		For Up To 25, Add	.....	11.18	
		For >25 To 50, Add	.....	7.93	
05 05 21 00-0013	LF	3/8" Vertical Fillet Weld	.....	42.86	
		For Aluminum Welding, Add	.....	8.51	
		For Stainless Steel Welding, Add	.....	13.32	
		For Up To 25, Add	.....	14.13	
		For >25 To 50, Add	.....	10.02	
05 05 21 00-0014	LF	7/16" Vertical Fillet Weld	.....	49.40	
		For Aluminum Welding, Add	.....	9.06	
		For Stainless Steel Welding, Add	.....	14.41	
		For Up To 25, Add	.....	16.60	
		For >25 To 50, Add	.....	11.80	



		Metals	05	05
		Common Work Results for Metals	05 05	
		Fastening Methods for Metal	05 05 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0015	LF		1/2" Vertical Fillet Weld.....	58.63	
			For Aluminum Welding, Add	11.70	
			For Stainless Steel Welding, Add	18.29	
			For Up To 25, Add	19.31	
			For >25 To 50, Add	13.69	
05 05 21 00-0016	LF		9/16" Vertical Fillet Weld.....	68.10	
			For Aluminum Welding, Add	12.82	
			For Stainless Steel Welding, Add	20.28	
			For Up To 25, Add	22.75	
			For >25 To 50, Add	16.16	
05 05 21 00-0017	LF		5/8" Vertical Fillet Weld.....	78.99	
			For Aluminum Welding, Add	14.93	
			For Stainless Steel Welding, Add	23.60	
			For Up To 25, Add	26.36	
			For >25 To 50, Add	18.72	
05 05 21 00-0018	LF		3/4" Vertical Fillet Weld.....	107.29	
			For Aluminum Welding, Add	21.39	
			For Stainless Steel Welding, Add	33.44	
			For Up To 25, Add	35.35	
			For >25 To 50, Add	25.06	
05 05 21 00-0019	LF		7/8" Vertical Fillet Weld.....	157.53	
			For Aluminum Welding, Add	29.53	
			For Stainless Steel Welding, Add	46.76	
			For Up To 25, Add	52.68	
			For >25 To 50, Add	37.42	
05 05 21 00-0020	LF		1" Vertical Fillet Weld.....	213.43	
			For Aluminum Welding, Add	41.91	
			For Stainless Steel Welding, Add	65.73	
			For Up To 25, Add	70.58	
			For >25 To 50, Add	50.06	
05 05 21 00-0021			Horizontal Or Flat Fillet Welds (05 05 21 00-0007)		
			Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0022	LF		1/8" Horizontal Or Flat Fillet Weld.....	7.63	
			For Aluminum Welding, Add	1.81	
			For Stainless Steel Welding, Add	2.74	
			For Up To 25, Add	2.39	
			For >25 To 50, Add	1.69	
05 05 21 00-0023	LF		3/16" Horizontal Or Flat Fillet Weld.....	14.62	
			For Aluminum Welding, Add	3.06	
			For Stainless Steel Welding, Add	4.74	
			For Up To 25, Add	4.75	
			For >25 To 50, Add	3.37	
05 05 21 00-0024	LF		1/4" Horizontal Or Flat Fillet Weld.....	21.86	
			For Aluminum Welding, Add	4.58	
			For Stainless Steel Welding, Add	7.09	
			For Up To 25, Add	7.11	
			For >25 To 50, Add	5.03	
05 05 21 00-0025	LF		5/16" Horizontal Or Flat Fillet Weld.....	28.93	
			For Aluminum Welding, Add	6.12	
			For Stainless Steel Welding, Add	9.45	
			For Up To 25, Add	9.39	
			For >25 To 50, Add	6.64	
05 05 21 00-0026	LF		3/8" Horizontal Or Flat Fillet Weld.....	36.48	
			For Aluminum Welding, Add	7.64	
			For Stainless Steel Welding, Add	11.84	
			For Up To 25, Add	11.86	
			For >25 To 50, Add	8.40	
05 05 21 00-0027	LF		7/16" Horizontal Or Flat Fillet Weld.....	41.78	
			For Aluminum Welding, Add	8.00	
			For Stainless Steel Welding, Add	12.61	
			For Up To 25, Add	13.90	
			For >25 To 50, Add	9.87	
05 05 21 00-0028	LF		1/2" Horizontal Or Flat Fillet Weld.....	49.86	
			For Aluminum Welding, Add	10.52	
			For Stainless Steel Welding, Add	16.26	
			For Up To 25, Add	16.19	
			For >25 To 50, Add	11.45	
05 05 21 00-0029	LF		9/16" Horizontal Or Flat Fillet Weld.....	57.80	
			For Aluminum Welding, Add	11.45	
			For Stainless Steel Welding, Add	17.92	
			For Up To 25, Add	19.07	
			For >25 To 50, Add	13.52	
05 05 21 00-0030	LF		5/8" Horizontal Or Flat Fillet Weld.....	67.54	
			For Aluminum Welding, Add	13.73	
			For Stainless Steel Welding, Add	21.39	
			For Up To 25, Add	22.14	
			For >25 To 50, Add	15.69	
05 05 21 00-0031	LF		3/4" Horizontal Or Flat Fillet Weld.....	91.36	
			For Aluminum Welding, Add	19.26	
			For Stainless Steel Welding, Add	29.79	
			For Up To 25, Add	29.66	
			For >25 To 50, Add	20.99	

05 Metals**05 05 Common Work Results for Metals****05 05 21 Fastening Methods for Metal**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0032 LF 7/8" Horizontal Or Flat Fillet Weld.....	132.27	
For Aluminum Welding, Add	25.35	
For Stainless Steel Welding, Add	39.95	
For Up To 25, Add	44.00	
For >25 To 50, Add	31.23	
05 05 21 00-0033 LF 1" Horizontal Or Flat Fillet Weld.....	180.99	
For Aluminum Welding, Add	37.52	
For Stainless Steel Welding, Add	58.21	
For Up To 25, Add	59.03	
For >25 To 50, Add	41.79	

05 05 23 Metal Fastenings (05 05)**05 05 23 00-0001 Drilling In Existing Steel Plates** (05 05 23)

05 05 23 00-0002 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	40.73	
For Aluminum, Deduct	-4.07	
For Stainless Steel, Add	5.09	
For >5 To 10, Deduct	-4.07	
For >10 To 25, Deduct	-10.18	
For >25 To 50, Deduct	-14.26	
For >50, Deduct	-20.37	
05 05 23 00-0003 EA >4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	54.54	
For Aluminum, Deduct	-5.45	
For Stainless Steel, Add	6.82	
For >5 To 10, Deduct	-5.45	
For >10 To 25, Deduct	-13.64	
For >25 To 50, Deduct	-19.09	
For >50, Deduct	-27.27	
05 05 23 00-0004 EA >1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	54.54	
For Aluminum, Deduct	-5.45	
For Stainless Steel, Add	6.82	
For >5 To 10, Deduct	-5.45	
For >10 To 25, Deduct	-13.64	
For >25 To 50, Deduct	-19.09	
For >50, Deduct	-27.27	
05 05 23 00-0005 EA Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	36.36	
For Aluminum, Deduct	-3.64	
For Stainless Steel, Add	4.55	
For >5 To 10, Deduct	-3.64	
For >10 To 25, Deduct	-9.09	
For >25 To 50, Deduct	-12.73	
For >50, Deduct	-18.18	
05 05 23 00-0006 EA >1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	47.99	
For Aluminum, Deduct	-4.80	
For Stainless Steel, Add	6.00	
For >5 To 10, Deduct	-4.80	
For >10 To 25, Deduct	-12.00	
For >25 To 50, Deduct	-16.80	
For >50, Deduct	-24.00	
05 05 23 00-0007 EA >7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	58.18	
For >5 To 10, Deduct	-5.82	
For >10 To 25, Deduct	-14.55	
For >25 To 50, Deduct	-20.36	
For >50, Deduct	-29.09	

05 05 23 00-0008 Cutting Existing Steel With Torch (05 05 23)

05 05 23 00-0009 LF Torch Cutting, Milled Steel Up To 1/4" Thick	7.52	

05 05 23 00-0010 Hex Bolts (05 05 23)

Note: For owner furnished materials or where requested by the owner. Excludes drilling through steel, concrete, brick or block. See CSI section 02 41 19 13-0277 for drilling into concrete, 02 41 19 13-0292 for drilling into brick or block, 02 41 19 13-0307 for drilling into wood or plastic, 05 05 23 00-0001 for drilling through steel.

05 05 23 00-0011 A307B Heavy Hex Bolts (05 05 23 00-0010)

Note: Includes A307B heavy hex nut and two structural washers.

05 05 23 00-0012 Plain Finish A307B Heavy Hex Bolts (05 05 23 00-0011)

05 05 23 00-0013 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	15.55	1.51
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.33	
For >100, Deduct	-2.67	
05 05 23 00-0014 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	17.26	1.51
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.75	
05 05 23 00-0015 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	17.31	1.51
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.75	
05 05 23 00-0016 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	20.67	1.73
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.60	
For >100, Deduct	-3.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0017	EA	3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	.....	20.18	1.51
		For >10 To 50, Deduct	.....	-0.63	
		For >50 To 100, Deduct	.....	-1.45	
		For >100, Deduct	.....	-2.90	
05 05 23 00-0018	EA	3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	.....	24.24	1.73
		For >10 To 50, Deduct	.....	-0.72	
		For >50 To 100, Deduct	.....	-1.68	
		For >100, Deduct	.....	-3.37	
05 05 23 00-0019	EA	3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	.....	30.91	1.80
		For >10 To 50, Deduct	.....	-0.75	
		For >50 To 100, Deduct	.....	-1.90	
		For >100, Deduct	.....	-3.80	
05 05 23 00-0020	EA	3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	.....	33.23	1.90
		For >10 To 50, Deduct	.....	-0.79	
		For >50 To 100, Deduct	.....	-2.02	
		For >100, Deduct	.....	-4.03	
05 05 23 00-0021	EA	7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	.....	24.29	1.64
		For >10 To 50, Deduct	.....	-0.68	
		For >50 To 100, Deduct	.....	-1.63	
		For >100, Deduct	.....	-3.26	
05 05 23 00-0022	EA	7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	.....	29.40	1.80
		For >10 To 50, Deduct	.....	-0.75	
		For >50 To 100, Deduct	.....	-1.86	
		For >100, Deduct	.....	-3.72	
05 05 23 00-0023	EA	1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	.....	34.76	1.90
		For >10 To 50, Deduct	.....	-0.79	
		For >50 To 100, Deduct	.....	-2.05	
		For >100, Deduct	.....	-4.11	
05 05 23 00-0024	EA	1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	.....	50.11	1.99
		For >10 To 50, Deduct	.....	-0.83	
		For >50 To 100, Deduct	.....	-2.50	
		For >100, Deduct	.....	-5.00	
05 05 23 00-0025	EA	1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	.....	58.72	2.25
		For >10 To 50, Deduct	.....	-0.94	
		For >50 To 100, Deduct	.....	-2.87	
		For >100, Deduct	.....	-5.75	
05 05 23 00-0026	EA	1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	.....	66.17	2.40
		For >10 To 50, Deduct	.....	-1.00	
		For >50 To 100, Deduct	.....	-3.16	
		For >100, Deduct	.....	-6.32	
05 05 23 00-0027	Galvanized A307B Heavy Hex Bolts (05 05 23 00-0011)				
05 05 23 00-0028	EA	1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	.....	16.39	1.51
		For >10 To 50, Deduct	.....	-0.63	
		For >50 To 100, Deduct	.....	-1.35	
		For >100, Deduct	.....	-2.71	
05 05 23 00-0029	EA	1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	.....	17.82	1.51
		For >10 To 50, Deduct	.....	-0.63	
		For >50 To 100, Deduct	.....	-1.39	
		For >100, Deduct	.....	-2.78	
05 05 23 00-0030	EA	5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	.....	19.38	1.51
		For >10 To 50, Deduct	.....	-0.63	
		For >50 To 100, Deduct	.....	-1.43	
		For >100, Deduct	.....	-2.86	
05 05 23 00-0031	EA	5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	.....	22.74	1.73
		For >10 To 50, Deduct	.....	-0.72	
		For >50 To 100, Deduct	.....	-1.65	
		For >100, Deduct	.....	-3.29	
05 05 23 00-0032	EA	3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	.....	22.53	1.51
		For >10 To 50, Deduct	.....	-0.63	
		For >50 To 100, Deduct	.....	-1.51	
		For >100, Deduct	.....	-3.02	
05 05 23 00-0033	EA	3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	.....	28.59	1.73
		For >10 To 50, Deduct	.....	-0.72	
		For >50 To 100, Deduct	.....	-1.79	
		For >100, Deduct	.....	-3.59	
05 05 23 00-0034	EA	3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	.....	38.40	1.80
		For >10 To 50, Deduct	.....	-0.75	
		For >50 To 100, Deduct	.....	-2.09	
		For >100, Deduct	.....	-4.17	
05 05 23 00-0035	EA	3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt	.....	45.35	1.90
		For >10 To 50, Deduct	.....	-0.79	
		For >50 To 100, Deduct	.....	-2.32	
		For >100, Deduct	.....	-4.64	
05 05 23 00-0036	EA	7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	.....	30.45	1.64
		For >10 To 50, Deduct	.....	-0.68	
		For >50 To 100, Deduct	.....	-1.79	
		For >100, Deduct	.....	-3.57	
05 05 23 00-0037	EA	7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	.....	36.34	1.80
		For >10 To 50, Deduct	.....	-0.75	
		For >50 To 100, Deduct	.....	-2.03	
		For >100, Deduct	.....	-4.07	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0038	EA	1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	43.71	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.28	
		For >100, Deduct	-4.56	
05 05 23 00-0039	EA	1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	66.34	1.99
		For >10 To 50, Deduct	-0.83	
		For >50 To 100, Deduct	-2.90	
		For >100, Deduct	-5.81	
05 05 23 00-0040	EA	1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	65.98	2.25
		For >10 To 50, Deduct	-0.94	
		For >50 To 100, Deduct	-3.06	
		For >100, Deduct	-6.11	
05 05 23 00-0041	EA	1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	82.99	2.40
		For >10 To 50, Deduct	-1.00	
		For >50 To 100, Deduct	-3.58	
		For >100, Deduct	-7.16	
05 05 23 00-0042		A325 High Strength Structural Bolts (05 05 23 00-0010) Note: Includes A325 heavy hex nut and two structural washers.		
05 05 23 00-0043		Plain Finish A325 High Strength Structural Bolts (05 05 23 00-0042) Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0044	EA	1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.16	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.32	
		For >100, Deduct	-2.65	
05 05 23 00-0045	EA	1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	15.53	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.33	
		For >100, Deduct	-2.67	
05 05 23 00-0046	EA	5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	16.74	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.36	
		For >100, Deduct	-2.73	
05 05 23 00-0047	EA	5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	20.70	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.60	
		For >100, Deduct	-3.19	
05 05 23 00-0048	EA	5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	24.22	1.80
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-1.73	
		For >100, Deduct	-3.46	
05 05 23 00-0049	EA	3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	18.42	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.40	
		For >100, Deduct	-2.81	
05 05 23 00-0050	EA	3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	22.50	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.64	
		For >100, Deduct	-3.28	
05 05 23 00-0051	EA	3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	25.80	1.80
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-1.77	
		For >100, Deduct	-3.54	
05 05 23 00-0052	EA	3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	32.16	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-1.99	
		For >100, Deduct	-3.98	
05 05 23 00-0053	EA	7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	21.53	1.64
		For >10 To 50, Deduct	-0.68	
		For >50 To 100, Deduct	-1.56	
		For >100, Deduct	-3.13	
05 05 23 00-0054	EA	7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	26.46	1.80
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-1.79	
		For >100, Deduct	-3.57	
05 05 23 00-0055	EA	7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	30.42	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-1.95	
		For >100, Deduct	-3.89	
05 05 23 00-0056	EA	7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	33.04	1.99
		For >10 To 50, Deduct	-0.83	
		For >50 To 100, Deduct	-2.07	
		For >100, Deduct	-4.14	
05 05 23 00-0057	EA	1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	23.92	1.70
		For >10 To 50, Deduct	-0.71	
		For >50 To 100, Deduct	-1.66	
		For >100, Deduct	-3.32	
05 05 23 00-0058	EA	1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	28.99	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-1.91	
		For >100, Deduct	-3.82	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0059	EA	1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	33.85	1.99
		For >10 To 50, Deduct	-0.83	
		For >50 To 100, Deduct	-2.09	
		For >100, Deduct	-4.18	
05 05 23 00-0060	EA	1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	43.90	2.12
		For >10 To 50, Deduct	-0.88	
		For >50 To 100, Deduct	-2.42	
		For >100, Deduct	-4.85	
05 05 23 00-0061	EA	1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	41.79	2.12
		For >10 To 50, Deduct	-0.88	
		For >50 To 100, Deduct	-2.37	
		For >100, Deduct	-4.74	
05 05 23 00-0062	EA	1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	47.56	2.25
		For >10 To 50, Deduct	-0.94	
		For >50 To 100, Deduct	-2.59	
		For >100, Deduct	-5.19	
05 05 23 00-0063	EA	1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	56.13	2.40
		For >10 To 50, Deduct	-1.00	
		For >50 To 100, Deduct	-2.91	
		For >100, Deduct	-5.82	
05 05 23 00-0064	EA	1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	66.25	2.58
		For >10 To 50, Deduct	-1.07	
		For >50 To 100, Deduct	-3.26	
		For >100, Deduct	-6.53	
05 05 23 00-0065		Galvanized A325 High Strength Structural Bolts (05 05 23 00-0042)		
		Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0066	EA	1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt	15.91	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.34	
		For >100, Deduct	-2.68	
05 05 23 00-0067	EA	1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	16.18	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.35	
		For >100, Deduct	-2.70	
05 05 23 00-0068	EA	5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	18.33	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.40	
		For >100, Deduct	-2.81	
05 05 23 00-0069	EA	5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	21.84	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.62	
		For >100, Deduct	-3.25	
05 05 23 00-0070	EA	5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	23.14	1.80
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-1.71	
		For >100, Deduct	-3.41	
05 05 23 00-0071	EA	3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	19.15	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.42	
		For >100, Deduct	-2.85	
05 05 23 00-0072	EA	3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	23.42	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.66	
		For >100, Deduct	-3.33	
05 05 23 00-0073	EA	3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	27.24	1.80
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-1.81	
		For >100, Deduct	-3.62	
05 05 23 00-0074	EA	3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	35.56	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.07	
		For >100, Deduct	-4.15	
05 05 23 00-0075	EA	7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	25.93	1.64
		For >10 To 50, Deduct	-0.68	
		For >50 To 100, Deduct	-1.67	
		For >100, Deduct	-3.35	
05 05 23 00-0076	EA	7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	29.06	1.80
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-1.85	
		For >100, Deduct	-3.70	
05 05 23 00-0077	EA	7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	33.57	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.02	
		For >100, Deduct	-4.05	
05 05 23 00-0078	EA	7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	42.49	1.99
		For >10 To 50, Deduct	-0.83	
		For >50 To 100, Deduct	-2.31	
		For >100, Deduct	-4.61	
05 05 23 00-0079	EA	1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	27.34	1.70
		For >10 To 50, Deduct	-0.71	
		For >50 To 100, Deduct	-1.75	
		For >100, Deduct	-3.50	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0080	EA	1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	36.83	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.11	
		For >100, Deduct	-4.21	
05 05 23 00-0081	EA	1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	40.41	1.99
		For >10 To 50, Deduct	-0.83	
		For >50 To 100, Deduct	-2.26	
		For >100, Deduct	-4.51	
05 05 23 00-0082	EA	1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	51.99	2.12
		For >10 To 50, Deduct	-0.88	
		For >50 To 100, Deduct	-2.63	
		For >100, Deduct	-5.25	
05 05 23 00-0083	EA	1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	51.66	2.12
		For >10 To 50, Deduct	-0.88	
		For >50 To 100, Deduct	-2.62	
		For >100, Deduct	-5.23	
05 05 23 00-0084	EA	1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	55.10	2.25
		For >10 To 50, Deduct	-0.94	
		For >50 To 100, Deduct	-2.78	
		For >100, Deduct	-5.57	
05 05 23 00-0085	EA	1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	64.77	2.40
		For >10 To 50, Deduct	-1.00	
		For >50 To 100, Deduct	-3.13	
		For >100, Deduct	-6.25	
05 05 23 00-0086	EA	1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	75.27	2.58
		For >10 To 50, Deduct	-1.07	
		For >50 To 100, Deduct	-3.49	
		For >100, Deduct	-6.98	
05 05 23 00-0087		A490 High Strength Structural Bolts (05 05 23 00-0010)		
		Note: Includes A490 heavy hex nut and two structural washers.		
05 05 23 00-0088		Plain Finish A490 High Strength Structural Bolts (05 05 23 00-0087)		
05 05 23 00-0089	EA	5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	17.34	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.38	
		For >100, Deduct	-2.76	
05 05 23 00-0090	EA	5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	24.80	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.70	
		For >100, Deduct	-3.40	
05 05 23 00-0091	EA	5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	26.58	1.80
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-1.79	
		For >100, Deduct	-3.58	
05 05 23 00-0092	EA	3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	19.66	1.51
		For >10 To 50, Deduct	-0.63	
		For >50 To 100, Deduct	-1.44	
		For >100, Deduct	-2.87	
05 05 23 00-0093	EA	3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	23.91	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.68	
		For >100, Deduct	-3.35	
05 05 23 00-0094	EA	3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	28.08	1.80
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-1.83	
		For >100, Deduct	-3.66	
05 05 23 00-0095	EA	3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	36.59	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.10	
		For >100, Deduct	-4.20	
05 05 23 00-0096	EA	7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	22.96	1.64
		For >10 To 50, Deduct	-0.68	
		For >50 To 100, Deduct	-1.60	
		For >100, Deduct	-3.20	
05 05 23 00-0097	EA	7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	26.92	1.80
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-1.80	
		For >100, Deduct	-3.59	
05 05 23 00-0098	EA	7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	39.67	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.18	
		For >100, Deduct	-4.35	
05 05 23 00-0099	EA	1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	27.27	1.70
		For >10 To 50, Deduct	-0.71	
		For >50 To 100, Deduct	-1.75	
		For >100, Deduct	-3.49	
05 05 23 00-0100	EA	1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	32.75	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.00	
		For >100, Deduct	-4.01	
05 05 23 00-0101	EA	1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	37.88	1.99
		For >10 To 50, Deduct	-0.83	
		For >50 To 100, Deduct	-2.19	
		For >100, Deduct	-4.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0102	EA		1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	47.76	2.12
			For >10 To 50, Deduct	-0.88	
			For >50 To 100, Deduct	-2.52	
			For >100, Deduct	-5.04	
05 05 23 00-0103	EA		1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	61.81	2.25
			For >10 To 50, Deduct	-0.94	
			For >50 To 100, Deduct	-2.95	
			For >100, Deduct	-5.90	
05 05 23 00-0104	EA		1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	65.01	2.40
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-3.13	
			For >100, Deduct	-6.26	
05 05 23 00-0105	EA		1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	67.77	2.58
			For >10 To 50, Deduct	-1.07	
			For >50 To 100, Deduct	-3.30	
			For >100, Deduct	-6.60	
05 05 23 00-0106			Hex Head Bolts (05 05 23 00-0010)		
05 05 23 00-0107			Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0108			1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)		
05 05 23 00-0109	EA		1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0110	EA		1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.18	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0111	EA		1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.28	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0112	EA		1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.33	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0113	EA		1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.65	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0114	EA		1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.69	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0115	EA		1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0116	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.10	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0117	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.15	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0118	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.37	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0119	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.80	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0120	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.97	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0121	EA		1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.20	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0122	EA		1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.97	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-0123	EA		1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.33	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0124	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.42	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.02	
05 05 23 00-0125 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)				
05 05 23 00-0126	EA	5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.24	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	
05 05 23 00-0127	EA	5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	
05 05 23 00-0128	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.35	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	
05 05 23 00-0129	EA	5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.41	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	
05 05 23 00-0130	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.75	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.32	
		For >500, Deduct	-2.78	
05 05 23 00-0131	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.90	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.32	
		For >500, Deduct	-2.78	
05 05 23 00-0132	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.96	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.32	
		For >500, Deduct	-2.78	
05 05 23 00-0133	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.36	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.38	
		For >500, Deduct	-2.86	
05 05 23 00-0134	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.58	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.38	
		For >500, Deduct	-2.86	
05 05 23 00-0135	EA	5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.66	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.38	
		For >500, Deduct	-2.86	
05 05 23 00-0136	EA	5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.99	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-0137	EA	5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.07	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-0138	EA	5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.90	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-0139	EA	5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.56	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.02	
05 05 23 00-0140	EA	5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.93	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.02	
05 05 23 00-0141	EA	5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.26	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.02	
05 05 23 00-0142 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)				
05 05 23 00-0143	EA	3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.33	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	
05 05 23 00-0144	EA	3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.37	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0145	EA	3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48		
		For >100 To 250, Deduct	-1.80		
		For >250 To 500, Deduct	-2.26		
		For >500, Deduct	-2.71		
05 05 23 00-0146	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.59		
		For >100 To 250, Deduct	-1.80		
		For >250 To 500, Deduct	-2.26		
		For >500, Deduct	-2.71		
05 05 23 00-0147	EA	3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.94		
		For >100 To 250, Deduct	-1.86		
		For >250 To 500, Deduct	-2.32		
		For >500, Deduct	-2.78		
05 05 23 00-0148	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.13		
		For >100 To 250, Deduct	-1.86		
		For >250 To 500, Deduct	-2.32		
		For >500, Deduct	-2.78		
05 05 23 00-0149	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.32		
		For >100 To 250, Deduct	-1.86		
		For >250 To 500, Deduct	-2.32		
		For >500, Deduct	-2.78		
05 05 23 00-0150	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.76		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.38		
		For >500, Deduct	-2.86		
05 05 23 00-0151	EA	3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.01		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.38		
		For >500, Deduct	-2.86		
05 05 23 00-0152	EA	3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.15		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.38		
		For >500, Deduct	-2.86		
05 05 23 00-0153	EA	3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.66		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.94		
05 05 23 00-0154	EA	3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.80		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.94		
05 05 23 00-0155	EA	3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.90		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.94		
05 05 23 00-0156	EA	3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.22		
		For >100 To 250, Deduct	-2.01		
		For >250 To 500, Deduct	-2.51		
		For >500, Deduct	-3.02		
05 05 23 00-0157	EA	3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.38		
		For >100 To 250, Deduct	-2.01		
		For >250 To 500, Deduct	-2.51		
		For >500, Deduct	-3.02		
05 05 23 00-0158	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.60		
		For >100 To 250, Deduct	-2.01		
		For >250 To 500, Deduct	-2.51		
		For >500, Deduct	-3.02		
05 05 23 00-0159		7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05			
		23 00-0107)			
05 05 23 00-0160	EA	7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.09		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.09		
05 05 23 00-0161	EA	7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.24		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.09		
05 05 23 00-0162	EA	7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.26		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.09		
05 05 23 00-0163	EA	7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.73		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.64		
		For >500, Deduct	-3.17		
05 05 23 00-0164	EA	7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.96		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.64		
		For >500, Deduct	-3.17		
05 05 23 00-0165	EA	7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.15		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.64		
		For >500, Deduct	-3.17		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0166 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.91	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0167 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.05	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0168 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.33	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0169 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.05	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0170 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.19	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0171 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.54	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0172 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.95	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0173 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.27	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0174 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.90	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0175 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts 05 05 23 00-0175		
EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.96	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0177 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.15	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0178 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.33	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0179 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.79	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0180 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.98	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0181 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.18	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0182 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.69	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0183 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.91	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0184 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.30	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0185 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.61	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0186 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.66	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0187	EA	1/2"	Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.99	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0188	EA	1/2"	Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.55	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0189	EA	1/2"	Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.75	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0190	EA	1/2"	Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.32	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0191	EA	1/2"	Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.86	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0192	EA	1/2"	Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.06	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0193	EA	1/2"	Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.86	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0194	EA	1/2"	Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.08	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0195			9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0197)		
05 05 23 00-0196	EA	9/16"	Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.15	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-0197	EA	9/16"	Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.41	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-0198	EA	9/16"	Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.47	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-0199	EA	9/16"	Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.56	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-0200	EA	9/16"	Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.89	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-0201	EA	9/16"	Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.00	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-0202	EA	9/16"	Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.30	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0203	EA	9/16"	Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.38	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0204	EA	9/16"	Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.66	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0205	EA	9/16"	Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.99	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0206	EA	9/16"	Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.07	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0207	EA	9/16"	Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.32	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0208 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.84	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.40	
05 05 23 00-0209 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.14	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.40	
05 05 23 00-0210 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.44	
For>100 To 250, Deduct	-2.27	
For>250 To 500, Deduct	-2.84	
For>500, Deduct	-3.40	
05 05 23 00-0211 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.97	
For>100 To 250, Deduct	-2.32	
For>250 To 500, Deduct	-2.90	
For>500, Deduct	-3.48	
05 05 23 00-0212 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.31	
For>100 To 250, Deduct	-2.32	
For>250 To 500, Deduct	-2.90	
For>500, Deduct	-3.48	
05 05 23 00-0213 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.55	
For>100 To 250, Deduct	-2.32	
For>250 To 500, Deduct	-2.90	
For>500, Deduct	-3.48	
05 05 23 00-0214 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.91	
For>100 To 250, Deduct	-2.32	
For>250 To 500, Deduct	-2.90	
For>500, Deduct	-3.48	
05 05 23 00-0215 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
23 00-0107)		
05 05 23 00-0216 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.00	
For>100 To 250, Deduct	-2.32	
For>250 To 500, Deduct	-2.90	
For>500, Deduct	-3.48	
05 05 23 00-0217 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.17	
For>100 To 250, Deduct	-2.32	
For>250 To 500, Deduct	-2.90	
For>500, Deduct	-3.48	
05 05 23 00-0218 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.39	
For>100 To 250, Deduct	-2.32	
For>250 To 500, Deduct	-2.90	
For>500, Deduct	-3.48	
05 05 23 00-0219 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.94	
For>100 To 250, Deduct	-2.37	
For>250 To 500, Deduct	-2.96	
For>500, Deduct	-3.56	
05 05 23 00-0220 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.27	
For>100 To 250, Deduct	-2.37	
For>250 To 500, Deduct	-2.96	
For>500, Deduct	-3.56	
05 05 23 00-0221 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.68	
For>100 To 250, Deduct	-2.37	
For>250 To 500, Deduct	-2.96	
For>500, Deduct	-3.56	
05 05 23 00-0222 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.46	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.63	
05 05 23 00-0223 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.09	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.63	
05 05 23 00-0224 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.57	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.63	
05 05 23 00-0225 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.03	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.71	
05 05 23 00-0226 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.09	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.71	
05 05 23 00-0227 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.92	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.71	
05 05 23 00-0228 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.66	
For>100 To 250, Deduct	-2.53	
For>250 To 500, Deduct	-3.16	
For>500, Deduct	-3.79	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0229	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.32	
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	
05 05 23 00-0230	EA		5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.09	
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	
05 05 23 00-0231	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.19	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0232	EA		5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.94	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0233	EA		5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.71	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0234	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.31	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0235			3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)		
05 05 23 00-0236	EA		3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.56	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0237	EA		3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.91	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0238	EA		3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.22	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0239	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.87	
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-2.96	
			For >500, Deduct	-3.56	
05 05 23 00-0240	EA		3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.35	
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-2.96	
			For >500, Deduct	-3.56	
05 05 23 00-0241	EA		3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.78	
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-2.96	
			For >500, Deduct	-3.56	
05 05 23 00-0242	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.51	
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.03	
			For >500, Deduct	-3.63	
05 05 23 00-0243	EA		3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.11	
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.03	
			For >500, Deduct	-3.63	
05 05 23 00-0244	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.58	
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.03	
			For >500, Deduct	-3.63	
05 05 23 00-0245	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.80	
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.09	
			For >500, Deduct	-3.71	
05 05 23 00-0246	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.20	
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.09	
			For >500, Deduct	-3.71	
05 05 23 00-0247	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.93	
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.09	
			For >500, Deduct	-3.71	
05 05 23 00-0248	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.25	
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	
05 05 23 00-0249	EA		3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.98	
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0250	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	22.78	
		For >100 To 250, Deduct	.....	-2.53	
		For >250 To 500, Deduct	.....	-3.16	
		For >500, Deduct	.....	-3.79	
05 05 23 00-0251	EA	3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	24.09	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-0252	EA	3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	24.90	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-0253	EA	3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	25.96	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-0254	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	27.00	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-0255 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts					
		23 00-0107			
05 05 23 00-0256	EA	7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	16.66	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-0257	EA	7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	16.94	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-0258	EA	7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	17.09	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-0259	EA	7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	17.73	
		For >100 To 250, Deduct	.....	-2.63	
		For >250 To 500, Deduct	.....	-3.29	
		For >500, Deduct	.....	-3.94	
05 05 23 00-0260	EA	7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	18.51	
		For >100 To 250, Deduct	.....	-2.63	
		For >250 To 500, Deduct	.....	-3.29	
		For >500, Deduct	.....	-3.94	
05 05 23 00-0261	EA	7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	19.43	
		For >100 To 250, Deduct	.....	-2.63	
		For >250 To 500, Deduct	.....	-3.29	
		For >500, Deduct	.....	-3.94	
05 05 23 00-0262	EA	7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	20.46	
		For >100 To 250, Deduct	.....	-2.68	
		For >250 To 500, Deduct	.....	-3.35	
		For >500, Deduct	.....	-4.02	
05 05 23 00-0263	EA	7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	21.79	
		For >100 To 250, Deduct	.....	-2.68	
		For >250 To 500, Deduct	.....	-3.35	
		For >500, Deduct	.....	-4.02	
05 05 23 00-0264	EA	7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	22.53	
		For >100 To 250, Deduct	.....	-2.68	
		For >250 To 500, Deduct	.....	-3.35	
		For >500, Deduct	.....	-4.02	
05 05 23 00-0265	EA	7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	23.36	
		For >100 To 250, Deduct	.....	-2.73	
		For >250 To 500, Deduct	.....	-3.41	
		For >500, Deduct	.....	-4.10	
05 05 23 00-0266	EA	7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	23.80	
		For >100 To 250, Deduct	.....	-2.73	
		For >250 To 500, Deduct	.....	-3.41	
		For >500, Deduct	.....	-4.10	
05 05 23 00-0267	EA	7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	24.85	
		For >100 To 250, Deduct	.....	-2.73	
		For >250 To 500, Deduct	.....	-3.41	
		For >500, Deduct	.....	-4.10	
05 05 23 00-0268	EA	7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	26.18	
		For >100 To 250, Deduct	.....	-2.78	
		For >250 To 500, Deduct	.....	-3.48	
		For >500, Deduct	.....	-4.18	
05 05 23 00-0269	EA	7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	27.25	
		For >100 To 250, Deduct	.....	-2.78	
		For >250 To 500, Deduct	.....	-3.48	
		For >500, Deduct	.....	-4.18	
05 05 23 00-0270	EA	7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	.....	28.30	
		For >100 To 250, Deduct	.....	-2.78	
		For >250 To 500, Deduct	.....	-3.48	
		For >500, Deduct	.....	-4.18	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0271	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.54	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0272	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.65	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0273	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.68	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0274	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.78	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0275			1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)		
05 05 23 00-0276	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.95	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0277	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.88	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0278	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.34	
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0279	EA		1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.87	
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0280	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.25	
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0281	EA		1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.94	
			For >100 To 250, Deduct	-2.68	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.02	
05 05 23 00-0282	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.28	
			For >100 To 250, Deduct	-2.68	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.02	
05 05 23 00-0283	EA		1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.66	
			For >100 To 250, Deduct	-2.68	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.02	
05 05 23 00-0284	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.60	
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-3.41	
			For >500, Deduct	-4.10	
05 05 23 00-0285	EA		1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.26	
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-3.41	
			For >500, Deduct	-4.10	
05 05 23 00-0286	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.42	
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-3.41	
			For >500, Deduct	-4.10	
05 05 23 00-0287	EA		1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.86	
			For >100 To 250, Deduct	-2.78	
			For >250 To 500, Deduct	-3.48	
			For >500, Deduct	-4.18	
05 05 23 00-0288	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.00	
			For >100 To 250, Deduct	-2.78	
			For >250 To 500, Deduct	-3.48	
			For >500, Deduct	-4.18	
05 05 23 00-0289	EA		1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	35.20	
			For >100 To 250, Deduct	-2.78	
			For >250 To 500, Deduct	-3.48	
			For >500, Deduct	-4.18	
05 05 23 00-0290	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.41	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0291	EA		1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	37.76	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0292 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	38.95	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0293 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	40.16	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0294 Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0295 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0296 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.22	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0297 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.28	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0298 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.33	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0299 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.43	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0300 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.80	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0301 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.98	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0302 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.17	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0303 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.58	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0304 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.82	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0305 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.99	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0306 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.42	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0307 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.58	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0308 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.74	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0309 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.20	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0310 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.42	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0311 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.64	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0312 5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0313 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.34	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0314 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.38	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0315 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.46	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0316 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.59	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0317 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.96	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0318 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.13	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0319 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.44	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0320 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.84	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0321 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.08	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0322 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.31	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0323 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.01	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0324 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.08	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0325 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.38	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0326 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.04	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0327 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.44	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0328 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.84	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0329 3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294).....	9.41	
05 05 23 00-0330 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.41	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0331 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.44	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0332 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.58	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0333 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.72	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0334 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.14	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0335 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.31	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0336 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.58	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0337 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.12	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0338 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.75	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0339 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.03	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0340 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.67	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0341 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.93	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0342 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.40	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0343 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.01	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0344 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.64	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0345 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.14	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0346 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0347 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.98	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0348 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.11	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0349 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.43	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0350 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.93	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0351 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.16	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0352 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.38	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0353 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.93	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0354 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.17	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0355 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.72	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0356	EA		7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.15	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0357	EA		7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.40	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0358	EA		7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.67	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0359	EA		7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.29	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0360	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.65	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0361	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.01	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0362			1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0363	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.15	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-0364	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.32	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-0365	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.50	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-0366	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.05	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-0367	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.34	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-0368	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.63	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-0369	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.16	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0370	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.14	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0371	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.20	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0372	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.12	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0373	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.50	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0374	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.47	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0375	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.61	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0376	EA		1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.16	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0377 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.36	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0378 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.63	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0379 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.59	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0380 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.94	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0381 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.46	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0382 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0383 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.68	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0384 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.99	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0385 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.27	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0386 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.84	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0387 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.23	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0388 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.67	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0389 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.43	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0390 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.13	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0391 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.57	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0392 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.32	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0393 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.79	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0394 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.36	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0395 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.55	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0396 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.20	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0397 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.28	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	



		Metals	05
		Common Work Results for Metals	05 05
		Metal Fastenings	05 05 23

05

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 05 23 00-0398	EA	9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		24.56	
		For >100 To 250, Deduct		-2.32	
		For >250 To 500, Deduct		-2.90	
		For >500, Deduct		-3.48	
05 05 23 00-0399	EA	9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		24.96	
		For >100 To 250, Deduct		-2.32	
		For >250 To 500, Deduct		-2.90	
		For >500, Deduct		-3.48	
05 05 23 00-0400	EA	9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		25.35	
		For >100 To 250, Deduct		-2.32	
		For >250 To 500, Deduct		-2.90	
		For >500, Deduct		-3.48	
05 05 23 00-0401	EA	9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		26.32	
		For >100 To 250, Deduct		-2.32	
		For >250 To 500, Deduct		-2.90	
		For >500, Deduct		-3.48	
05 05 23 00-0402		5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)			
05 05 23 00-0403	EA	5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		13.30	
		For >100 To 250, Deduct		-2.32	
		For >250 To 500, Deduct		-2.90	
		For >500, Deduct		-3.48	
05 05 23 00-0404	EA	5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		13.41	
		For >100 To 250, Deduct		-2.32	
		For >250 To 500, Deduct		-2.90	
		For >500, Deduct		-3.48	
05 05 23 00-0405	EA	5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		13.50	
		For >100 To 250, Deduct		-2.32	
		For >250 To 500, Deduct		-2.90	
		For >500, Deduct		-3.48	
05 05 23 00-0406	EA	5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		14.05	
		For >100 To 250, Deduct		-2.37	
		For >250 To 500, Deduct		-2.96	
		For >500, Deduct		-3.56	
05 05 23 00-0407	EA	5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		14.57	
		For >100 To 250, Deduct		-2.37	
		For >250 To 500, Deduct		-2.96	
		For >500, Deduct		-3.56	
05 05 23 00-0408	EA	5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		15.04	
		For >100 To 250, Deduct		-2.37	
		For >250 To 500, Deduct		-2.96	
		For >500, Deduct		-3.56	
05 05 23 00-0409	EA	5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		15.79	
		For >100 To 250, Deduct		-2.42	
		For >250 To 500, Deduct		-3.03	
		For >500, Deduct		-3.63	
05 05 23 00-0410	EA	5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		16.70	
		For >100 To 250, Deduct		-2.42	
		For >250 To 500, Deduct		-3.03	
		For >500, Deduct		-3.63	
05 05 23 00-0411	EA	5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		17.19	
		For >100 To 250, Deduct		-2.42	
		For >250 To 500, Deduct		-3.03	
		For >500, Deduct		-3.63	
05 05 23 00-0412	EA	5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		17.69	
		For >100 To 250, Deduct		-2.47	
		For >250 To 500, Deduct		-3.09	
		For >500, Deduct		-3.71	
05 05 23 00-0413	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		18.47	
		For >100 To 250, Deduct		-2.47	
		For >250 To 500, Deduct		-3.09	
		For >500, Deduct		-3.71	
05 05 23 00-0414	EA	5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		19.71	
		For >100 To 250, Deduct		-2.47	
		For >250 To 500, Deduct		-3.09	
		For >500, Deduct		-3.71	
05 05 23 00-0415	EA	5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		21.12	
		For >100 To 250, Deduct		-2.53	
		For >250 To 500, Deduct		-3.16	
		For >500, Deduct		-3.79	
05 05 23 00-0416	EA	5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		22.14	
		For >100 To 250, Deduct		-2.53	
		For >250 To 500, Deduct		-3.16	
		For >500, Deduct		-3.79	
05 05 23 00-0417	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		22.29	
		For >100 To 250, Deduct		-2.53	
		For >250 To 500, Deduct		-3.16	
		For >500, Deduct		-3.79	
05 05 23 00-0418	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....		24.41	
		For >100 To 250, Deduct		-2.58	
		For >250 To 500, Deduct		-3.22	
		For >500, Deduct		-3.87	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0419 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.79	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0420 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.82	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0421 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	28.53	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0422 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0423 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.46	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0424 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.66	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0425 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.77	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0426 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.46	
For >100 To 250, Deduct	-2.37	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-3.56	
05 05 23 00-0427 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.98	
For >100 To 250, Deduct	-2.37	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-3.56	
05 05 23 00-0428 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.77	
For >100 To 250, Deduct	-2.37	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-3.56	
05 05 23 00-0429 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.56	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	
05 05 23 00-0430 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.07	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	
05 05 23 00-0431 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.13	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	
05 05 23 00-0432 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.87	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.71	
05 05 23 00-0433 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.75	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.71	
05 05 23 00-0434 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.82	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.71	
05 05 23 00-0435 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.61	
For >100 To 250, Deduct	-2.53	
For >250 To 500, Deduct	-3.16	
For >500, Deduct	-3.79	
05 05 23 00-0436 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.73	
For >100 To 250, Deduct	-2.53	
For >250 To 500, Deduct	-3.16	
For >500, Deduct	-3.79	
05 05 23 00-0437 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.36	
For >100 To 250, Deduct	-2.53	
For >250 To 500, Deduct	-3.16	
For >500, Deduct	-3.79	
05 05 23 00-0438 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.28	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0439 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.85	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	



		Metals	05
		Common Work Results for Metals	05 05
		Metal Fastenings	05 05 23

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0440	EA	3/4"	Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	29.69 -2.58 -3.22 -3.87	
05 05 23 00-0441	EA	3/4"	Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	30.14 -2.58 -3.22 -3.87	
05 05 23 00-0442 7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)					
05 05 23 00-0443	EA	7/8"	Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.21 -2.58 -3.22 -3.87	
05 05 23 00-0444	EA	7/8"	Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.46 -2.58 -3.22 -3.87	
05 05 23 00-0445	EA	7/8"	Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.81 -2.58 -3.22 -3.87	
05 05 23 00-0446	EA	7/8"	Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.40 -2.63 -3.29 -3.94	
05 05 23 00-0447	EA	7/8"	Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	19.44 -2.63 -3.29 -3.94	
05 05 23 00-0448	EA	7/8"	Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	20.13 -2.63 -3.29 -3.94	
05 05 23 00-0449	EA	7/8"	Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	20.91 -2.68 -3.35 -4.02	
05 05 23 00-0450	EA	7/8"	Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	22.14 -2.68 -3.35 -4.02	
05 05 23 00-0451	EA	7/8"	Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	23.06 -2.68 -3.35 -4.02	
05 05 23 00-0452	EA	7/8"	Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	23.75 -2.73 -3.41 -4.10	
05 05 23 00-0453	EA	7/8"	Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	24.52 -2.73 -3.41 -4.10	
05 05 23 00-0454	EA	7/8"	Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	27.82 -2.73 -3.41 -4.10	
05 05 23 00-0455	EA	7/8"	Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	29.27 -2.78 -3.48 -4.18	
05 05 23 00-0456	EA	7/8"	Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	30.72 -2.78 -3.48 -4.18	
05 05 23 00-0457	EA	7/8"	Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	30.81 -2.78 -3.48 -4.18	
05 05 23 00-0458	EA	7/8"	Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	33.15 -2.83 -3.54 -4.25	
05 05 23 00-0459	EA	7/8"	Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	34.57 -2.83 -3.54 -4.25	
05 05 23 00-0460	EA	7/8"	Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	35.78 -2.83 -3.54 -4.25	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0461	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	36.99	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0462			1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0463	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.52	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0464	EA		1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.60	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0465	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.62	
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0466	EA		1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.63	
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0467	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.36	
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0468	EA		1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.57	
			For >100 To 250, Deduct	-2.68	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.02	
05 05 23 00-0469	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.75	
			For >100 To 250, Deduct	-2.68	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.02	
05 05 23 00-0470	EA		1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.46	
			For >100 To 250, Deduct	-2.68	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.02	
05 05 23 00-0471	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.93	
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-3.41	
			For >500, Deduct	-4.10	
05 05 23 00-0472	EA		1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	28.30	
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-3.41	
			For >500, Deduct	-4.10	
05 05 23 00-0473	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	30.68	
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-3.41	
			For >500, Deduct	-4.10	
05 05 23 00-0474	EA		1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	32.49	
			For >100 To 250, Deduct	-2.78	
			For >250 To 500, Deduct	-3.48	
			For >500, Deduct	-4.18	
05 05 23 00-0475	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	35.04	
			For >100 To 250, Deduct	-2.78	
			For >250 To 500, Deduct	-3.48	
			For >500, Deduct	-4.18	
05 05 23 00-0476	EA		1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	35.76	
			For >100 To 250, Deduct	-2.78	
			For >250 To 500, Deduct	-3.48	
			For >500, Deduct	-4.18	
05 05 23 00-0477	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	44.17	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0478	EA		1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	44.81	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0479	EA		1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	46.56	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0480	EA		1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	47.75	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0481			Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0482			1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0483 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.25	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0484 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.37	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0485 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.43	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0486 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.56	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0487 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.90	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0488 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.05	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0489 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.19	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0490 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.44	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0491 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.84	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0492 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.21	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0493 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.66	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0494 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.86	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0495 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.12	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0496 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.55	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0497 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.04	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0498 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.26	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0499 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		
05 05 23 00-0500 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.35	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0501 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.43	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0502 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.66	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0503 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.71	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0504 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.10	
For>100 To 250, Deduct	-1.86	
For>250 To 500, Deduct	-2.32	
For>500, Deduct	-2.78	
05 05 23 00-0505 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.45	
For>100 To 250, Deduct	-1.86	
For>250 To 500, Deduct	-2.32	
For>500, Deduct	-2.78	
05 05 23 00-0506 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.55	
For>100 To 250, Deduct	-1.86	
For>250 To 500, Deduct	-2.32	
For>500, Deduct	-2.78	
05 05 23 00-0507 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.01	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.38	
For>500, Deduct	-2.86	
05 05 23 00-0508 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.23	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.38	
For>500, Deduct	-2.86	
05 05 23 00-0509 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.73	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.38	
For>500, Deduct	-2.86	
05 05 23 00-0510 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.29	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.94	
05 05 23 00-0511 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.48	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.94	
05 05 23 00-0512 EA 5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.78	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.94	
05 05 23 00-0513 EA 5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.24	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.51	
For>500, Deduct	-3.02	
05 05 23 00-0514 EA 5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.46	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.51	
For>500, Deduct	-3.02	
05 05 23 00-0515 EA 5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.88	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.51	
For>500, Deduct	-3.02	
05 05 23 00-0516 3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)	9.60	
05 05 23 00-0517 EA 3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.60	
For>100 To 250, Deduct	-1.80	
For>250 To 500, Deduct	-2.26	
For>500, Deduct	-2.71	
05 05 23 00-0518 EA 3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.63	
For>100 To 250, Deduct	-1.80	
For>250 To 500, Deduct	-2.26	
For>500, Deduct	-2.71	
05 05 23 00-0519 EA 3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.65	
For>100 To 250, Deduct	-1.80	
For>250 To 500, Deduct	-2.26	
For>500, Deduct	-2.71	
05 05 23 00-0520 EA 3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.92	
For>100 To 250, Deduct	-1.80	
For>250 To 500, Deduct	-2.26	
For>500, Deduct	-2.71	
05 05 23 00-0521 EA 3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.34	
For>100 To 250, Deduct	-1.86	
For>250 To 500, Deduct	-2.32	
For>500, Deduct	-2.78	
05 05 23 00-0522 EA 3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.62	
For>100 To 250, Deduct	-1.86	
For>250 To 500, Deduct	-2.32	
For>500, Deduct	-2.78	
05 05 23 00-0523 EA 3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.87	
For>100 To 250, Deduct	-1.86	
For>250 To 500, Deduct	-2.32	
For>500, Deduct	-2.78	
05 05 23 00-0524 EA 3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.90	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.38	
For>500, Deduct	-2.86	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0525	EA		3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.22	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0526	EA		3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.28	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0527	EA		3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.67	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0528	EA		3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.01	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0529	EA		3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.55	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0530	EA		3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.17	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-0531	EA		3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.86	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-0532	EA		3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.48	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-0533 7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)					
05 05 23 00-0534	EA		7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.16	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-0535	EA		7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.20	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-0536	EA		7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.64	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-0537	EA		7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.93	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-0538	EA		7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.41	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-0539	EA		7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.68	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-0540	EA		7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.99	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0541	EA		7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.07	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0542	EA		7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.92	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0543	EA		7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.75	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0544	EA		7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.05	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0545	EA		7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.49	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0546 EA 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.41	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0547 EA 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.84	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0548 EA 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.95	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0549 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		
05 05 23 00-0550 EA 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.45	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0551 EA 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.76	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0552 EA 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.96	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0553 EA 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.41	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0554 EA 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.76	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0555 EA 1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.55	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0556 EA 1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.36	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0557 EA 1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.81	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0558 EA 1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.14	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0559 EA 1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.97	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0560 EA 1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.96	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0561 EA 1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.87	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0562 EA 1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.91	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0563 EA 1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.32	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0564 EA 1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.45	
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-2.84	
For >500, Deduct	-3.40	
05 05 23 00-0565 EA 1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.60	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0566 EA 1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.42	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	



		Metals	05
		Common Work Results for Metals	05 05
		Metal Fastenings	05 05 23

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0567	EA	1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.84	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	
05 05 23 00-0568	EA	1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.87	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	
05 05 23 00-0569 9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)				
05 05 23 00-0570	EA	9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.74	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.09	
05 05 23 00-0571	EA	9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.93	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.09	
05 05 23 00-0572	EA	9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.37	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.09	
05 05 23 00-0573	EA	9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.26	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-0574	EA	9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.42	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-0575	EA	9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.06	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-0576	EA	9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.75	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-0577	EA	9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.85	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-0578	EA	9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.26	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-0579	EA	9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.85	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0580	EA	9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.76	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0581	EA	9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.21	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0582	EA	9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.50	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.40	
05 05 23 00-0583	EA	9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.49	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.40	
05 05 23 00-0584	EA	9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.91	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.40	
05 05 23 00-0585 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)				
05 05 23 00-0586	EA	5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.71	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	
05 05 23 00-0587	EA	5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.89	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0588 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.38	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0589 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.34	
For >100 To 250, Deduct	-2.37	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-3.56	
05 05 23 00-0590 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.92	
For >100 To 250, Deduct	-2.37	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-3.56	
05 05 23 00-0591 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.23	
For >100 To 250, Deduct	-2.37	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-3.56	
05 05 23 00-0592 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.71	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	
05 05 23 00-0593 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.75	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	
05 05 23 00-0594 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.21	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	
05 05 23 00-0595 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.94	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.71	
05 05 23 00-0596 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.43	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.71	
05 05 23 00-0597 EA 5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.45	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.71	
05 05 23 00-0598 EA 5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.14	
For >100 To 250, Deduct	-2.53	
For >250 To 500, Deduct	-3.16	
For >500, Deduct	-3.79	
05 05 23 00-0599 EA 5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	24.31	
For >100 To 250, Deduct	-2.53	
For >250 To 500, Deduct	-3.16	
For >500, Deduct	-3.79	
05 05 23 00-0600 EA 5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.79	
For >100 To 250, Deduct	-2.53	
For >250 To 500, Deduct	-3.16	
For >500, Deduct	-3.79	
05 05 23 00-0601 EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.11	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0602 EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	29.39	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0603 EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.56	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0604 EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.68	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0605 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		
05 05 23 00-0606 EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.79	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0607 EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.99	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0608 EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.14	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0609	EA		3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 15.68		
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-2.96	
			For >500, Deduct	-3.56	
05 05 23 00-0610	EA		3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....16.11		
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-2.96	
			For >500, Deduct	-3.56	
05 05 23 00-0611	EA		3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 17.35		
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-2.96	
			For >500, Deduct	-3.56	
05 05 23 00-0612	EA		3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....18.13		
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.03	
			For >500, Deduct	-3.63	
05 05 23 00-0613	EA		3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 18.24		
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.03	
			For >500, Deduct	-3.63	
05 05 23 00-0614	EA		3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....19.92		
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.03	
			For >500, Deduct	-3.63	
05 05 23 00-0615	EA		3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 20.78		
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.09	
			For >500, Deduct	-3.71	
05 05 23 00-0616	EA		3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....21.66		
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.09	
			For >500, Deduct	-3.71	
05 05 23 00-0617	EA		3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 23.31		
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.09	
			For >500, Deduct	-3.71	
05 05 23 00-0618	EA		3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....25.59		
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	
05 05 23 00-0619	EA		3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 26.47		
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	
05 05 23 00-0620	EA		3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....26.93		
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	
05 05 23 00-0621	EA		3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 29.36		
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0622	EA		3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....30.96		
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0623	EA		3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 32.11		
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0624	EA		3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....32.53		
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0625			7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		
05 05 23 00-0626	EA		7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 19.07		
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0627	EA		7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....19.62		
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0628	EA		7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt 20.67		
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0629	EA		7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....22.30		
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0630 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.49	
For >100 To 250, Deduct	-2.63	
For >250 To 500, Deduct	-3.29	
For >500, Deduct	-3.94	
05 05 23 00-0631 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.10	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-3.35	
For >500, Deduct	-4.02	
05 05 23 00-0632 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.04	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-3.35	
For >500, Deduct	-4.02	
05 05 23 00-0633 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.05	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-3.35	
For >500, Deduct	-4.02	
05 05 23 00-0634 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	30.64	
For >100 To 250, Deduct	-2.73	
For >250 To 500, Deduct	-3.41	
For >500, Deduct	-4.10	
05 05 23 00-0635 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.11	
For >100 To 250, Deduct	-2.73	
For >250 To 500, Deduct	-3.41	
For >500, Deduct	-4.10	
05 05 23 00-0636 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	35.93	
For >100 To 250, Deduct	-2.73	
For >250 To 500, Deduct	-3.41	
For >500, Deduct	-4.10	
05 05 23 00-0637 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.48	
For >100 To 250, Deduct	-2.78	
For >250 To 500, Deduct	-3.48	
For >500, Deduct	-4.18	
05 05 23 00-0638 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	41.40	
For >100 To 250, Deduct	-2.78	
For >250 To 500, Deduct	-3.48	
For >500, Deduct	-4.18	
05 05 23 00-0639 EA 7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	42.99	
For >100 To 250, Deduct	-2.78	
For >250 To 500, Deduct	-3.48	
For >500, Deduct	-4.18	
05 05 23 00-0640 EA 7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	44.51	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0641 EA 7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	44.97	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0642 EA 7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	45.36	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0643 EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	46.31	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0644 1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		
05 05 23 00-0645 EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.62	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0646 EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.99	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0647 EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.84	
For >100 To 250, Deduct	-2.63	
For >250 To 500, Deduct	-3.29	
For >500, Deduct	-3.94	
05 05 23 00-0648 EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.86	
For >100 To 250, Deduct	-2.63	
For >250 To 500, Deduct	-3.29	
For >500, Deduct	-3.94	
05 05 23 00-0649 EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.77	
For >100 To 250, Deduct	-2.63	
For >250 To 500, Deduct	-3.29	
For >500, Deduct	-3.94	
05 05 23 00-0650 EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.54	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-3.35	
For >500, Deduct	-4.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0651	EA	1"	Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	28.19 -2.68 -3.35 -4.02	
05 05 23 00-0652	EA	1"	Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	30.39 -2.68 -3.35 -4.02	
05 05 23 00-0653	EA	1"	Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	31.67 -2.73 -3.41 -4.10	
05 05 23 00-0654	EA	1"	Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	32.60 -2.73 -3.41 -4.10	
05 05 23 00-0655	EA	1"	Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	37.21 -2.73 -3.41 -4.10	
05 05 23 00-0656	EA	1"	Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	38.18 -2.78 -3.48 -4.18	
05 05 23 00-0657	EA	1"	Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	43.38 -2.78 -3.48 -4.18	
05 05 23 00-0658	EA	1"	Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	44.28 -2.78 -3.48 -4.18	
05 05 23 00-0659	EA	1"	Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	47.30 -2.83 -3.54 -4.25	
05 05 23 00-0660	EA	1"	Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	48.80 -2.83 -3.54 -4.25	
05 05 23 00-0661	EA	1"	Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	52.76 -2.83 -3.54 -4.25	
05 05 23 00-0662	EA	1"	Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	55.18 -2.83 -3.54 -4.25	
05 05 23 00-0663			Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0664			1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0665	EA	1/4"	Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.41 -1.80 -2.26 -2.71	
05 05 23 00-0666	EA	1/4"	Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.43 -1.80 -2.26 -2.71	
05 05 23 00-0667	EA	1/4"	Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.46 -1.80 -2.26 -2.71	
05 05 23 00-0668	EA	1/4"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.74 -1.80 -2.26 -2.71	
05 05 23 00-0669	EA	1/4"	Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.14 -1.86 -2.32 -2.78	
05 05 23 00-0670	EA	1/4"	Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.30 -1.86 -2.32 -2.78	
05 05 23 00-0671	EA	1/4"	Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.37 -1.86 -2.32 -2.78	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0672 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.64	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0673 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.84	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0674 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.89	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0675 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.28	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0676 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.46	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0677 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.52	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0678 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.94	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0679 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.41	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0680 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.00	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0681 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0682 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.29	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0683 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0684 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.88	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0685 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.90	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.71	
05 05 23 00-0686 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.40	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0687 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.91	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0688 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.01	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0689 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.40	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0690 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.45	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0691 EA 5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.86	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.86	
05 05 23 00-0692 EA 5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.23	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0693	EA		5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.38	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0694	EA		5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.78	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0695	EA		5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.82	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-0696	EA		5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.45	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-0697	EA		5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.03	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-0698			3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0699	EA		3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.45	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0700	EA		3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.58	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0701	EA		3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.71	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0702	EA		3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.04	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0703	EA		3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.44	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0704	EA		3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.72	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0705	EA		3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.91	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0706	EA		3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.43	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0707	EA		3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.57	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0708	EA		3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.90	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0709	EA		3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.30	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0710	EA		3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.76	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0711	EA		3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.84	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0712	EA		3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.13	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-0713	EA		3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.18	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0714 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.71	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.02	
05 05 23 00-0715 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0716 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.56	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0717 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.15	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0718 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.60	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0719 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.62	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0720 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.66	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0721 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.70	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0722 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.34	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0723 EA 7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.76	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0724 EA 7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.14	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	
05 05 23 00-0725 EA 7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.83	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0726 EA 7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.27	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0727 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0728 EA 1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.30	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0729 EA 1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.49	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0730 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.88	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.09	
05 05 23 00-0731 EA 1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.57	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0732 EA 1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.87	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0733 EA 1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.42	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.64	
For >500, Deduct	-3.17	
05 05 23 00-0734 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.77	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.71	
For >500, Deduct	-3.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0735	EA	1/2"	Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.98	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0736	EA	1/2"	Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.42	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-0737	EA	1/2"	Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.88	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0738	EA	1/2"	Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.37	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0739	EA	1/2"	Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.42	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0740	EA	1/2"	Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.77	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0741	EA	1/2"	Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.90	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0742	EA	1/2"	Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.27	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-0743	EA	1/2"	Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.29	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0744	EA	1/2"	Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.59	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0745	EA	1/2"	Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.66	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0746	EA	1/2"	Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.83	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0747			5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0748	EA	5/8"	Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.28	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0749	EA	5/8"	Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.58	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0750	EA	5/8"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.78	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-0751	EA	5/8"	Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.36	
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-2.96	
			For >500, Deduct	-3.56	
05 05 23 00-0752	EA	5/8"	Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.80	
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-2.96	
			For >500, Deduct	-3.56	
05 05 23 00-0753	EA	5/8"	Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.78	
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-2.96	
			For >500, Deduct	-3.56	
05 05 23 00-0754	EA	5/8"	Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.20	
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.03	
			For >500, Deduct	-3.63	
05 05 23 00-0755	EA	5/8"	Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.37	
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.03	
			For >500, Deduct	-3.63	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0756 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.67	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	
05 05 23 00-0757 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.31	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.71	
05 05 23 00-0758 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.66	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.71	
05 05 23 00-0759 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.66	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.71	
05 05 23 00-0760 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.99	
For >100 To 250, Deduct	-2.53	
For >250 To 500, Deduct	-3.16	
For >500, Deduct	-3.79	
05 05 23 00-0761 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.75	
For >100 To 250, Deduct	-2.53	
For >250 To 500, Deduct	-3.16	
For >500, Deduct	-3.79	
05 05 23 00-0762 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.27	
For >100 To 250, Deduct	-2.53	
For >250 To 500, Deduct	-3.16	
For >500, Deduct	-3.79	
05 05 23 00-0763 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.27	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0764 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.10	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0765 EA 5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.01	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0766 EA 5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.15	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0767 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0768 EA 3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.71	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0769 EA 3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.77	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0770 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.14	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0771 EA 3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.20	
For >100 To 250, Deduct	-2.37	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-3.56	
05 05 23 00-0772 EA 3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.57	
For >100 To 250, Deduct	-2.37	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-3.56	
05 05 23 00-0773 EA 3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.45	
For >100 To 250, Deduct	-2.37	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-3.56	
05 05 23 00-0774 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.18	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	
05 05 23 00-0775 EA 3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.26	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	
05 05 23 00-0776 EA 3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.45	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0777	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.82	
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.09	
			For >500, Deduct	-3.71	
05 05 23 00-0778	EA		3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.99	
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.09	
			For >500, Deduct	-3.71	
05 05 23 00-0779	EA		3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.47	
			For >100 To 250, Deduct	-2.47	
			For >250 To 500, Deduct	-3.09	
			For >500, Deduct	-3.71	
05 05 23 00-0780	EA		3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.69	
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	
05 05 23 00-0781	EA		3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.84	
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	
05 05 23 00-0782	EA		3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.32	
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-3.79	
05 05 23 00-0783	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.28	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0784	EA		3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.79	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0785	EA		3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.07	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0786	EA		3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.21	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0787 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)					
05 05 23 00-0788	EA		7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.85	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0789	EA		7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.41	
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-3.87	
05 05 23 00-0790	EA		7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.98	
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0791	EA		7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.91	
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0792	EA		7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.35	
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-3.29	
			For >500, Deduct	-3.94	
05 05 23 00-0793	EA		7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.18	
			For >100 To 250, Deduct	-2.68	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.02	
05 05 23 00-0794	EA		7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.79	
			For >100 To 250, Deduct	-2.68	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.02	
05 05 23 00-0795	EA		7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.58	
			For >100 To 250, Deduct	-2.68	
			For >250 To 500, Deduct	-3.35	
			For >500, Deduct	-4.02	
05 05 23 00-0796	EA		7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.38	
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-3.41	
			For >500, Deduct	-4.10	
05 05 23 00-0797	EA		7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.99	
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-3.41	
			For >500, Deduct	-4.10	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0798 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.85	
For>100 To 250, Deduct	-2.73	
For>250 To 500, Deduct	-3.41	
For>500, Deduct	-4.10	
05 05 23 00-0799 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.79	
For>100 To 250, Deduct	-2.78	
For>250 To 500, Deduct	-3.48	
For>500, Deduct	-4.18	
05 05 23 00-0800 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.92	
For>100 To 250, Deduct	-2.78	
For>250 To 500, Deduct	-3.48	
For>500, Deduct	-4.18	
05 05 23 00-0801 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.19	
For>100 To 250, Deduct	-2.78	
For>250 To 500, Deduct	-3.48	
For>500, Deduct	-4.18	
05 05 23 00-0802 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.76	
For>100 To 250, Deduct	-2.83	
For>250 To 500, Deduct	-3.54	
For>500, Deduct	-4.25	
05 05 23 00-0803 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	35.38	
For>100 To 250, Deduct	-2.83	
For>250 To 500, Deduct	-3.54	
For>500, Deduct	-4.25	
05 05 23 00-0804 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.17	
For>100 To 250, Deduct	-2.83	
For>250 To 500, Deduct	-3.54	
For>500, Deduct	-4.25	
05 05 23 00-0805 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.91	
For>100 To 250, Deduct	-2.83	
For>250 To 500, Deduct	-3.54	
For>500, Deduct	-4.25	
05 05 23 00-0806 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0807 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.79	
For>100 To 250, Deduct	-2.58	
For>250 To 500, Deduct	-3.22	
For>500, Deduct	-3.87	
05 05 23 00-0808 EA 1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.21	
For>100 To 250, Deduct	-2.63	
For>250 To 500, Deduct	-3.29	
For>500, Deduct	-3.94	
05 05 23 00-0809 EA 1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.27	
For>100 To 250, Deduct	-2.63	
For>250 To 500, Deduct	-3.29	
For>500, Deduct	-3.94	
05 05 23 00-0810 EA 1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.10	
For>100 To 250, Deduct	-2.63	
For>250 To 500, Deduct	-3.29	
For>500, Deduct	-3.94	
05 05 23 00-0811 EA 1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.26	
For>100 To 250, Deduct	-2.68	
For>250 To 500, Deduct	-3.35	
For>500, Deduct	-4.02	
05 05 23 00-0812 EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.68	
For>100 To 250, Deduct	-2.68	
For>250 To 500, Deduct	-3.35	
For>500, Deduct	-4.02	
05 05 23 00-0813 EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.91	
For>100 To 250, Deduct	-2.68	
For>250 To 500, Deduct	-3.35	
For>500, Deduct	-4.02	
05 05 23 00-0814 EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.29	
For>100 To 250, Deduct	-2.73	
For>250 To 500, Deduct	-3.41	
For>500, Deduct	-4.10	
05 05 23 00-0815 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.74	
For>100 To 250, Deduct	-2.73	
For>250 To 500, Deduct	-3.41	
For>500, Deduct	-4.10	
05 05 23 00-0816 EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.91	
For>100 To 250, Deduct	-2.73	
For>250 To 500, Deduct	-3.41	
For>500, Deduct	-4.10	
05 05 23 00-0817 EA 1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.96	
For>100 To 250, Deduct	-2.78	
For>250 To 500, Deduct	-3.48	
For>500, Deduct	-4.18	
05 05 23 00-0818 EA 1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.71	
For>100 To 250, Deduct	-2.78	
For>250 To 500, Deduct	-3.48	
For>500, Deduct	-4.18	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0819	EA		1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	38.43	
			For >100 To 250, Deduct	-2.78	
			For >250 To 500, Deduct	-3.48	
			For >500, Deduct	-4.18	
05 05 23 00-0820	EA		1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	39.20	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0821	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	40.60	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0822	EA		1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	41.67	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0823	EA		1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	43.24	
			For >100 To 250, Deduct	-2.83	
			For >250 To 500, Deduct	-3.54	
			For >500, Deduct	-4.25	
05 05 23 00-0824			304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0825			1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0826	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.38	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0827	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.52	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0828	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.69	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0829	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.88	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-0830	EA		1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.32	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0831	EA		1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.61	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0832	EA		1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.94	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-0833	EA		1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.44	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0834	EA		1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.85	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0835	EA		1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.21	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-0836	EA		1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.78	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0837	EA		1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.40	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0838	EA		1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.80	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0839	EA		1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.67	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-0840	EA		1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.02	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0841 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt 25.85 For >100 To 250, Deduct -2.01 For >250 To 500, Deduct -2.51 For >500, Deduct -3.02		
05 05 23 00-0842 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0843 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 9.63 For >100 To 250, Deduct -1.80 For >250 To 500, Deduct -2.26 For >500, Deduct -2.71		
05 05 23 00-0844 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt 9.76 For >100 To 250, Deduct -1.80 For >250 To 500, Deduct -2.26 For >500, Deduct -2.71		
05 05 23 00-0845 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 10.02 For >100 To 250, Deduct -1.80 For >250 To 500, Deduct -2.26 For >500, Deduct -2.71		
05 05 23 00-0846 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 10.24 For >100 To 250, Deduct -1.80 For >250 To 500, Deduct -2.26 For >500, Deduct -2.71		
05 05 23 00-0847 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 10.89 For >100 To 250, Deduct -1.86 For >250 To 500, Deduct -2.32 For >500, Deduct -2.78		
05 05 23 00-0848 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt 11.02 For >100 To 250, Deduct -1.86 For >250 To 500, Deduct -2.32 For >500, Deduct -2.78		
05 05 23 00-0849 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 11.71 For >100 To 250, Deduct -1.86 For >250 To 500, Deduct -2.32 For >500, Deduct -2.78		
05 05 23 00-0850 EA 5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt 12.45 For >100 To 250, Deduct -1.91 For >250 To 500, Deduct -2.38 For >500, Deduct -2.86		
05 05 23 00-0851 EA 5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 13.22 For >100 To 250, Deduct -1.91 For >250 To 500, Deduct -2.38 For >500, Deduct -2.86		
05 05 23 00-0852 EA 5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt 13.60 For >100 To 250, Deduct -1.91 For >250 To 500, Deduct -2.38 For >500, Deduct -2.86		
05 05 23 00-0853 EA 5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 15.04 For >100 To 250, Deduct -1.96 For >250 To 500, Deduct -2.45 For >500, Deduct -2.94		
05 05 23 00-0854 EA 5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt 16.97 For >100 To 250, Deduct -1.96 For >250 To 500, Deduct -2.45 For >500, Deduct -2.94		
05 05 23 00-0855 EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 21.38 For >100 To 250, Deduct -1.96 For >250 To 500, Deduct -2.45 For >500, Deduct -2.94		
05 05 23 00-0856 EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt 28.76 For >100 To 250, Deduct -2.01 For >250 To 500, Deduct -2.51 For >500, Deduct -3.02		
05 05 23 00-0857 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0858 EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 9.96 For >100 To 250, Deduct -1.80 For >250 To 500, Deduct -2.26 For >500, Deduct -2.71		
05 05 23 00-0859 EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt 10.12 For >100 To 250, Deduct -1.80 For >250 To 500, Deduct -2.26 For >500, Deduct -2.71		
05 05 23 00-0860 EA 3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 10.54 For >100 To 250, Deduct -1.80 For >250 To 500, Deduct -2.26 For >500, Deduct -2.71		
05 05 23 00-0861 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 11.07 For >100 To 250, Deduct -1.80 For >250 To 500, Deduct -2.26 For >500, Deduct -2.71		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0862	EA	3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.60		
		For >100 To 250, Deduct	-1.86		
		For >250 To 500, Deduct	-2.32		
		For >500, Deduct	-2.78		
05 05 23 00-0863	EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.02		
		For >100 To 250, Deduct	-1.86		
		For >250 To 500, Deduct	-2.32		
		For >500, Deduct	-2.78		
05 05 23 00-0864	EA	3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.58		
		For >100 To 250, Deduct	-1.86		
		For >250 To 500, Deduct	-2.32		
		For >500, Deduct	-2.78		
05 05 23 00-0865	EA	3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.33		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.38		
		For >500, Deduct	-2.86		
05 05 23 00-0866	EA	3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.99		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.38		
		For >500, Deduct	-2.86		
05 05 23 00-0867	EA	3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.44		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.38		
		For >500, Deduct	-2.86		
05 05 23 00-0868	EA	3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.87		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.94		
05 05 23 00-0869	EA	3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.07		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.94		
05 05 23 00-0870	EA	3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.62		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.94		
05 05 23 00-0871	EA	3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.48		
		For >100 To 250, Deduct	-2.01		
		For >250 To 500, Deduct	-2.51		
		For >500, Deduct	-3.02		
05 05 23 00-0872	EA	3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.84		
		For >100 To 250, Deduct	-2.01		
		For >250 To 500, Deduct	-2.51		
		For >500, Deduct	-3.02		
05 05 23 00-0873	EA	3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.39		
		For >100 To 250, Deduct	-2.01		
		For >250 To 500, Deduct	-2.51		
		For >500, Deduct	-3.02		
05 05 23 00-0874		7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)			
05 05 23 00-0875	EA	7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.61		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.09		
05 05 23 00-0876	EA	7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.78		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.09		
05 05 23 00-0877	EA	7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.46		
		For >100 To 250, Deduct	-2.06		
		For >250 To 500, Deduct	-2.58		
		For >500, Deduct	-3.09		
05 05 23 00-0878	EA	7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.11		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.64		
		For >500, Deduct	-3.17		
05 05 23 00-0879	EA	7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.92		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.64		
		For >500, Deduct	-3.17		
05 05 23 00-0880	EA	7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.28		
		For >100 To 250, Deduct	-2.11		
		For >250 To 500, Deduct	-2.64		
		For >500, Deduct	-3.17		
05 05 23 00-0881	EA	7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.15		
		For >100 To 250, Deduct	-2.16		
		For >250 To 500, Deduct	-2.71		
		For >500, Deduct	-3.25		
05 05 23 00-0882	EA	7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.74		
		For >100 To 250, Deduct	-2.16		
		For >250 To 500, Deduct	-2.71		
		For >500, Deduct	-3.25		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0883	EA	7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.43	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-0884	EA	7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.86	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0885	EA	7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.27	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0886	EA	7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.60	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0887	EA	7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.15	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.40	
05 05 23 00-0888 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)				
05 05 23 00-0889	EA	1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.59	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.09	
05 05 23 00-0890	EA	1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.78	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.09	
05 05 23 00-0891	EA	1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.84	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.09	
05 05 23 00-0892	EA	1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.52	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-0893	EA	1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.48	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-0894	EA	1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.01	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-0895	EA	1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.90	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-0896	EA	1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.37	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-0897	EA	1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.90	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-0898	EA	1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.85	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0899	EA	1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.99	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0900	EA	1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.28	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0901	EA	1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.46	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.40	
05 05 23 00-0902	EA	1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.23	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.40	
05 05 23 00-0903	EA	1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.45	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.40	



		Metals	05
		Common Work Results for Metals	05 05
		Metal Fastenings	05 05 23

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 05 23 00-0904	EA 1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.65		
	For >100 To 250, Deduct	-2.32		
	For >250 To 500, Deduct	-2.90		
	For >500, Deduct	-3.48		
05 05 23 00-0905	EA 1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.14		
	For >100 To 250, Deduct	-2.32		
	For >250 To 500, Deduct	-2.90		
	For >500, Deduct	-3.48		
05 05 23 00-0906	EA 1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.50		
	For >100 To 250, Deduct	-2.32		
	For >250 To 500, Deduct	-2.90		
	For >500, Deduct	-3.48		
05 05 23 00-0907	EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.84		
	For >100 To 250, Deduct	-2.32		
	For >250 To 500, Deduct	-2.90		
	For >500, Deduct	-3.48		
05 05 23 00-0908	9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)			
05 05 23 00-0909	EA 9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.15		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.58		
	For >500, Deduct	-3.09		
05 05 23 00-0910	EA 9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.35		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.58		
	For >500, Deduct	-3.09		
05 05 23 00-0911	EA 9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.21		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.58		
	For >500, Deduct	-3.09		
05 05 23 00-0912	EA 9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.24		
	For >100 To 250, Deduct	-2.11		
	For >250 To 500, Deduct	-2.64		
	For >500, Deduct	-3.17		
05 05 23 00-0913	EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.61		
	For >100 To 250, Deduct	-2.11		
	For >250 To 500, Deduct	-2.64		
	For >500, Deduct	-3.17		
05 05 23 00-0914	EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.00		
	For >100 To 250, Deduct	-2.11		
	For >250 To 500, Deduct	-2.64		
	For >500, Deduct	-3.17		
05 05 23 00-0915	EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.78		
	For >100 To 250, Deduct	-2.16		
	For >250 To 500, Deduct	-2.71		
	For >500, Deduct	-3.25		
05 05 23 00-0916	EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.32		
	For >100 To 250, Deduct	-2.16		
	For >250 To 500, Deduct	-2.71		
	For >500, Deduct	-3.25		
05 05 23 00-0917	EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.38		
	For >100 To 250, Deduct	-2.16		
	For >250 To 500, Deduct	-2.71		
	For >500, Deduct	-3.25		
05 05 23 00-0918	EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.01		
	For >100 To 250, Deduct	-2.22		
	For >250 To 500, Deduct	-2.77		
	For >500, Deduct	-3.32		
05 05 23 00-0919	EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.72		
	For >100 To 250, Deduct	-2.22		
	For >250 To 500, Deduct	-2.77		
	For >500, Deduct	-3.32		
05 05 23 00-0920	5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)			
05 05 23 00-0921	EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.75		
	For >100 To 250, Deduct	-2.32		
	For >250 To 500, Deduct	-2.90		
	For >500, Deduct	-3.48		
05 05 23 00-0922	EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.25		
	For >100 To 250, Deduct	-2.32		
	For >250 To 500, Deduct	-2.90		
	For >500, Deduct	-3.48		
05 05 23 00-0923	EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.36		
	For >100 To 250, Deduct	-2.32		
	For >250 To 500, Deduct	-2.90		
	For >500, Deduct	-3.48		
05 05 23 00-0924	EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.96		
	For >100 To 250, Deduct	-2.37		
	For >250 To 500, Deduct	-2.96		
	For >500, Deduct	-3.56		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0925	EA	5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.96	
		For >100 To 250, Deduct	-2.37	
		For >250 To 500, Deduct	-2.96	
		For >500, Deduct	-3.56	
05 05 23 00-0926	EA	5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.39	
		For >100 To 250, Deduct	-2.37	
		For >250 To 500, Deduct	-2.96	
		For >500, Deduct	-3.56	
05 05 23 00-0927	EA	5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.45	
		For >100 To 250, Deduct	-2.42	
		For >250 To 500, Deduct	-3.03	
		For >500, Deduct	-3.63	
05 05 23 00-0928	EA	5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.46	
		For >100 To 250, Deduct	-2.42	
		For >250 To 500, Deduct	-3.03	
		For >500, Deduct	-3.63	
05 05 23 00-0929	EA	5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.07	
		For >100 To 250, Deduct	-2.42	
		For >250 To 500, Deduct	-3.03	
		For >500, Deduct	-3.63	
05 05 23 00-0930	EA	5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.23	
		For >100 To 250, Deduct	-2.47	
		For >250 To 500, Deduct	-3.09	
		For >500, Deduct	-3.71	
05 05 23 00-0931	EA	5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.67	
		For >100 To 250, Deduct	-2.47	
		For >250 To 500, Deduct	-3.09	
		For >500, Deduct	-3.71	
05 05 23 00-0932	EA	5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.96	
		For >100 To 250, Deduct	-2.47	
		For >250 To 500, Deduct	-3.09	
		For >500, Deduct	-3.71	
05 05 23 00-0933	EA	5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.13	
		For >100 To 250, Deduct	-2.53	
		For >250 To 500, Deduct	-3.16	
		For >500, Deduct	-3.79	
05 05 23 00-0934	EA	5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.53	
		For >100 To 250, Deduct	-2.53	
		For >250 To 500, Deduct	-3.16	
		For >500, Deduct	-3.79	
05 05 23 00-0935	EA	5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.61	
		For >100 To 250, Deduct	-2.53	
		For >250 To 500, Deduct	-3.16	
		For >500, Deduct	-3.79	
05 05 23 00-0936	EA	5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.29	
		For >100 To 250, Deduct	-2.58	
		For >250 To 500, Deduct	-3.22	
		For >500, Deduct	-3.87	
05 05 23 00-0937	EA	5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.70	
		For >100 To 250, Deduct	-2.58	
		For >250 To 500, Deduct	-3.22	
		For >500, Deduct	-3.87	
05 05 23 00-0938	EA	5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	51.99	
		For >100 To 250, Deduct	-2.58	
		For >250 To 500, Deduct	-3.22	
		For >500, Deduct	-3.87	
05 05 23 00-0939	EA	5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	54.58	
		For >100 To 250, Deduct	-2.58	
		For >250 To 500, Deduct	-3.22	
		For >500, Deduct	-3.87	
05 05 23 00-0940		3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0941	EA	3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.05	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	
05 05 23 00-0942	EA	3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.03	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	
05 05 23 00-0943	EA	3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.33	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	
05 05 23 00-0944	EA	3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.99	
		For >100 To 250, Deduct	-2.37	
		For >250 To 500, Deduct	-2.96	
		For >500, Deduct	-3.56	
05 05 23 00-0945	EA	3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.42	
		For >100 To 250, Deduct	-2.37	
		For >250 To 500, Deduct	-2.96	
		For >500, Deduct	-3.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0946	EA	3/4"	Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 25.83 For >100 To 250, Deduct -2.37 For >250 To 500, Deduct -2.96 For >500, Deduct -3.56		
05 05 23 00-0947	EA	3/4"	Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt 27.52 For >100 To 250, Deduct -2.42 For >250 To 500, Deduct -3.03 For >500, Deduct -3.63		
05 05 23 00-0948	EA	3/4"	Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 29.76 For >100 To 250, Deduct -2.42 For >250 To 500, Deduct -3.03 For >500, Deduct -3.63		
05 05 23 00-0949	EA	3/4"	Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt 31.56 For >100 To 250, Deduct -2.42 For >250 To 500, Deduct -3.03 For >500, Deduct -3.63		
05 05 23 00-0950	EA	3/4"	Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 33.66 For >100 To 250, Deduct -2.47 For >250 To 500, Deduct -3.09 For >500, Deduct -3.71		
05 05 23 00-0951	EA	3/4"	Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt 35.75 For >100 To 250, Deduct -2.47 For >250 To 500, Deduct -3.09 For >500, Deduct -3.71		
05 05 23 00-0952	EA	3/4"	Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 39.67 For >100 To 250, Deduct -2.47 For >250 To 500, Deduct -3.09 For >500, Deduct -3.71		
05 05 23 00-0953	EA	3/4"	Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt 50.34 For >100 To 250, Deduct -2.53 For >250 To 500, Deduct -3.16 For >500, Deduct -3.79		
05 05 23 00-0954	EA	3/4"	Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 53.67 For >100 To 250, Deduct -2.53 For >250 To 500, Deduct -3.16 For >500, Deduct -3.79		
05 05 23 00-0955	EA	3/4"	Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt 60.77 For >100 To 250, Deduct -2.53 For >250 To 500, Deduct -3.16 For >500, Deduct -3.79		
05 05 23 00-0956	EA	3/4"	Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 61.36 For >100 To 250, Deduct -2.58 For >250 To 500, Deduct -3.22 For >500, Deduct -3.87		
05 05 23 00-0957	EA	3/4"	Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt 62.48 For >100 To 250, Deduct -2.58 For >250 To 500, Deduct -3.22 For >500, Deduct -3.87		
05 05 23 00-0958	EA	3/4"	Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 65.51 For >100 To 250, Deduct -2.58 For >250 To 500, Deduct -3.22 For >500, Deduct -3.87		
05 05 23 00-0959	EA	3/4"	Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt 67.85 For >100 To 250, Deduct -2.58 For >250 To 500, Deduct -3.22 For >500, Deduct -3.87		
05 05 23 00-0960			7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0924)		
05 05 23 00-0961	EA	7/8"	Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 25.52 For >100 To 250, Deduct -2.58 For >250 To 500, Deduct -3.22 For >500, Deduct -3.87		
05 05 23 00-0962	EA	7/8"	Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 27.97 For >100 To 250, Deduct -2.58 For >250 To 500, Deduct -3.22 For >500, Deduct -3.87		
05 05 23 00-0963	EA	7/8"	Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 30.10 For >100 To 250, Deduct -2.63 For >250 To 500, Deduct -3.29 For >500, Deduct -3.94		
05 05 23 00-0964	EA	7/8"	Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt 32.59 For >100 To 250, Deduct -2.63 For >250 To 500, Deduct -3.29 For >500, Deduct -3.94		
05 05 23 00-0965	EA	7/8"	Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt 33.40 For >100 To 250, Deduct -2.63 For >250 To 500, Deduct -3.29 For >500, Deduct -3.94		
05 05 23 00-0966	EA	7/8"	Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt 35.70 For >100 To 250, Deduct -2.68 For >250 To 500, Deduct -3.35 For >500, Deduct -4.02		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0967 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.50	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-3.35	
For >500, Deduct	-4.02	
05 05 23 00-0968 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.92	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-3.35	
For >500, Deduct	-4.02	
05 05 23 00-0969 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.98	
For >100 To 250, Deduct	-2.73	
For >250 To 500, Deduct	-3.41	
For >500, Deduct	-4.10	
05 05 23 00-0970 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.07	
For >100 To 250, Deduct	-2.73	
For >250 To 500, Deduct	-3.41	
For >500, Deduct	-4.10	
05 05 23 00-0971 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	56.56	
For >100 To 250, Deduct	-2.73	
For >250 To 500, Deduct	-3.41	
For >500, Deduct	-4.10	
05 05 23 00-0972 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	61.23	
For >100 To 250, Deduct	-2.78	
For >250 To 500, Deduct	-3.48	
For >500, Deduct	-4.18	
05 05 23 00-0973 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	66.39	
For >100 To 250, Deduct	-2.78	
For >250 To 500, Deduct	-3.48	
For >500, Deduct	-4.18	
05 05 23 00-0974 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	70.54	
For >100 To 250, Deduct	-2.78	
For >250 To 500, Deduct	-3.48	
For >500, Deduct	-4.18	
05 05 23 00-0975 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	83.40	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0976 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	93.50	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0977 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	98.17	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0978 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	102.83	
For >100 To 250, Deduct	-2.83	
For >250 To 500, Deduct	-3.54	
For >500, Deduct	-4.25	
05 05 23 00-0979 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0980 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.47	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0981 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.26	
For >100 To 250, Deduct	-2.58	
For >250 To 500, Deduct	-3.22	
For >500, Deduct	-3.87	
05 05 23 00-0982 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.18	
For >100 To 250, Deduct	-2.63	
For >250 To 500, Deduct	-3.29	
For >500, Deduct	-3.94	
05 05 23 00-0983 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.44	
For >100 To 250, Deduct	-2.63	
For >250 To 500, Deduct	-3.29	
For >500, Deduct	-3.94	
05 05 23 00-0984 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.15	
For >100 To 250, Deduct	-2.63	
For >250 To 500, Deduct	-3.29	
For >500, Deduct	-3.94	
05 05 23 00-0985 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.58	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-3.35	
For >500, Deduct	-4.02	
05 05 23 00-0986 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.16	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-3.35	
For >500, Deduct	-4.02	
05 05 23 00-0987 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	52.99	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-3.35	
For >500, Deduct	-4.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0988	EA	1"	Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	56.83 -2.73 -3.41 -4.10	
05 05 23 00-0989	EA	1"	Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	57.04 -2.73 -3.41 -4.10	
05 05 23 00-0990	EA	1"	Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	67.30 -2.73 -3.41 -4.10	
05 05 23 00-0991	EA	1"	Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	80.54 -2.78 -3.48 -4.18	
05 05 23 00-0992	EA	1"	Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	82.47 -2.78 -3.48 -4.18	
05 05 23 00-0993	EA	1"	Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	84.41 -2.78 -3.48 -4.18	
05 05 23 00-0994	EA	1"	Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	88.52 -2.83 -3.54 -4.25	
05 05 23 00-0995	EA	1"	Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	94.45 -2.83 -3.54 -4.25	
05 05 23 00-0996	EA	1"	Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	121.35 -2.83 -3.54 -4.25	
05 05 23 00-0997	EA	1"	Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	152.69 -2.83 -3.54 -4.25	
05 05 23 00-0998			316 Stainless Steel, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0999			1/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1000	EA	1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.64 -1.80 -2.26 -2.71	
05 05 23 00-1001	EA	1"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.93 -1.80 -2.26 -2.71	
05 05 23 00-1002	EA	1-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.13 -1.80 -2.26 -2.71	
05 05 23 00-1003	EA	2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.28 -1.80 -2.26 -2.71	
05 05 23 00-1004	EA	2-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.94 -1.86 -2.32 -2.78	
05 05 23 00-1005	EA	3"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.31 -1.86 -2.32 -2.78	
05 05 23 00-1006	EA	3-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.67 -1.86 -2.32 -2.78	
05 05 23 00-1007	EA	4"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.21 -1.91 -2.38 -2.86	
05 05 23 00-1008	EA	4-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.52 -1.91 -2.38 -2.86	
05 05 23 00-1009	EA	5"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.66 -1.91 -2.38 -2.86	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1010	EA	5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	13.86	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-1011	EA	6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	14.12	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-1012	EA	6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	23.54	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-1013	EA	7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	35.21	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.02	
05 05 23 00-1014	EA	7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	60.36	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.02	
05 05 23 00-1015	EA	8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	66.09	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.02	
05 05 23 00-1016 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)				
05 05 23 00-1017	EA	5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.03	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	
05 05 23 00-1018	EA	5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	10.35	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	
05 05 23 00-1019	EA	5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.89	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	
05 05 23 00-1020	EA	5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	11.30	
		For >100 To 250, Deduct	-1.80	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.71	
05 05 23 00-1021	EA	5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.73	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.32	
		For >500, Deduct	-2.78	
05 05 23 00-1022	EA	5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	12.56	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.32	
		For >500, Deduct	-2.78	
05 05 23 00-1023	EA	5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.14	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.32	
		For >500, Deduct	-2.78	
05 05 23 00-1024	EA	5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	13.64	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.38	
		For >500, Deduct	-2.86	
05 05 23 00-1025	EA	5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.88	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.38	
		For >500, Deduct	-2.86	
05 05 23 00-1026	EA	5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	15.13	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.38	
		For >500, Deduct	-2.86	
05 05 23 00-1027	EA	5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.26	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-1028	EA	5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	17.22	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-1029	EA	5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.24	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-1030	EA	5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	36.89	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1031			3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1032	EA		3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.88	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-1033	EA		3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	11.01	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-1034	EA		3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.51	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-1035	EA		3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	12.71	
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.71	
05 05 23 00-1036	EA		3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.39	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-1037	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	13.61	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-1038	EA		3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.65	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.32	
			For >500, Deduct	-2.78	
05 05 23 00-1039	EA		3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	15.05	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-1040	EA		3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.71	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-1041	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	16.15	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-2.86	
05 05 23 00-1042	EA		3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.86	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-1043	EA		3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	19.62	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-1044	EA		3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.70	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-1045	EA		3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	24.42	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-1046	EA		3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.68	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-1047	EA		3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	39.52	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.02	
05 05 23 00-1048			7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1049	EA		7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	14.17	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-1050	EA		7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.93	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-1051	EA		7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	16.33	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-1052	EA		7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.80	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1053	EA	7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	19.15	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-1054	EA	7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.37	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-1055	EA	7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	23.76	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-1056	EA	7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.14	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-1057	EA	7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	24.96	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-1058	EA	7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.76	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-1059	EA	7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	26.34	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-1060	EA	7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.92	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-1061	EA	7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	27.64	
		For >100 To 250, Deduct	-2.27	
		For >250 To 500, Deduct	-2.84	
		For >500, Deduct	-3.40	
05 05 23 00-1062		1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1063	EA	1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	14.13	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.09	
05 05 23 00-1064	EA	1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.94	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.09	
05 05 23 00-1065	EA	1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	16.08	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.09	
05 05 23 00-1066	EA	1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.69	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-1067	EA	1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	18.94	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-1068	EA	1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.25	
		For >100 To 250, Deduct	-2.11	
		For >250 To 500, Deduct	-2.64	
		For >500, Deduct	-3.17	
05 05 23 00-1069	EA	1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	20.03	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-1070	EA	1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.45	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-1071	EA	1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	27.35	
		For >100 To 250, Deduct	-2.16	
		For >250 To 500, Deduct	-2.71	
		For >500, Deduct	-3.25	
05 05 23 00-1072	EA	1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.98	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-1073	EA	1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	28.75	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1074	EA		1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.81	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-1075	EA		1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	39.13	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-1076	EA		1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.75	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-1077	EA		1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	46.10	
			For >100 To 250, Deduct	-2.27	
			For >250 To 500, Deduct	-2.84	
			For >500, Deduct	-3.40	
05 05 23 00-1078	EA		1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	57.85	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-1079	EA		1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	65.27	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-1080	EA		1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	66.48	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-1081	EA		1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	68.37	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-2.90	
			For >500, Deduct	-3.48	
05 05 23 00-1082 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)					
05 05 23 00-1083	EA		9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	34.45	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-1084	EA		9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.11	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-1085	EA		9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	46.04	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.09	
05 05 23 00-1086	EA		9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	51.29	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-1087	EA		9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	56.56	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-1088	EA		9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	61.83	
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-2.64	
			For >500, Deduct	-3.17	
05 05 23 00-1089	EA		9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	65.37	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-1090	EA		9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	69.72	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-1091	EA		9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	73.58	
			For >100 To 250, Deduct	-2.16	
			For >250 To 500, Deduct	-2.71	
			For >500, Deduct	-3.25	
05 05 23 00-1092	EA		9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	75.00	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-1093	EA		9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	78.40	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	

05 05 23 00-1094 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1095	EA	5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	19.56	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	
05 05 23 00-1096	EA	5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.79	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	
05 05 23 00-1097	EA	5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	19.87	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	
05 05 23 00-1098	EA	5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.64	
		For >100 To 250, Deduct	-2.37	
		For >250 To 500, Deduct	-2.96	
		For >500, Deduct	-3.56	
05 05 23 00-1099	EA	5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	23.20	
		For >100 To 250, Deduct	-2.37	
		For >250 To 500, Deduct	-2.96	
		For >500, Deduct	-3.56	
05 05 23 00-1100	EA	5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.17	
		For >100 To 250, Deduct	-2.37	
		For >250 To 500, Deduct	-2.96	
		For >500, Deduct	-3.56	
05 05 23 00-1101	EA	5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	29.47	
		For >100 To 250, Deduct	-2.42	
		For >250 To 500, Deduct	-3.03	
		For >500, Deduct	-3.63	
05 05 23 00-1102	EA	5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.82	
		For >100 To 250, Deduct	-2.42	
		For >250 To 500, Deduct	-3.03	
		For >500, Deduct	-3.63	
05 05 23 00-1103	EA	5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	35.32	
		For >100 To 250, Deduct	-2.42	
		For >250 To 500, Deduct	-3.03	
		For >500, Deduct	-3.63	
05 05 23 00-1104	EA	5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.43	
		For >100 To 250, Deduct	-2.47	
		For >250 To 500, Deduct	-3.09	
		For >500, Deduct	-3.71	
05 05 23 00-1105	EA	5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	39.67	
		For >100 To 250, Deduct	-2.47	
		For >250 To 500, Deduct	-3.09	
		For >500, Deduct	-3.71	
05 05 23 00-1106	EA	5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.27	
		For >100 To 250, Deduct	-2.47	
		For >250 To 500, Deduct	-3.09	
		For >500, Deduct	-3.71	
05 05 23 00-1107	EA	5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	50.29	
		For >100 To 250, Deduct	-2.53	
		For >250 To 500, Deduct	-3.16	
		For >500, Deduct	-3.79	
05 05 23 00-1108	EA	5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	51.25	
		For >100 To 250, Deduct	-2.53	
		For >250 To 500, Deduct	-3.16	
		For >500, Deduct	-3.79	
05 05 23 00-1109	EA	5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	54.81	
		For >100 To 250, Deduct	-2.53	
		For >250 To 500, Deduct	-3.16	
		For >500, Deduct	-3.79	
05 05 23 00-1110	EA	5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	58.27	
		For >100 To 250, Deduct	-2.58	
		For >250 To 500, Deduct	-3.22	
		For >500, Deduct	-3.87	
05 05 23 00-1111	EA	5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	61.28	
		For >100 To 250, Deduct	-2.58	
		For >250 To 500, Deduct	-3.22	
		For >500, Deduct	-3.87	
05 05 23 00-1112	EA	5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	75.65	
		For >100 To 250, Deduct	-2.58	
		For >250 To 500, Deduct	-3.22	
		For >500, Deduct	-3.87	
05 05 23 00-1113	EA	5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	91.00	
		For >100 To 250, Deduct	-2.58	
		For >250 To 500, Deduct	-3.22	
		For >500, Deduct	-3.87	
05 05 23 00-1114		3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1115	EA	3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	25.60	
		For >100 To 250, Deduct	-2.32	
		For >250 To 500, Deduct	-2.90	
		For >500, Deduct	-3.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1116	EA	3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	26.14	
		For >100 To 250, Deduct	.....	-2.32	
		For >250 To 500, Deduct	.....	-2.90	
		For >500, Deduct	.....	-3.48	
05 05 23 00-1117	EA	3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	.....	28.21	
		For >100 To 250, Deduct	.....	-2.32	
		For >250 To 500, Deduct	.....	-2.90	
		For >500, Deduct	.....	-3.48	
05 05 23 00-1118	EA	3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	30.27	
		For >100 To 250, Deduct	.....	-2.37	
		For >250 To 500, Deduct	.....	-2.96	
		For >500, Deduct	.....	-3.56	
05 05 23 00-1119	EA	3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	.....	34.13	
		For >100 To 250, Deduct	.....	-2.37	
		For >250 To 500, Deduct	.....	-2.96	
		For >500, Deduct	.....	-3.56	
05 05 23 00-1120	EA	3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	36.37	
		For >100 To 250, Deduct	.....	-2.37	
		For >250 To 500, Deduct	.....	-2.96	
		For >500, Deduct	.....	-3.56	
05 05 23 00-1121	EA	3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	.....	41.40	
		For >100 To 250, Deduct	.....	-2.42	
		For >250 To 500, Deduct	.....	-3.03	
		For >500, Deduct	.....	-3.63	
05 05 23 00-1122	EA	3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	43.37	
		For >100 To 250, Deduct	.....	-2.42	
		For >250 To 500, Deduct	.....	-3.03	
		For >500, Deduct	.....	-3.63	
05 05 23 00-1123	EA	3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	.....	44.46	
		For >100 To 250, Deduct	.....	-2.42	
		For >250 To 500, Deduct	.....	-3.03	
		For >500, Deduct	.....	-3.63	
05 05 23 00-1124	EA	3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	46.15	
		For >100 To 250, Deduct	.....	-2.47	
		For >250 To 500, Deduct	.....	-3.09	
		For >500, Deduct	.....	-3.71	
05 05 23 00-1125	EA	3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	.....	48.63	
		For >100 To 250, Deduct	.....	-2.47	
		For >250 To 500, Deduct	.....	-3.09	
		For >500, Deduct	.....	-3.71	
05 05 23 00-1126	EA	3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	56.23	
		For >100 To 250, Deduct	.....	-2.47	
		For >250 To 500, Deduct	.....	-3.09	
		For >500, Deduct	.....	-3.71	
05 05 23 00-1127	EA	3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	.....	67.51	
		For >100 To 250, Deduct	.....	-2.53	
		For >250 To 500, Deduct	.....	-3.16	
		For >500, Deduct	.....	-3.79	
05 05 23 00-1128	EA	3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	76.09	
		For >100 To 250, Deduct	.....	-2.53	
		For >250 To 500, Deduct	.....	-3.16	
		For >500, Deduct	.....	-3.79	
05 05 23 00-1129	EA	3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	.....	77.38	
		For >100 To 250, Deduct	.....	-2.53	
		For >250 To 500, Deduct	.....	-3.16	
		For >500, Deduct	.....	-3.79	
05 05 23 00-1130	EA	3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	82.80	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-1131	EA	3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	.....	95.79	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-1132	EA	3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	96.89	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-1133	EA	3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	.....	99.63	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-1134		7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)	.....	28.86	
05 05 23 00-1135	EA	7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	28.86	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	
05 05 23 00-1136	EA	7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	.....	32.43	
		For >100 To 250, Deduct	.....	-2.58	
		For >250 To 500, Deduct	.....	-3.22	
		For >500, Deduct	.....	-3.87	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1137	EA	7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.63	
		For >100 To 250, Deduct	-2.63	
		For >250 To 500, Deduct	-3.29	
		For >500, Deduct	-3.94	
05 05 23 00-1138	EA	7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	39.63	
		For >100 To 250, Deduct	-2.63	
		For >250 To 500, Deduct	-3.29	
		For >500, Deduct	-3.94	
05 05 23 00-1139	EA	7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.87	
		For >100 To 250, Deduct	-2.63	
		For >250 To 500, Deduct	-3.29	
		For >500, Deduct	-3.94	
05 05 23 00-1140	EA	7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	44.10	
		For >100 To 250, Deduct	-2.68	
		For >250 To 500, Deduct	-3.35	
		For >500, Deduct	-4.02	
05 05 23 00-1141	EA	7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.14	
		For >100 To 250, Deduct	-2.68	
		For >250 To 500, Deduct	-3.35	
		For >500, Deduct	-4.02	
05 05 23 00-1142	EA	7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	53.95	
		For >100 To 250, Deduct	-2.68	
		For >250 To 500, Deduct	-3.35	
		For >500, Deduct	-4.02	
05 05 23 00-1143	EA	7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.38	
		For >100 To 250, Deduct	-2.73	
		For >250 To 500, Deduct	-3.41	
		For >500, Deduct	-4.10	
05 05 23 00-1144	EA	7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	56.64	
		For >100 To 250, Deduct	-2.73	
		For >250 To 500, Deduct	-3.41	
		For >500, Deduct	-4.10	
05 05 23 00-1145	EA	7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	75.72	
		For >100 To 250, Deduct	-2.73	
		For >250 To 500, Deduct	-3.41	
		For >500, Deduct	-4.10	
05 05 23 00-1146	EA	7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	84.41	
		For >100 To 250, Deduct	-2.78	
		For >250 To 500, Deduct	-3.48	
		For >500, Deduct	-4.18	
05 05 23 00-1147	EA	7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	93.46	
		For >100 To 250, Deduct	-2.78	
		For >250 To 500, Deduct	-3.48	
		For >500, Deduct	-4.18	
05 05 23 00-1148	EA	7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	97.92	
		For >100 To 250, Deduct	-2.78	
		For >250 To 500, Deduct	-3.48	
		For >500, Deduct	-4.18	
05 05 23 00-1149	EA	7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	103.97	
		For >100 To 250, Deduct	-2.83	
		For >250 To 500, Deduct	-3.54	
		For >500, Deduct	-4.25	
05 05 23 00-1150	EA	7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	107.85	
		For >100 To 250, Deduct	-2.83	
		For >250 To 500, Deduct	-3.54	
		For >500, Deduct	-4.25	
05 05 23 00-1151	EA	7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	111.69	
		For >100 To 250, Deduct	-2.83	
		For >250 To 500, Deduct	-3.54	
		For >500, Deduct	-4.25	
05 05 23 00-1152	EA	7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	116.02	
		For >100 To 250, Deduct	-2.83	
		For >250 To 500, Deduct	-3.54	
		For >500, Deduct	-4.25	
05 05 23 00-1153		1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1154	EA	1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	36.72	
		For >100 To 250, Deduct	-2.58	
		For >250 To 500, Deduct	-3.22	
		For >500, Deduct	-3.87	
05 05 23 00-1155	EA	1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.47	
		For >100 To 250, Deduct	-2.63	
		For >250 To 500, Deduct	-3.29	
		For >500, Deduct	-3.94	
05 05 23 00-1156	EA	1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	46.16	
		For >100 To 250, Deduct	-2.63	
		For >250 To 500, Deduct	-3.29	
		For >500, Deduct	-3.94	
05 05 23 00-1157	EA	1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	52.05	
		For >100 To 250, Deduct	-2.63	
		For >250 To 500, Deduct	-3.29	
		For >500, Deduct	-3.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1158	EA		1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt 54.42 <i>For >100 To 250, Deduct</i> -2.68 <i>For >250 To 500, Deduct</i> -3.35 <i>For >500, Deduct</i> -4.02		
05 05 23 00-1159	EA		1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt 58.41 <i>For >100 To 250, Deduct</i> -2.68 <i>For >250 To 500, Deduct</i> -3.35 <i>For >500, Deduct</i> -4.02		
05 05 23 00-1160	EA		1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt 62.45 <i>For >100 To 250, Deduct</i> -2.68 <i>For >250 To 500, Deduct</i> -3.35 <i>For >500, Deduct</i> -4.02		
05 05 23 00-1161	EA		1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt 66.76 <i>For >100 To 250, Deduct</i> -2.73 <i>For >250 To 500, Deduct</i> -3.41 <i>For >500, Deduct</i> -4.10		
05 05 23 00-1162	EA		1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt 77.18 <i>For >100 To 250, Deduct</i> -2.73 <i>For >250 To 500, Deduct</i> -3.41 <i>For >500, Deduct</i> -4.10		
05 05 23 00-1163	EA		1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt 87.46 <i>For >100 To 250, Deduct</i> -2.73 <i>For >250 To 500, Deduct</i> -3.41 <i>For >500, Deduct</i> -4.10		
05 05 23 00-1164	EA		1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt 101.79 <i>For >100 To 250, Deduct</i> -2.78 <i>For >250 To 500, Deduct</i> -3.48 <i>For >500, Deduct</i> -4.18		
05 05 23 00-1165	EA		1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt 113.60 <i>For >100 To 250, Deduct</i> -2.78 <i>For >250 To 500, Deduct</i> -3.48 <i>For >500, Deduct</i> -4.18		
05 05 23 00-1166	EA		1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt 115.30 <i>For >100 To 250, Deduct</i> -2.78 <i>For >250 To 500, Deduct</i> -3.48 <i>For >500, Deduct</i> -4.18		
05 05 23 00-1167	EA		1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt 119.41 <i>For >100 To 250, Deduct</i> -2.83 <i>For >250 To 500, Deduct</i> -3.54 <i>For >500, Deduct</i> -4.25		
05 05 23 00-1168	EA		1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt 121.04 <i>For >100 To 250, Deduct</i> -2.83 <i>For >250 To 500, Deduct</i> -3.54 <i>For >500, Deduct</i> -4.25		
05 05 23 00-1169	EA		1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt 140.66 <i>For >100 To 250, Deduct</i> -2.83 <i>For >250 To 500, Deduct</i> -3.54 <i>For >500, Deduct</i> -4.25		
05 05 23 00-1170	EA		1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt 159.60 <i>For >100 To 250, Deduct</i> -2.83 <i>For >250 To 500, Deduct</i> -3.54 <i>For >500, Deduct</i> -4.25		
05 05 23 00-1171			Screws (05 05 23)		
05 05 23 00-1172			Teks® 5 Self Drilling Screws (05 05 23 00-1171) Note: Includes Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1173	EA		12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw 4.84 <i>For >10 To 50, Deduct</i> -0.21 <i>For >50 To 100, Deduct</i> -0.44 <i>For >100, Deduct</i> -0.89		
05 05 23 00-1174	EA		12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw 5.04 <i>For >10 To 50, Deduct</i> -0.21 <i>For >50 To 100, Deduct</i> -0.45 <i>For >100, Deduct</i> -0.90		
05 05 23 00-1175	EA		12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw 5.61 <i>For >10 To 50, Deduct</i> -0.23 <i>For >50 To 100, Deduct</i> -0.48 <i>For >100, Deduct</i> -0.97		
05 05 23 00-1176	EA		1/4" x 3", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw 7.68 <i>For >10 To 50, Deduct</i> -0.29 <i>For >50 To 100, Deduct</i> -0.62 <i>For >100, Deduct</i> -1.24		
05 05 23 00-1177	EA		1/4" x 4", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw 8.21 <i>For >10 To 50, Deduct</i> -0.30 <i>For >50 To 100, Deduct</i> -0.66 <i>For >100, Deduct</i> -1.31		
05 05 23 00-1178	EA		1/4" x 6", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw 10.08 <i>For >10 To 50, Deduct</i> -0.32 <i>For >50 To 100, Deduct</i> -0.72 <i>For >100, Deduct</i> -1.45		
05 05 23 00-1179	EA		1/4" x 8", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw 11.25 <i>For >10 To 50, Deduct</i> -0.33 <i>For >50 To 100, Deduct</i> -0.78 <i>For >100, Deduct</i> -1.55		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1180		Security Screws (05 05 23 00-1171)		
05 05 23 00-1181		304/18-8 Stainless Steel, Security Screws (05 05 23 00-1180) Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1182	EA	#4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws	3.81	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.37	
		For >100, Deduct	-0.73	
05 05 23 00-1183	EA	#6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.36	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.38	
		For >100, Deduct	-0.76	
05 05 23 00-1184	EA	#6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.84	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.39	
		For >100, Deduct	-0.78	
05 05 23 00-1185	EA	#6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	5.00	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.40	
		For >100, Deduct	-0.79	
05 05 23 00-1186	EA	#6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.31	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.40	
		For >100, Deduct	-0.81	
05 05 23 00-1187	EA	#8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.49	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.38	
		For >100, Deduct	-0.76	
05 05 23 00-1188	EA	#8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.71	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.39	
		For >100, Deduct	-0.78	
05 05 23 00-1189	EA	#8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	5.19	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.40	
		For >100, Deduct	-0.80	
05 05 23 00-1190	EA	#8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.33	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.40	
		For >100, Deduct	-0.81	
05 05 23 00-1191	EA	#10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.63	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.39	
		For >100, Deduct	-0.77	
05 05 23 00-1192	EA	#10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.69	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.39	
		For >100, Deduct	-0.77	
05 05 23 00-1193	EA	#10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.90	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.39	
		For >100, Deduct	-0.79	
05 05 23 00-1194	EA	#10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.54	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.41	
		For >100, Deduct	-0.82	
05 05 23 00-1195	EA	1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	5.00	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.40	
		For >100, Deduct	-0.79	
05 05 23 00-1196	EA	1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	5.14	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.40	
		For >100, Deduct	-0.80	
05 05 23 00-1197	EA	1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	5.76	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.41	
		For >100, Deduct	-0.83	
05 05 23 00-1198	EA	1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	6.73	
		For >10 To 50, Deduct	-0.18	
		For >50 To 100, Deduct	-0.44	
		For >100, Deduct	-0.88	
05 05 23 00-1199		Threaded Rod (05 05 23) Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1292 for nuts and washers.		
05 05 23 00-1200		Plain Finish Steel, Low Carbon Threaded Rod (05 05 23 00-1199)		
05 05 23 00-1201	LF	1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.18	0.60
		For Left Hand Threaded Rod, Add	0.10	
05 05 23 00-1202	LF	5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.80	0.66
		For Left Hand Threaded Rod, Add	0.15	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1203	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.25	0.76
		<i>For Left Hand Threaded Rod, Add</i>	0.17	
05 05 23 00-1204	LF	7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.26	0.78
		<i>For Left Hand Threaded Rod, Add</i>	0.27	
05 05 23 00-1205	LF	1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.37	0.81
		<i>For Left Hand Threaded Rod, Add</i>	0.28	
05 05 23 00-1206	LF	9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.33	0.82
		<i>For Left Hand Threaded Rod, Add</i>	0.37	
05 05 23 00-1207	LF	5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.96	0.83
		<i>For Left Hand Threaded Rod, Add</i>	0.43	
05 05 23 00-1208	LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	9.52	0.85
		<i>For Left Hand Threaded Rod, Add</i>	0.78	
05 05 23 00-1209	LF	7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.35	0.88
		<i>For Left Hand Threaded Rod, Add</i>	0.86	
05 05 23 00-1210	LF	1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.04	1.00
		<i>For Left Hand Threaded Rod, Add</i>	1.20	
05 05 23 00-1211	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.41	1.11
		<i>For Left Hand Threaded Rod, Add</i>	1.52	
05 05 23 00-1212	LF	1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	23.00	1.20
		<i>For Left Hand Threaded Rod, Add</i>	2.05	
05 05 23 00-1213	LF	1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	28.49	1.30
		<i>For Left Hand Threaded Rod, Add</i>	2.59	
05 05 23 00-1214	LF	1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	33.97	1.36
		<i>For Left Hand Threaded Rod, Add</i>	3.12	
05 05 23 00-1215	LF	1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	41.53	1.43
		<i>For Left Hand Threaded Rod, Add</i>	3.87	
05 05 23 00-1216	LF	2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	52.89	1.51
		<i>For Left Hand Threaded Rod, Add</i>	4.99	
05 05 23 00-1217 Zinc Plated Steel, Low Carbon Threaded Rod (05 05 23 00-1199)				
05 05 23 00-1218	LF	1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.19	0.60
		<i>For Left Hand Threaded Rod, Add</i>	0.10	
05 05 23 00-1219	LF	5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.13	0.66
		<i>For Left Hand Threaded Rod, Add</i>	0.18	
05 05 23 00-1220	LF	3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.50	0.76
		<i>For Left Hand Threaded Rod, Add</i>	0.20	
05 05 23 00-1221	LF	7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	4.87	0.78
		<i>For Left Hand Threaded Rod, Add</i>	0.33	
05 05 23 00-1222	LF	1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	5.23	0.81
		<i>For Left Hand Threaded Rod, Add</i>	0.36	
05 05 23 00-1223	LF	9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	6.73	0.82
		<i>For Left Hand Threaded Rod, Add</i>	0.51	
05 05 23 00-1224	LF	5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	7.13	0.83
		<i>For Left Hand Threaded Rod, Add</i>	0.55	
05 05 23 00-1225	LF	3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	10.52	0.85
		<i>For Left Hand Threaded Rod, Add</i>	0.88	
05 05 23 00-1226	LF	7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	13.51	0.88
		<i>For Left Hand Threaded Rod, Add</i>	1.17	
05 05 23 00-1227	LF	1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	18.04	1.00
		<i>For Left Hand Threaded Rod, Add</i>	1.60	
05 05 23 00-1228	LF	1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	23.19	1.11
		<i>For Left Hand Threaded Rod, Add</i>	2.10	
05 05 23 00-1229	LF	1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	27.64	1.20
		<i>For Left Hand Threaded Rod, Add</i>	2.51	
05 05 23 00-1230	LF	1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	31.37	1.30
		<i>For Left Hand Threaded Rod, Add</i>	2.88	
05 05 23 00-1231	LF	1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	39.35	1.36
		<i>For Left Hand Threaded Rod, Add</i>	3.66	
05 05 23 00-1232	LF	1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	48.62	1.43
		<i>For Left Hand Threaded Rod, Add</i>	4.58	
05 05 23 00-1233	LF	2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	70.65	1.51
		<i>For Left Hand Threaded Rod, Add</i>	6.77	
05 05 23 00-1234 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod (05 05 23 00-1199)				
05 05 23 00-1235	LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	5.51	0.76
		<i>For Left Hand Threaded Rod, Add</i>	0.40	
05 05 23 00-1236	LF	1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	7.58	0.81
		<i>For Left Hand Threaded Rod, Add</i>	0.60	
05 05 23 00-1237	LF	5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	10.10	0.83
		<i>For Left Hand Threaded Rod, Add</i>	0.84	
05 05 23 00-1238	LF	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	13.73	0.85
		<i>For Left Hand Threaded Rod, Add</i>	1.20	
05 05 23 00-1239	LF	7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	18.85	0.88
		<i>For Left Hand Threaded Rod, Add</i>	1.71	
05 05 23 00-1240	LF	1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	24.24	1.00
		<i>For Left Hand Threaded Rod, Add</i>	2.22	
05 05 23 00-1241	LF	1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	31.79	1.11
		<i>For Left Hand Threaded Rod, Add</i>	2.96	
05 05 23 00-1242	LF	1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	41.71	1.20
		<i>For Left Hand Threaded Rod, Add</i>	3.92	
05 05 23 00-1243	LF	1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	46.57	1.30
		<i>For Left Hand Threaded Rod, Add</i>	4.40	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1244	LF	1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	55.33	1.36
		<i>For Left Hand Threaded Rod, Add</i>	5.26	
05 05 23 00-1245	LF	1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	67.11	1.43
		<i>For Left Hand Threaded Rod, Add</i>	6.43	
05 05 23 00-1246	LF	2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	116.64	1.51
		<i>For Left Hand Threaded Rod, Add</i>	11.36	
05 05 23 00-1247 304/18-8 Stainless Steel Threaded Rod (05 05 23 00-1199)				
05 05 23 00-1248	LF	1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.12	0.60
		<i>For Left Hand Threaded Rod, Add</i>	0.29	
05 05 23 00-1249	LF	5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.31	0.66
		<i>For Left Hand Threaded Rod, Add</i>	0.50	
05 05 23 00-1250	LF	3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	8.16	0.76
		<i>For Left Hand Threaded Rod, Add</i>	0.67	
05 05 23 00-1251	LF	7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	11.45	0.78
		<i>For Left Hand Threaded Rod, Add</i>	0.99	
05 05 23 00-1252	LF	1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	13.79	0.81
		<i>For Left Hand Threaded Rod, Add</i>	1.22	
05 05 23 00-1253	LF	9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	19.98	0.82
		<i>For Left Hand Threaded Rod, Add</i>	1.84	
05 05 23 00-1254	LF	5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	20.87	0.83
		<i>For Left Hand Threaded Rod, Add</i>	1.92	
05 05 23 00-1255	LF	3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	29.36	0.85
		<i>For Left Hand Threaded Rod, Add</i>	2.77	
05 05 23 00-1256	LF	7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	40.52	0.88
		<i>For Left Hand Threaded Rod, Add</i>	3.88	
05 05 23 00-1257	LF	1" Diameter, 304/18-8 Stainless Steel Threaded Rod	52.03	1.00
		<i>For Left Hand Threaded Rod, Add</i>	5.00	
05 05 23 00-1258	LF	1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	110.52	1.20
		<i>For Left Hand Threaded Rod, Add</i>	10.80	
05 05 23 00-1259	LF	1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	168.52	1.36
		<i>For Left Hand Threaded Rod, Add</i>	16.58	
05 05 23 00-1260	LF	1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	173.33	1.43
		<i>For Left Hand Threaded Rod, Add</i>	17.05	
05 05 23 00-1261	LF	2" Diameter, 304/18-8 Stainless Steel Threaded Rod	240.05	1.51
		<i>For Left Hand Threaded Rod, Add</i>	23.71	
05 05 23 00-1262 316 Stainless Steel Threaded Rod (05 05 23 00-1199)				
05 05 23 00-1263	LF	1/4" Diameter, 316 Stainless Steel Threaded Rod	6.08	0.60
		<i>For Left Hand Threaded Rod, Add</i>	0.49	
05 05 23 00-1264	LF	5/16" Diameter, 316 Stainless Steel Threaded Rod	9.94	0.66
		<i>For Left Hand Threaded Rod, Add</i>	0.86	
05 05 23 00-1265	LF	3/8" Diameter, 316 Stainless Steel Threaded Rod	13.26	0.76
		<i>For Left Hand Threaded Rod, Add</i>	1.18	
05 05 23 00-1266	LF	7/16" Diameter, 316 Stainless Steel Threaded Rod	20.86	0.78
		<i>For Left Hand Threaded Rod, Add</i>	1.93	
05 05 23 00-1267	LF	1/2" Diameter, 316 Stainless Steel Threaded Rod	22.14	0.81
		<i>For Left Hand Threaded Rod, Add</i>	2.05	
05 05 23 00-1268	LF	9/16" Diameter, 316 Stainless Steel Threaded Rod	29.15	0.82
		<i>For Left Hand Threaded Rod, Add</i>	2.75	
05 05 23 00-1269	LF	5/8" Diameter, 316 Stainless Steel Threaded Rod	31.39	0.83
		<i>For Left Hand Threaded Rod, Add</i>	2.97	
05 05 23 00-1270	LF	3/4" Diameter, 316 Stainless Steel Threaded Rod	45.92	0.85
		<i>For Left Hand Threaded Rod, Add</i>	4.42	
05 05 23 00-1271	LF	7/8" Diameter, 316 Stainless Steel Threaded Rod	63.00	0.88
		<i>For Left Hand Threaded Rod, Add</i>	6.12	
05 05 23 00-1272	LF	1" Diameter, 316 Stainless Steel Threaded Rod	79.77	1.00
		<i>For Left Hand Threaded Rod, Add</i>	7.78	
05 05 23 00-1273	LF	1-1/4" Diameter, 316 Stainless Steel Threaded Rod	168.79	1.20
		<i>For Left Hand Threaded Rod, Add</i>	16.63	
05 05 23 00-1274	LF	1-1/2" Diameter, 316 Stainless Steel Threaded Rod	221.36	1.36
		<i>For Left Hand Threaded Rod, Add</i>	21.86	
05 05 23 00-1275 Plain Finish Steel, B-7 Alloy Threaded Rod (05 05 23 00-1199)				
05 05 23 00-1276	LF	1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	3.56	0.60
		<i>For Zinc Plating, Add</i>	1.18	
05 05 23 00-1277	LF	5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	5.37	0.66
		<i>For Zinc Plating, Add</i>	2.03	
05 05 23 00-1278	LF	3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	5.65	0.76
		<i>For Zinc Plating, Add</i>	2.07	
05 05 23 00-1279	LF	7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	6.14	0.78
		<i>For Zinc Plating, Add</i>	2.30	
05 05 23 00-1280	LF	1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	6.74	0.81
		<i>For Zinc Plating, Add</i>	2.57	
05 05 23 00-1281	LF	9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	8.34	0.82
		<i>For Zinc Plating, Add</i>	3.36	
05 05 23 00-1282	LF	5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	8.60	0.83
		<i>For Zinc Plating, Add</i>	3.47	
05 05 23 00-1283	LF	3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	11.30	0.85
		<i>For Zinc Plating, Add</i>	4.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1284 LF 7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod For Zinc Plating, Add	13.48 5.86	0.88
05 05 23 00-1285 LF 1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod For Zinc Plating, Add	17.42 7.71	1.00
05 05 23 00-1286 LF 1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod For Zinc Plating, Add	22.57 10.18	1.11
05 05 23 00-1287 LF 1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod For Zinc Plating, Add	25.14 11.32	1.20
05 05 23 00-1288 LF 1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod For Zinc Plating, Add	28.95 13.17	1.30
05 05 23 00-1289 LF 1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod For Zinc Plating, Add	35.10 16.19	1.36
05 05 23 00-1290 LF 1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod For Zinc Plating, Add	36.29 16.72	1.43
05 05 23 00-1291 LF 2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod For Zinc Plating, Add	48.52 22.76	1.51
05 05 23 00-1292 Nuts And Washers (05 05 23)		
05 05 23 00-1293 Hex Nuts (05 05 23 00-1292)		
05 05 23 00-1294 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1295 EA 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.80	0.36
05 05 23 00-1296 EA 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.89	0.36
05 05 23 00-1297 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.96	0.36
05 05 23 00-1298 EA 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.11	0.36
05 05 23 00-1299 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.20	0.36
05 05 23 00-1300 EA 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.57	0.36
05 05 23 00-1301 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.62	0.36
05 05 23 00-1302 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.92	0.72
05 05 23 00-1303 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.78	0.72
05 05 23 00-1304 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.53	0.72
05 05 23 00-1305 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.76	0.72
05 05 23 00-1306 EA 1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	7.04	0.72
05 05 23 00-1307 EA 1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	10.33	0.72
05 05 23 00-1308 EA 1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	11.96	1.08
05 05 23 00-1309 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	17.54	1.08
05 05 23 00-1310 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	25.33	1.08
05 05 23 00-1311 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1312 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.83	0.36
05 05 23 00-1313 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.90	0.36
05 05 23 00-1314 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.99	0.36
05 05 23 00-1315 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.15	0.36
05 05 23 00-1316 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.34	0.36
05 05 23 00-1317 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.61	0.36
05 05 23 00-1318 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.65	0.36
05 05 23 00-1319 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	2.17	0.72
05 05 23 00-1320 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	3.03	0.72
05 05 23 00-1321 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	4.27	0.72
05 05 23 00-1322 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	6.50	0.72
05 05 23 00-1323 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	9.17	0.72
05 05 23 00-1324 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	13.45	0.72
05 05 23 00-1325 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	14.85	1.08
05 05 23 00-1326 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	26.76	1.08
05 05 23 00-1327 EA 2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	38.36	1.08
05 05 23 00-1328 Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1329 EA 1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.84	0.36
05 05 23 00-1330 EA 5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.97	0.36
05 05 23 00-1331 EA 3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.05	0.36
05 05 23 00-1332 EA 7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.31	0.36
05 05 23 00-1333 EA 1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.56	0.36
05 05 23 00-1334 EA 9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.86	0.36
05 05 23 00-1335 EA 5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	2.11	0.36
05 05 23 00-1336 EA 3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	2.62	0.72
05 05 23 00-1337 EA 7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	3.89	0.72
05 05 23 00-1338 EA 1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	5.18	0.72
05 05 23 00-1339 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	8.10	0.72
05 05 23 00-1340 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	10.10	0.72
05 05 23 00-1341 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	16.60	0.72
05 05 23 00-1342 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	17.62	1.08
05 05 23 00-1343 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	26.84	1.08
05 05 23 00-1344 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	37.93	1.08
05 05 23 00-1345 Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1346 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.84	0.36
05 05 23 00-1347 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.94	0.36

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1348 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.02	0.36
05 05 23 00-1349 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.28	0.36
05 05 23 00-1350 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.47	0.36
05 05 23 00-1351 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.63	0.36
05 05 23 00-1352 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.79	0.36
05 05 23 00-1353 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.39	0.72
05 05 23 00-1354 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	3.44	0.72
05 05 23 00-1355 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	4.74	0.72
05 05 23 00-1356 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	7.84	0.72
05 05 23 00-1357 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	10.04	0.72
05 05 23 00-1358 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	14.88	0.72
05 05 23 00-1359 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	17.35	1.08
05 05 23 00-1360 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	30.22	1.08
05 05 23 00-1361 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	52.25	1.08
05 05 23 00-1362 304 Stainless Steel Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1363 EA 1/4" Diameter, 304 Stainless Steel Hex Nut	0.96	0.36
05 05 23 00-1364 EA 5/16" Diameter, 304 Stainless Steel Hex Nut	1.13	0.36
05 05 23 00-1365 EA 3/8" Diameter, 304 Stainless Steel Hex Nut	1.28	0.36
05 05 23 00-1366 EA 7/16" Diameter, 304 Stainless Steel Hex Nut	1.92	0.36
05 05 23 00-1367 EA 1/2" Diameter, 304 Stainless Steel Hex Nut	2.08	0.36
05 05 23 00-1368 EA 9/16" Diameter, 304 Stainless Steel Hex Nut	3.18	0.36
05 05 23 00-1369 EA 5/8" Diameter, 304 Stainless Steel Hex Nut	3.55	0.36
05 05 23 00-1370 EA 3/4" Diameter, 304 Stainless Steel Hex Nut	4.09	0.72
05 05 23 00-1371 EA 7/8" Diameter, 304 Stainless Steel Hex Nut	6.73	0.72
05 05 23 00-1372 EA 1" Diameter, 304 Stainless Steel Hex Nut	10.32	0.72
05 05 23 00-1373 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut	24.89	0.72
05 05 23 00-1374 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut	47.91	1.08
05 05 23 00-1375 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut	84.33	1.08
05 05 23 00-1376 EA 2" Diameter, 304 Stainless Steel Hex Nut	120.24	1.08
05 05 23 00-1377 316 Stainless Steel Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1378 EA 1/4" Diameter, 316 Stainless Steel Hex Nut	1.12	0.36
05 05 23 00-1379 EA 5/16" Diameter, 316 Stainless Steel Hex Nut	1.28	0.36
05 05 23 00-1380 EA 3/8" Diameter, 316 Stainless Steel Hex Nut	1.53	0.36
05 05 23 00-1381 EA 7/16" Diameter, 316 Stainless Steel Hex Nut	2.54	0.36
05 05 23 00-1382 EA 1/2" Diameter, 316 Stainless Steel Hex Nut	2.72	0.36
05 05 23 00-1383 EA 9/16" Diameter, 316 Stainless Steel Hex Nut	3.72	0.36
05 05 23 00-1384 EA 5/8" Diameter, 316 Stainless Steel Hex Nut	4.20	0.36
05 05 23 00-1385 EA 3/4" Diameter, 316 Stainless Steel Hex Nut	5.89	0.72
05 05 23 00-1386 EA 7/8" Diameter, 316 Stainless Steel Hex Nut	8.19	0.72
05 05 23 00-1387 EA 1" Diameter, 316 Stainless Steel Hex Nut	12.66	0.72
05 05 23 00-1388 EA 1-1/4" Diameter, 316 Stainless Steel Hex Nut	38.66	0.72
05 05 23 00-1389 EA 1-1/2" Diameter, 316 Stainless Steel Hex Nut	62.58	1.08
05 05 23 00-1390 EA 1-3/4" Diameter, 316 Stainless Steel Hex Nut	105.71	1.08
05 05 23 00-1391 EA 2" Diameter, 316 Stainless Steel Hex Nut	196.62	1.08
05 05 23 00-1392 Flat Washers (05 05 23 00-1292)		
05 05 23 00-1393 Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1392)		
05 05 23 00-1394 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.06	
05 05 23 00-1395 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.09	
05 05 23 00-1396 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.16	
05 05 23 00-1397 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.25	
05 05 23 00-1398 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.35	
05 05 23 00-1399 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.40	
05 05 23 00-1400 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.68	
05 05 23 00-1401 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.98	
05 05 23 00-1402 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.17	
05 05 23 00-1403 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.43	
05 05 23 00-1404 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.62	
05 05 23 00-1405 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.93	
05 05 23 00-1406 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.03	
05 05 23 00-1407 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.11	
05 05 23 00-1408 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	4.60	
05 05 23 00-1409 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	5.72	
05 05 23 00-1410 Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1392)		
05 05 23 00-1411 EA 1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.21	
05 05 23 00-1412 EA 5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.29	
05 05 23 00-1413 EA 3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.33	
05 05 23 00-1414 EA 7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.45	
05 05 23 00-1415 EA 1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.61	
05 05 23 00-1416 EA 9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.98	
05 05 23 00-1417 EA 5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	1.40	
05 05 23 00-1418 EA 3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	1.98	
05 05 23 00-1419 EA 7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	3.30	



		Metals	05	05
		Common Work Results for Metals	05 05	
		Metal Fastenings	05 05 23	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1420	EA	1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	3.66	
05 05 23 00-1421	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	5.33	
05 05 23 00-1422	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	5.81	
05 05 23 00-1423	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	7.67	
05 05 23 00-1424	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	8.77	
05 05 23 00-1425	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	11.79	
05 05 23 00-1426	EA	2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	14.14	
05 05 23 00-1427 Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1392)				
05 05 23 00-1428	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.14	
05 05 23 00-1429	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.20	
05 05 23 00-1430	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.22	
05 05 23 00-1431	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.41	
05 05 23 00-1432	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.53	
05 05 23 00-1433	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.86	
05 05 23 00-1434	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.96	
05 05 23 00-1435	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	1.46	
05 05 23 00-1436	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	2.06	
05 05 23 00-1437	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	2.26	
05 05 23 00-1438	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	3.46	
05 05 23 00-1439	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	3.85	
05 05 23 00-1440	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	5.50	
05 05 23 00-1441	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	5.96	
05 05 23 00-1442	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	8.64	
05 05 23 00-1443 304/18-8 Stainless Steel Flat Washers (05 05 23 00-1392)				
05 05 23 00-1444	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.18	
05 05 23 00-1445	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.24	
05 05 23 00-1446	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.34	
05 05 23 00-1447	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.64	
05 05 23 00-1448	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.16	
05 05 23 00-1449	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.45	
05 05 23 00-1450	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.12	
05 05 23 00-1451	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.16	
05 05 23 00-1452	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.56	
05 05 23 00-1453	EA	1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	5.77	
05 05 23 00-1454	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	6.72	
05 05 23 00-1455	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.24	
05 05 23 00-1456	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.65	
05 05 23 00-1457	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	9.33	
05 05 23 00-1458	EA	1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	11.59	
05 05 23 00-1459	EA	2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	22.77	
05 05 23 00-1460 316 Stainless Steel Flat Washers (05 05 23 00-1392)				
05 05 23 00-1461	EA	1/4" Inside Diameter, 316 Stainless Steel Flat Washer	0.35	
05 05 23 00-1462	EA	5/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.39	
05 05 23 00-1463	EA	3/8" Inside Diameter, 316 Stainless Steel Flat Washer	0.69	
05 05 23 00-1464	EA	7/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.81	
05 05 23 00-1465	EA	1/2" Inside Diameter, 316 Stainless Steel Flat Washer	1.50	
05 05 23 00-1466	EA	9/16" Inside Diameter, 316 Stainless Steel Flat Washer	2.70	
05 05 23 00-1467	EA	5/8" Inside Diameter, 316 Stainless Steel Flat Washer	3.19	
05 05 23 00-1468	EA	3/4" Inside Diameter, 316 Stainless Steel Flat Washer	4.02	
05 05 23 00-1469	EA	7/8" Inside Diameter, 316 Stainless Steel Flat Washer	6.22	
05 05 23 00-1470	EA	1" Inside Diameter, 316 Stainless Steel Flat Washer	6.95	
05 05 23 00-1471	EA	1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer	7.92	
05 05 23 00-1472	EA	1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer	9.75	
05 05 23 00-1473	EA	1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer	10.31	
05 05 23 00-1474	EA	1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer	10.54	
05 05 23 00-1475	EA	1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer	15.45	
05 05 23 00-1476 Lock Washers (05 05 23 00-1292)				
05 05 23 00-1477 Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1476)				
05 05 23 00-1478	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.02	
05 05 23 00-1479	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.04	
05 05 23 00-1480	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.06	
05 05 23 00-1481	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.10	
05 05 23 00-1482	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.14	
05 05 23 00-1483	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.23	
05 05 23 00-1484	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.25	
05 05 23 00-1485	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.39	
05 05 23 00-1486	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.65	
05 05 23 00-1487	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.17	
05 05 23 00-1488	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.71	
05 05 23 00-1489	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.62	
05 05 23 00-1490	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.15	
05 05 23 00-1491	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.89	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1492	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	8.72	
05 05 23 00-1493	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	9.82	
05 05 23 00-1494		Hot Dipped Galvanized Steel Lock Washers (05 05 23 00-1476)		
05 05 23 00-1495	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.11	
05 05 23 00-1496	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.13	
05 05 23 00-1497	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.17	
05 05 23 00-1498	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.18	
05 05 23 00-1499	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.29	
05 05 23 00-1500	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.38	
05 05 23 00-1501	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.45	
05 05 23 00-1502	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.75	
05 05 23 00-1503	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.08	
05 05 23 00-1504	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.71	
05 05 23 00-1505	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.10	
05 05 23 00-1506	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.69	
05 05 23 00-1507	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.33	
05 05 23 00-1508	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	6.10	
05 05 23 00-1509	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	8.25	
05 05 23 00-1510	EA	2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	11.24	
05 05 23 00-1511		304/18-8 Stainless Steel Lock Washers (05 05 23 00-1476)		
05 05 23 00-1512	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.15	
05 05 23 00-1513	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.21	
05 05 23 00-1514	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.30	
05 05 23 00-1515	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.56	
05 05 23 00-1516	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.61	
05 05 23 00-1517	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.49	
05 05 23 00-1518	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.76	
05 05 23 00-1519	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.05	
05 05 23 00-1520	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	3.71	
05 05 23 00-1521	EA	1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	5.23	
05 05 23 00-1522	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	9.13	
05 05 23 00-1523	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	12.15	
05 05 23 00-1524	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	15.45	
05 05 23 00-1525	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	18.54	
05 05 23 00-1526		316 Stainless Steel Lock Washers (05 05 23 00-1476)		
05 05 23 00-1527	EA	1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.18	
05 05 23 00-1528	EA	5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.40	
05 05 23 00-1529	EA	3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.47	
05 05 23 00-1530	EA	7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.80	
05 05 23 00-1531	EA	1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.89	
05 05 23 00-1532	EA	9/16" Inside Diameter, 316 Stainless Steel Lock Washer	1.59	
05 05 23 00-1533	EA	5/8" Inside Diameter, 316 Stainless Steel Lock Washer	1.74	
05 05 23 00-1534	EA	3/4" Inside Diameter, 316 Stainless Steel Lock Washer	3.01	
05 05 23 00-1535	EA	7/8" Inside Diameter, 316 Stainless Steel Lock Washer	4.98	
05 05 23 00-1536	EA	1" Inside Diameter, 316 Stainless Steel Lock Washer	6.78	
05 05 23 00-1537	EA	1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	9.46	
05 05 23 00-1538	EA	1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	14.56	
05 05 23 00-1539	EA	1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	26.07	
05 05 23 00-1540	EA	1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	28.95	
05 05 23 00-1541		Load Indicating Washers (05 05 23 00-1292)		
05 05 23 00-1542		A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1541)		
05 05 23 00-1543		Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1542)		
05 05 23 00-1544	EA	1/2", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	2.84	
05 05 23 00-1545	EA	5/8", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.22	
05 05 23 00-1546	EA	3/4", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.47	
05 05 23 00-1547	EA	7/8", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.94	
05 05 23 00-1548	EA	1", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	4.76	
05 05 23 00-1549	EA	1-1/8", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	7.92	
05 05 23 00-1550	EA	1-1/4", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	10.23	
05 05 23 00-1551	EA	1-3/8", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	13.06	
05 05 23 00-1552	EA	1-1/2", Plain Finish, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	14.36	
05 05 23 00-1553		Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1542)		
05 05 23 00-1554	EA	1/2", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.60	
05 05 23 00-1555	EA	5/8", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	4.01	
05 05 23 00-1556	EA	3/4", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	3.90	
05 05 23 00-1557	EA	7/8", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	4.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1558 EA 1", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	5.64	
05 05 23 00-1559 EA 1-1/8", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	8.50	
05 05 23 00-1560 EA 1-1/4", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	10.70	
05 05 23 00-1561 EA 1-3/8", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	15.23	
05 05 23 00-1562 EA 1-1/2", Galvanized, (ASTM F959) A325, Direct Tension Indicator, Load Indicating Washer	16.75	
05 05 23 00-1563 Beveled Washers (05 05 23 00-1292)		
05 05 23 00-1564 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1563)		
05 05 23 00-1565 EA 1/2", Plain Finish, (ASTM F436) Square Beveled Structural Washer	4.70	
05 05 23 00-1566 EA 5/8", Plain Finish, (ASTM F436) Square Beveled Structural Washer	4.79	
05 05 23 00-1567 EA 3/4", Plain Finish, (ASTM F436) Square Beveled Structural Washer	4.90	
05 05 23 00-1568 EA 7/8", Plain Finish, (ASTM F436) Square Beveled Structural Washer	5.96	
05 05 23 00-1569 EA 1", Plain Finish, (ASTM F436) Square Beveled Structural Washer	6.27	
05 05 23 00-1570 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1563)		
05 05 23 00-1571 EA 1/2", Galvanized, (ASTM F436) Square Beveled Structural Washer	6.76	
05 05 23 00-1572 EA 5/8", Galvanized, (ASTM F436) Square Beveled Structural Washer	7.06	
05 05 23 00-1573 EA 3/4", Galvanized, (ASTM F436) Square Beveled Structural Washer	7.06	
05 05 23 00-1574 EA 7/8", Galvanized, (ASTM F436) Square Beveled Structural Washer	7.46	
05 05 23 00-1575 EA 1", Galvanized, (ASTM F436) Square Beveled Structural Washer	7.94	
05 05 23 00-1576 Welded Stud Anchors (05 05 23)		
05 05 23 00-1577 EA 1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors	4.70	
05 05 23 00-1578 EA 2-11/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors	4.80	
05 05 23 00-1579 EA 3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors	4.84	
05 05 23 00-1580 EA 4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors	4.88	
05 05 23 00-1581 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	4.63	
05 05 23 00-1582 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	4.88	
05 05 23 00-1583 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	5.12	
05 05 23 00-1584 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	5.25	
05 05 23 00-1585 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	5.38	
05 05 23 00-1586 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	5.89	
05 05 23 00-1587 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	6.31	
05 05 23 00-1588 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors	6.64	
05 05 23 00-1589 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors	5.68	
05 05 23 00-1590 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	5.71	
05 05 23 00-1591 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	6.10	
05 05 23 00-1592 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	6.46	
05 05 23 00-1593 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	6.90	
05 05 23 00-1594 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	7.60	
05 05 23 00-1595 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors	8.04	
05 05 23 00-1596 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	9.26	
05 05 23 00-1597 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors	11.57	
05 05 23 00-1598 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	8.06	
05 05 23 00-1599 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	8.65	
05 05 23 00-1600 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	9.12	
05 05 23 00-1601 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	9.59	
05 05 23 00-1602 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	9.98	
05 05 23 00-1603 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	10.34	
05 05 23 00-1604 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	10.81	
05 05 23 00-1605 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	12.78	
05 05 23 00-1606 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors	15.50	
05 05 23 00-1607 Welded Shear Stud Connector (05 05 23)		
05 05 23 00-1608 3/4" Diameter Welded Shear Stud Connector (05 05 23 00-1607)		
05 05 23 00-1609 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector	10.33	
05 05 23 00-1610 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector	10.75	
05 05 23 00-1611 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector	10.86	
05 05 23 00-1612 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector	10.91	
05 05 23 00-1613 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector	11.38	
05 05 23 00-1614 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector	12.24	
05 05 23 00-1615 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector	20.60	
05 05 23 00-1616 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector	13.24	
05 05 23 00-1617 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector	14.77	
05 05 23 00-1618 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector	19.34	
05 05 23 00-1619 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector	19.81	
05 05 23 00-1620 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector	21.48	
05 05 23 00-1621 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector	28.47	
05 05 23 00-1622 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1607)		
05 05 23 00-1623 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector	12.41	
05 05 23 00-1624 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector	13.08	
05 05 23 00-1625 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector	13.74	
05 05 23 00-1626 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector	15.66	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1627	EA	7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector	20.37	
05 05 23 00-1628	EA	7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector	22.39	
05 05 23 00-1629	EA	7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector	24.39	
05 05 23 00-1630	EA	7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector	30.00	
05 05 23 00-1631		1" Diameter Welded Shear Stud Connector (05 05 23 00-1607)		
05 05 23 00-1632	EA	1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	16.77	
05 05 23 00-1633	EA	1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	18.82	
05 05 23 00-1634	EA	1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	21.85	
05 05 23 00-1635	EA	1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	27.94	
05 05 23 00-1636	EA	1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	31.11	
05 05 23 00-1637	EA	1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	34.27	

05 10 Structural Metal Framing (05)**05 12 Structural Steel Framing (05 10)****05 12 23 Structural Steel for Buildings (05 12)**

See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0131 for field fabrication of additional structural metal connections.

05 12 23 00-0001 Rolled Steel Members (05 12 23)

Note: Prices by Ton (or Lb.) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0131 for field fabrication of additional structural metal connections.

05 12 23 00-0002 Beams, Girders And Columns (05 12 23 00-0001)

Note: For one and two story I beams and W shapes and HP shapes.

05 12 23 00-0003	TON	Up To 30 Lb./LF Beams, Girders And Columns.....	11,482.94	1,451.73
		For ASTM A242 Type 2 High Strength Steel, Add	678.37	
		For Hot Dip Galvanizing, Add	2,374.29	
		For >10 To 25 Tons, Deduct	-720.77	
		For >25 To 50 Tons, Deduct	-1,483.93	
		For >50 To 75 Tons, Deduct	-2,119.90	
		For >75 Tons, Deduct	-1,059.95	
05 12 23 00-0004	TON	>30-65 Lb./LF Beams, Girders And Columns.....	7,960.40	938.45
		For ASTM A242 Type 2 High Strength Steel, Add	556.74	
		For Hot Dip Galvanizing, Add	1,948.60	
		For >10 To 25 Tons, Deduct	-591.54	
		For >25 To 50 Tons, Deduct	-1,217.88	
		For >50 To 75 Tons, Deduct	-1,739.82	
		For >75 Tons, Deduct	-869.91	
05 12 23 00-0005	TON	>65-100 Lb./LF Beams, Girders And Columns.....	6,741.47	527.93
		For ASTM A242 Type 2 High Strength Steel, Add	494.27	
		For Hot Dip Galvanizing, Add	1,729.94	
		For >10 To 25 Tons, Deduct	-525.16	
		For >25 To 50 Tons, Deduct	-1,081.21	
		For >50 To 75 Tons, Deduct	-1,544.59	
		For >75 Tons, Deduct	-772.29	
05 12 23 00-0006	TON	>100-300 Lb./LF Beams, Girders And Columns.....	4,523.95	281.00
		For ASTM A242 Type 2 High Strength Steel, Add	337.89	
		For Hot Dip Galvanizing, Add	1,182.61	
		For >10 To 25 Tons, Deduct	-359.01	
		For >25 To 50 Tons, Deduct	-739.13	
		For >50 To 75 Tons, Deduct	-1,055.91	
		For >75 Tons, Deduct	-527.95	

05 12 23 00-0007 Trusses, Built-Up (05 12 23 00-0001)

05 12 23 00-0008	TON	Built-Up Trusses, Rolled Structural Steel Members.....	8,446.23	987.30
		For ASTM A242 Type 2 High Strength Steel, Add	591.49	
		For Hot Dip Galvanizing, Add	2,070.22	
		For >10 To 25 Tons, Deduct	-628.46	
		For >25 To 50 Tons, Deduct	-1,293.89	
		For >50 To 75 Tons, Deduct	-1,848.42	
		For >75 Tons, Deduct	-924.21	

05 12 23 00-0009 Shapes (05 12 23 00-0001)**05 12 23 00-0010 Rolled Shape Steel Angles (05 12 23 00-0009)**

05 12 23 00-0011	TON	Up To 10 Lb./LF Rolled Shape Steel Angles.....	16,743.70	2,698.77
		For ASTM A242 Type 2 High Strength Steel, Add	979.66	
		For Hot Dip Galvanizing, Add	3,428.81	
		For >10 To 25 Tons, Deduct	-1,040.89	
		For >25 To 50 Tons, Deduct	-2,143.00	
		For >50 To 75 Tons, Deduct	-3,061.44	
		For >75 Tons, Deduct	-1,530.72	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0012 TON >10 To 20 Lb./LF Rolled Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	14,717.65 937.15 3,280.01 -995.72 -2,050.01 -2,928.58 -1,464.29	1,583.79
05 12 23 00-0013 TON >20 To 58 Lb./LF Rolled Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	11,305.86 824.39 2,885.37 -875.92 -1,803.36 -2,576.23 -1,288.11	938.45
05 12 23 00-0014 Rolled C, MC Steel Channels (05 12 23 00-0009)		
05 12 23 00-0015 TON Up To 10 Lb./LF Rolled C, MC Steel Channels..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	18,249.08 964.87 3,377.05 -1,025.18 -2,110.66 -3,015.23 -1,507.61	3,695.51
05 12 23 00-0016 TON >10 To 20 Rolled C, MC Steel Channels..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	14,555.92 924.21 3,234.73 -981.97 -2,021.70 -2,888.15 -1,444.07	2,815.62
05 12 23 00-0017 TON >20 To 58 Lb./LF Rolled C, MC Steel Channels..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	11,121.02 809.61 2,833.62 -860.21 -1,771.01 -2,530.02 -1,265.01	938.45
05 12 23 00-0018 Double L Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0019 TON Up To 20 Lb./LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	15,531.94 942.69 3,299.42 -1,001.61 -2,062.14 -2,945.91 -1,472.96	2,141.28
05 12 23 00-0020 TON >20 To 50 Lb./LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,091.43 887.24 3,105.33 -942.69 -1,940.83 -2,772.62 -1,386.31	938.45
05 12 23 00-0021 TON >50 To 80 Lb./LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	9,112.05 683.91 2,393.70 -726.66 -1,496.06 -2,137.23 -1,068.62	527.93
05 12 23 00-0022 TON >80 To 115 Lb./LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	5,845.11 443.62 1,552.67 -471.35 -970.42 -1,386.31 -693.16	281.42
05 12 23 00-0023 Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)		
05 12 23 00-0024 TON Up To 30 Lb./LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	14,093.81 887.24 3,105.33 -942.69 -1,940.83 -2,772.62 -1,386.31	1,583.79
05 12 23 00-0025 TON >30 To 65 Lb./LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	9,480.71 678.37 2,374.29 -720.77 -1,483.93 -2,119.90 -1,059.95	938.45

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0026	TON	>65 To 100 Lb./LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	7,494.68 554.52 1,940.83 -589.18 -1,213.02 -1,732.89 -866.44	527.93
05 12 23 00-0027	TON	>100 To 365 Lb./LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	5,522.10 417.74 1,462.10 -443.85 -913.81 -1,305.44 -652.72	281.00
05 12 23 00-0028		Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029		Combination Section, W Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0030	TON	Up To 30 Lb./LF Combination Section - W Shapes And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	13,377.55 829.94 2,904.78 -881.81 -1,815.49 -2,593.56 -1,296.78	1,583.79
05 12 23 00-0031	TON	>30-65 Lb./LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	9,550.04 683.91 2,393.70 -726.66 -1,496.06 -2,137.23 -1,068.62	938.45
05 12 23 00-0032	TON	>65-100 Lb./LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	6,917.05 508.31 1,779.10 -540.08 -1,111.94 -1,588.48 -794.24	527.93
05 12 23 00-0033	TON	>100-300 Lb./LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	5,983.75 454.71 1,591.49 -483.13 -994.68 -1,420.97 -710.49	281.00
05 12 23 00-0034	TON	>300-500 Lb./LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	5,164.00 401.11 1,403.88 -426.18 -877.42 -1,253.46 -626.73	141.06
05 12 23 00-0035		Combination Section, S Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0036	TON	>30-65 Lb./LF Combination Section - S Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	9,180.34 654.34 2,290.18 -695.23 -1,431.37 -2,044.81 -1,022.40	938.45
05 12 23 00-0037	TON	>65-100 Lb./LF Combination Section - S Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	6,940.16 510.16 1,785.57 -542.05 -1,115.98 -1,594.26 -797.13	527.93
05 12 23 00-0038		Combination Section, Channels And Angles (05 12 23 00-0028)		
05 12 23 00-0039	TON	Up To 30 Lb./LF Combination Section - Channels And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	14,093.81 887.24 3,105.33 -942.69 -1,940.83 -2,772.62 -1,386.31	1,583.79



			Metals	05	05
			Structural Metal Framing	05 10	
			Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0040 TON >30-65 Lb./LF Combination Section - Channels And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,012.13 720.88 2,523.09 -765.94 -1,576.93 -2,252.76 -1,126.38	938.45
05 12 23 00-0041 TON >65-100 Lb./LF Combination Section - Channels And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	7,101.89 523.10 1,830.85 -555.79 -1,144.28 -1,634.69 -817.35	527.93
05 12 23 00-0042 Standard Weight Pipe (05 12 23 00-0001)		
05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	8,109.81 576.71 2,018.47 -612.75 -1,261.54 -1,802.21 -901.10	844.68
05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	8,658.54 602.58 2,109.04 -640.24 -1,318.15 -1,883.07 -941.54	1,055.85
05 12 23 00-0045 Temporary Steel Support For Structures (05 12 23 00-0001) Note: Includes removal after use.		
05 12 23 00-0046 TON Up To 30 Lb./LF Temporary Steel Support For Structures Note: For all stock sections.	11,482.94	
05 12 23 00-0047 TON >30 Lb./LF Temporary Steel Support For Structures..... Note: For all stock sections.	7,960.40	
05 12 23 00-0048 Structural Steel Shapes (05 12 23) Note: Prices by Ton (or Lb.) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0131 for field fabrication of additional structural metal connections.		
05 12 23 00-0049 Steel Rods (05 12 23 00-0048)		
05 12 23 00-0050 TON 1/2" To 5" Diameter Extra Strong Steel, Solid..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	8,744.51 643.25 2,251.37 -683.45 -1,407.11 -2,010.15 -1,005.08	659.99
05 12 23 00-0051 TON >5" To 12" Diameter Extra Strong Steel, Solid For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,012.13 720.88 2,523.09 -765.94 -1,576.93 -2,252.76 -1,126.38	938.45
05 12 23 00-0052 Column Base Plates (05 12 23 00-0048)		
05 12 23 00-0053 LB Column Base Plates, Up To 150 Lb. / Each, A36 Miscellaneous Steel Items..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4.36 0.28 0.97	0.84
05 12 23 00-0054 LB Column Base Plates, >150 Lb. / Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4.09 0.26 0.92	0.72
05 12 23 00-0055 TON Column Base Plates, Up To 150 Lb. Each, A36 Miscellaneous Steel Items..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	7,948.40 571.78 2,001.24 -607.52 -1,250.78 -1,786.83 -893.41	751.04
05 12 23 00-0056 TON Column Base Plates, >150 Lb. Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	5,650.21 413.56 1,447.47 -439.41 -904.67 -1,292.39 -646.19	450.62

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0057		Double Extra Strong Pipes (05 12 23 00-0048)		
05 12 23 00-0058	TON	2" To 5" Diameter Double Extra Strong Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,483.00 735.67 2,574.84 -781.65 -1,609.28 -2,298.97 -1,149.48	1,206.64
05 12 23 00-0059	TON	>5" To 8" Diameter Double Extra Strong Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	9,888.94 735.67 2,574.84 -781.65 -1,609.28 -2,298.97 -1,149.48	649.71
05 12 23 00-0060		Structural Pipes (05 12 23 00-0048)		
05 12 23 00-0061	TON	3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	7,327.21 517.56 1,811.45 -549.90 -1,132.15 -1,617.36 -808.68	557.50
05 12 23 00-0062	TON	>5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	7,887.90 517.56 1,811.45 -549.90 -1,132.15 -1,617.36 -808.68	642.95
05 12 23 00-0063		Structural Tubing (05 12 23 00-0048)		
05 12 23 00-0064		Rectangle Structural Tubing (05 12 23 00-0063)		
05 12 23 00-0065	TON	3" x 2" Weight Range 5-7 Lb./LF Structural Tubing - Rectangle..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,153.26 924.21 3,234.73 -981.97 -2,021.70 -2,888.15 -1,444.07	563.13
05 12 23 00-0066	TON	4" x 3", 2" Weight Range 6-13 Lb./LF Structural Tubing - Rectangle..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,245.67 924.21 3,234.73 -981.97 -2,021.70 -2,888.15 -1,444.07	649.71
05 12 23 00-0067	TON	5" x 4", 3", 2" Weight Range 8-20 Lb./LF Structural Tubing - Rectangle..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,686.06 794.82 2,781.86 -844.49 -1,738.67 -2,483.81 -1,241.90	703.91
05 12 23 00-0068	TON	6" x 4", 3", 2" Weight Range 9-29 Lb./LF Structural Tubing - Rectangle..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,143.06 739.37 2,587.78 -785.58 -1,617.36 -2,310.52 -1,155.26	844.68
05 12 23 00-0069	TON	7" x 5", 4", 3" Weight Range 12-35 Lb./LF Structural Tubing - Rectangle..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	9,973.01 717.75 2,512.13 -762.61 -1,570.08 -2,242.98 -1,121.49	938.45
05 12 23 00-0070	TON	8" x 6", 4", 3", 2" Weight Range 11-42 Lb./LF Structural Tubing - Rectangle For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,145.71 700.83 2,452.91 -744.63 -1,533.07 -2,190.10 -1,095.05	1,298.70



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0071 TON 10" x 6", 4", 2" Weight Range 15-50 Lb./LF Structural Tubing - Rectangle For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,565.06 698.70 2,445.45 -742.37 -1,528.41 -2,183.44 -1,091.72	1,716.82
05 12 23 00-0072 TON 12" x 6", 4", 2" Weight Range 17-76 Lb./LF Structural Tubing - Rectangle For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,826.62 706.09 2,471.33 -750.23 -1,544.58 -2,206.55 -1,103.27	1,875.35
05 12 23 00-0073 TON 14" x 10", 6", 4" Weight Range 29-76 Lb./LF Structural Tubing - Rectangle..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	11,078.68 706.09 2,471.33 -750.23 -1,544.58 -2,206.55 -1,103.27	2,111.72
05 12 23 00-0074 TON 16" x 12", 8", 4" Weight Range 40-90 Lb./LF Structural Tubing - Rectangle..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	11,737.08 698.70 2,445.45 -742.37 -1,528.41 -2,183.44 -1,091.72	2,815.62
05 12 23 00-0075 TON 18" x 6", 4" Weight Range 48-76 Lb./LF Structural Tubing - Rectangle..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	13,234.84 680.22 2,380.76 -722.73 -1,487.97 -2,125.68 -1,062.84	4,436.44
05 12 23 00-0076 TON 20" x 12", 8", 4" Weight Range 48-105 Lb./LF Structural Tubing - Rectangle..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	15,028.35 649.51 2,273.28 -690.10 -1,420.80 -2,029.71 -1,014.86	6,477.76
05 12 23 00-0077 Square Structural Tubing (05 12 23 00-0063)		
05 12 23 00-0078 TON 2" x 2" Weight Range 4-6 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,115.72 924.21 3,234.73 -981.97 -2,021.70 -2,888.15 -1,444.07	527.93
05 12 23 00-0079 TON 2.5" x 2.5" Weight Range 5-8 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,153.26 924.21 3,234.73 -981.97 -2,021.70 -2,888.15 -1,444.07	563.13
05 12 23 00-0080 TON 3" x 3" Weight Range 6-11 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,917.11 813.30 2,846.56 -864.13 -1,779.10 -2,541.57 -1,270.79	703.91
05 12 23 00-0081 TON 3.5" x 3.5" Weight Range 8-13 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	10,836.22 794.82 2,781.86 -844.49 -1,738.67 -2,483.81 -1,241.90	844.68
05 12 23 00-0082 TON 4" x 4" Weight Range 10-22 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	8,704.75 606.28 2,121.98 -644.17 -1,326.24 -1,894.63 -947.31	1,055.85
05 12 23 00-0083 TON 5" x 5" Weight Range 12-30 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	8,865.64 606.28 2,121.98 -644.17 -1,326.24 -1,894.63 -947.31	1,206.64

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0084 TON 6" x 6" Weight Range 15-35 Lb./LF Structural Tubing - Square.....	9,380.50	1,689.38
For ASTM A242 Type 2 High Strength Steel, Add	606.28	
For Hot Dip Galvanizing, Add	2,121.98	
For >10 To 25 Tons, Deduct	-644.17	
For >25 To 50 Tons, Deduct	-1,326.24	
For >50 To 75 Tons, Deduct	-1,894.63	
For >75 Tons, Deduct	-947.31	
05 12 23 00-0085 TON 7" x 7" Weight Range 17-42 Lb./LF Structural Tubing - Square.....	9,969.63	2,111.72
For ASTM A242 Type 2 High Strength Steel, Add	617.37	
For Hot Dip Galvanizing, Add	2,160.80	
For >10 To 25 Tons, Deduct	-655.96	
For >25 To 50 Tons, Deduct	-1,350.50	
For >50 To 75 Tons, Deduct	-1,929.28	
For >75 Tons, Deduct	-964.64	
05 12 23 00-0086 TON 8" x 8" Weight Range 20-60 Lb./LF Structural Tubing - Square.....	11,968.14	2,815.62
For ASTM A242 Type 2 High Strength Steel, Add	717.18	
For Hot Dip Galvanizing, Add	2,510.15	
For >10 To 25 Tons, Deduct	-762.01	
For >25 To 50 Tons, Deduct	-1,568.84	
For >50 To 75 Tons, Deduct	-2,241.20	
For >75 Tons, Deduct	-1,120.60	
05 12 23 00-0087 TON 10" x 10" Weight Range 33-77 Lb./LF Structural Tubing - Square.....	13,469.80	4,223.44
For ASTM A242 Type 2 High Strength Steel, Add	717.18	
For Hot Dip Galvanizing, Add	2,510.15	
For >10 To 25 Tons, Deduct	-762.01	
For >25 To 50 Tons, Deduct	-1,568.84	
For >50 To 75 Tons, Deduct	-2,241.20	
For >75 Tons, Deduct	-1,120.60	
05 12 23 00-0088 TON 12" x 12" Weight Range 40-80 Lb./LF Structural Tubing - Square.....	13,004.68	4,957.05
For ASTM A242 Type 2 High Strength Steel, Add	617.37	
For Hot Dip Galvanizing, Add	2,160.80	
For >10 To 25 Tons, Deduct	-655.96	
For >25 To 50 Tons, Deduct	-1,350.50	
For >50 To 75 Tons, Deduct	-1,929.28	
For >75 Tons, Deduct	-964.64	
05 12 23 00-0089 TON 14" x 14" Weight Range 57-90 Lb./LF Structural Tubing - Square.....	15,689.47	6,477.76
For ASTM A242 Type 2 High Strength Steel, Add	702.40	
For Hot Dip Galvanizing, Add	2,458.39	
For >10 To 25 Tons, Deduct	-746.30	
For >25 To 50 Tons, Deduct	-1,536.49	
For >50 To 75 Tons, Deduct	-2,194.99	
For >75 Tons, Deduct	-1,097.50	
05 12 23 00-0090 TON 16" x 16" Weight Range 65-105 Lb./LF Structural Tubing - Square.....	17,974.80	8,446.87
For ASTM A242 Type 2 High Strength Steel, Add	717.18	
For Hot Dip Galvanizing, Add	2,510.15	
For >10 To 25 Tons, Deduct	-762.01	
For >25 To 50 Tons, Deduct	-1,568.84	
For >50 To 75 Tons, Deduct	-2,241.20	
For >75 Tons, Deduct	-1,120.60	
05 12 23 00-0091 Galvanized Steel Pipe Tubing (05 12 23 00-0063)		
Note: ASTM A53 Grade B		
05 12 23 00-0092 LF 2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	45.78	6.14
05 12 23 00-0093 LF 2-1/2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	50.42	7.31
05 12 23 00-0094 LF 3" Diameter Galvanized Steel Pipe Tubing, Standard Weight	56.38	9.70
05 12 23 00-0095 LF 3-1/2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	60.91	10.81
05 12 23 00-0096 LF 4" Diameter Galvanized Steel Pipe Tubing, Standard Weight	63.82	11.69
05 12 23 00-0097 LF 5" Diameter Galvanized Steel Pipe Tubing, Standard Weight	71.96	14.61
05 12 23 00-0098 LF 6" Diameter Galvanized Steel Pipe Tubing, Standard Weight	80.13	17.54
05 12 23 00-0099 LF 8" Diameter Galvanized Steel Pipe Tubing, Standard Weight	88.30	21.04
05 12 23 00-0100 LF 10" Diameter Galvanized Steel Pipe Tubing, Standard Weight	99.96	25.72
05 12 23 00-0101 LF 12" Diameter Galvanized Steel Pipe Tubing, Standard Weight	118.64	32.74
05 12 23 00-0102 Structural Shapes (05 12 23 00-0048)		
05 12 23 00-0103 TON Up To 20 Lb./LF Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts.....	9,243.23	3,004.12
For ASTM A242 Type 2 High Strength Steel, Add	357.98	
For Hot Dip Galvanizing, Add	1,252.94	
For >20 To 50 Lb./LF, Deduct	-1,162.75	
For >50 To 75 Lb./LF, Deduct	-1,863.33	
For >75 To 100 Lb./LF, Deduct	-2,563.91	
For >10 To 25 Tons, Deduct	-380.36	
For >25 To 50 Tons, Deduct	-783.09	
For >50 To 75 Tons, Deduct	-1,118.70	
For >75 Tons, Deduct	-559.35	
05 12 23 00-0104 TON Structural Shapes, Steel Plate A36 Structural Steel	8,991.76	1,201.65
Note: Up to 21.5 Lb. per SF		
For ASTM A242 Type 2 High Strength Steel, Add	591.51	
For Hot Dip Galvanizing, Add	2,070.27	
For >21.5 To 50 Lb./LF, Deduct	-979.07	
For >10 To 25 Tons, Deduct	-628.47	
For >25 To 50 Tons, Deduct	-1,293.92	
For >50 To 75 Tons, Deduct	-1,848.46	
For >75 Tons, Deduct	-924.23	
05 12 23 00-0105 LB Up To 20 Lb./LF Structural Shapes, Primed Pipe Supports.....	5.24	0.27



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0106 LB Structural Shapes, Galvanized Pipe Supports.....	6.39	0.27
05 12 23 00-0107 Built-Up Trusses (05 12 23 00-0048)		
05 12 23 00-0108 TON Up To 50 LF Span Average Weight 100 Lb./LF Trusses, Built-up	9,854.31	422.34
For >10 To 25 Tons, Deduct	-799.32	
For >25 To 50 Tons, Deduct	-1,645.67	
For >50 To 75 Tons, Deduct	-2,350.95	
For >75 Tons, Deduct	-1,175.48	
05 12 23 00-0109 TON >50-100 LF Span Average Weight 120 Lb./LF Trusses, Built-up.....	9,746.51	234.54
For >10 To 25 Tons, Deduct	-807.18	
For >25 To 50 Tons, Deduct	-1,661.84	
For >50 To 75 Tons, Deduct	-2,374.06	
For >75 Tons, Deduct	-1,187.03	
05 12 23 00-0110 TON >100-200 LF Span Average Weight 150 Lb./LF Trusses, Built-up.....	8,681.42	124.17
For >10 To 25 Tons, Deduct	-726.66	
For >25 To 50 Tons, Deduct	-1,496.06	
For >50 To 75 Tons, Deduct	-2,137.23	
For >75 Tons, Deduct	-1,068.62	
05 12 23 00-0111 TON >200 LF Span Average Weight 180 Lb./LF Trusses, Built-up.....	8,443.00	117.41
For >10 To 25 Tons, Deduct	-707.02	
For >25 To 50 Tons, Deduct	-1,455.63	
For >50 To 75 Tons, Deduct	-2,079.47	
For >75 Tons, Deduct	-1,039.73	
05 12 23 00-0112 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0048)		
Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0113 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	32.65	8.66
05 12 23 00-0114 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	48.97	12.94
05 12 23 00-0115 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	65.29	17.25
05 12 23 00-0116 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	81.61	21.57
05 12 23 00-0117 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	97.93	25.75
05 12 23 00-0118 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	114.26	30.18
05 12 23 00-0119 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	130.57	34.50
05 12 23 00-0120 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	146.89	38.81
05 12 23 00-0121 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	163.23	43.12
05 12 23 00-0122 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	179.54	47.44
05 12 23 00-0123 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	195.87	51.75
05 12 23 00-0124 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	212.18	56.06
05 12 23 00-0125 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	228.51	60.38
05 12 23 00-0126 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	244.83	64.69
05 12 23 00-0127 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	261.15	69.00
05 12 23 00-0128 Accessories For Steel (05 12 23)		
05 12 23 00-0129 Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0128)		
05 12 23 00-0130 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	1.53	
05 12 23 00-0131 Connection And Stiffener Plates (05 12 23 00-0128)		
Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0132 TON 1/8" Plate Weight 6.16 Lb./SF Connection And Stiffener Plates.....	21,345.21	
For >10 To 25 Tons, Deduct	-1,814.34	
For >25 To 50 Tons, Deduct	-3,735.41	
For >50 To 75 Tons, Deduct	-5,336.30	
For >75 Tons, Deduct	-2,668.15	
05 12 23 00-0133 TON 3/16" Plate Weight 8.71 Lb./SF Connection And Stiffener Plates.....	18,211.64	
For >10 To 25 Tons, Deduct	-1,547.99	
For >25 To 50 Tons, Deduct	-3,187.04	
For >50 To 75 Tons, Deduct	-4,552.91	
For >75 Tons, Deduct	-2,276.46	
05 12 23 00-0134 TON 1/4" Plate Weight 11.26 Lb./SF Connection And Stiffener Plates.....	14,083.44	
For >10 To 25 Tons, Deduct	-1,197.09	
For >25 To 50 Tons, Deduct	-2,464.60	
For >50 To 75 Tons, Deduct	-3,520.86	
For >75 Tons, Deduct	-1,760.43	
05 12 23 00-0135 TON 5/16" Plate Weight 13.81 Lb./SF Connection And Stiffener Plates.....	14,083.44	
For >10 To 25 Tons, Deduct	-1,197.09	
For >25 To 50 Tons, Deduct	-2,464.60	
For >50 To 75 Tons, Deduct	-3,520.86	
For >75 Tons, Deduct	-1,760.43	
05 12 23 00-0136 TON 3/8" Plate Weight 16.37 Lb./SF Connection And Stiffener Plates.....	14,083.44	
For >10 To 25 Tons, Deduct	-1,197.09	
For >25 To 50 Tons, Deduct	-2,464.60	
For >50 To 75 Tons, Deduct	-3,520.86	
For >75 Tons, Deduct	-1,760.43	
05 12 23 00-0137 TON 1/2" Plate Weight 21.47 Lb./SF Connection And Stiffener Plates.....	14,083.44	
For >10 To 25 Tons, Deduct	-1,197.09	
For >25 To 50 Tons, Deduct	-2,464.60	
For >50 To 75 Tons, Deduct	-3,520.86	
For >75 Tons, Deduct	-1,760.43	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0138 TON 9/16" Plate Weight 24.02 Lb./SF Connection And Stiffener Plates	14,083.44	
For >10 To 25 Tons, Deduct	-1,197.09	
For >25 To 50 Tons, Deduct	-2,464.60	
For >50 To 75 Tons, Deduct	-3,520.86	
For >75 Tons, Deduct	-1,760.43	
05 12 23 00-0139 TON 5/8" Plate Weight 26.58 Lb./SF Connection And Stiffener Plates	14,083.44	
For >10 To 25 Tons, Deduct	-1,197.09	
For >25 To 50 Tons, Deduct	-2,464.60	
For >50 To 75 Tons, Deduct	-3,520.86	
For >75 Tons, Deduct	-1,760.43	
05 12 23 00-0140 TON 3/4" Plate Weight 31.68 Lb./SF Connection And Stiffener Plates	13,203.22	
For >10 To 25 Tons, Deduct	-1,122.27	
For >25 To 50 Tons, Deduct	-2,310.56	
For >50 To 75 Tons, Deduct	-3,300.81	
For >75 Tons, Deduct	-1,650.40	
05 12 23 00-0141 TON 7/8" Plate Weight 36.78 Lb./SF Connection And Stiffener Plates	13,203.22	
For >10 To 25 Tons, Deduct	-1,122.27	
For >25 To 50 Tons, Deduct	-2,310.56	
For >50 To 75 Tons, Deduct	-3,300.81	
For >75 Tons, Deduct	-1,650.40	
05 12 23 00-0142 TON 1" Plate Weight 41.89 Lb./SF Connection And Stiffener Plates	13,203.22	
For >10 To 25 Tons, Deduct	-1,122.27	
For >25 To 50 Tons, Deduct	-2,310.56	
For >50 To 75 Tons, Deduct	-3,300.81	
For >75 Tons, Deduct	-1,650.40	
05 12 23 00-0143 Field Applied Cold Galvanizing (05 12 23 00-0128)		
05 12 23 00-0144 SF Brush Applied Cold Galvanizing	2.24	
05 12 23 00-0145 Metal Grinding (05 12 23 00-0128)		
Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0146 SI Metal Grinding Up To 1/32" Thickness To Be Removed.....	1.28	
Note: Includes rust or scale removal on metal and smoothing surface.		
05 12 23 00-0147 Structural Steel For Buildings And Structures (05 12 23)		
Note: Prices by Ton (or Lb.) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0148 First Tier A992/A36 Structural Steel Columns, W Shapes (05 12 23 00-0147)		
Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0149 LF W14 x 730 A992/A36 Structural Column	1,771.12	83.33
For Hot Dip Galvanizing, Add	466.84	
For High Strength Low Alloy A572-50 Steel, Add	159.40	
For High Strength Low Alloy A588 Grade B Steel, Add	354.22	
05 12 23 00-0150 LF W14 x 665 A992/A36 Structural Column	1,615.29	77.66
For Hot Dip Galvanizing, Add	425.27	
For High Strength Low Alloy A572-50 Steel, Add	145.38	
For High Strength Low Alloy A588 Grade B Steel, Add	323.06	
05 12 23 00-0151 LF W14 x 605 A992/A36 Structural Column	1,471.30	72.30
For Hot Dip Galvanizing, Add	386.90	
For High Strength Low Alloy A572-50 Steel, Add	132.42	
For High Strength Low Alloy A588 Grade B Steel, Add	294.26	
05 12 23 00-0152 LF W14 x 550 A992/A36 Structural Column	1,339.17	67.24
For Hot Dip Galvanizing, Add	351.73	
For High Strength Low Alloy A572-50 Steel, Add	120.53	
For High Strength Low Alloy A588 Grade B Steel, Add	267.83	
05 12 23 00-0153 LF W14 x 500 A992/A36 Structural Column	1,230.38	73.20
For Hot Dip Galvanizing, Add	319.75	
For High Strength Low Alloy A572-50 Steel, Add	110.73	
For High Strength Low Alloy A588 Grade B Steel, Add	246.08	
05 12 23 00-0154 LF W14 x 426 A992/A36 Structural Column	1,049.83	63.92
For Hot Dip Galvanizing, Add	272.43	
For High Strength Low Alloy A572-50 Steel, Add	94.48	
For High Strength Low Alloy A588 Grade B Steel, Add	209.97	
05 12 23 00-0155 LF W14 x 342 A992/A36 Structural Column	849.05	55.33
For Hot Dip Galvanizing, Add	219.26	
For High Strength Low Alloy A572-50 Steel, Add	76.41	
For High Strength Low Alloy A588 Grade B Steel, Add	169.81	
05 12 23 00-0156 LF W14 x 311 A992/A36 Structural Column	764.78	51.66
For Hot Dip Galvanizing, Add	196.93	
For High Strength Low Alloy A572-50 Steel, Add	68.83	
For High Strength Low Alloy A588 Grade B Steel, Add	152.96	
05 12 23 00-0157 LF W14 x 283 A992/A36 Structural Column	694.24	48.71
For Hot Dip Galvanizing, Add	178.25	
For High Strength Low Alloy A572-50 Steel, Add	62.48	
For High Strength Low Alloy A588 Grade B Steel, Add	138.85	
05 12 23 00-0158 LF W14 x 257 A992/A36 Structural Column	610.34	46.18
For Hot Dip Galvanizing, Add	155.71	
For High Strength Low Alloy A572-50 Steel, Add	54.93	
For High Strength Low Alloy A588 Grade B Steel, Add	122.07	



Metals			05	05
Structural Metal Framing			05 10	
Structural Steel Framing			05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0159	LF		W14 x 233 A992/A36 Structural Column	561.70	42.94
			For Hot Dip Galvanizing, Add	143.17	
			For High Strength Low Alloy A572-50 Steel, Add	50.55	
			For High Strength Low Alloy A588 Grade B Steel, Add	112.34	
05 12 23 00-0160	LF		W14 x 211 A992/A36 Structural Column	499.67	39.98
			For Hot Dip Galvanizing, Add	126.82	
			For High Strength Low Alloy A572-50 Steel, Add	44.97	
			For High Strength Low Alloy A588 Grade B Steel, Add	99.93	
05 12 23 00-0161	LF		W14 x 193 A992/A36 Structural Column	452.00	38.01
			For Hot Dip Galvanizing, Add	114.18	
			For High Strength Low Alloy A572-50 Steel, Add	40.68	
			For High Strength Low Alloy A588 Grade B Steel, Add	90.40	
05 12 23 00-0162	LF		W14 x 176 A992/A36 Structural Column	407.47	36.33
			For Hot Dip Galvanizing, Add	102.33	
			For High Strength Low Alloy A572-50 Steel, Add	36.67	
			For High Strength Low Alloy A588 Grade B Steel, Add	81.49	
05 12 23 00-0163	LF		W14 x 159 A992/A36 Structural Column	368.50	35.05
			For Hot Dip Galvanizing, Add	91.91	
			For High Strength Low Alloy A572-50 Steel, Add	33.17	
			For High Strength Low Alloy A588 Grade B Steel, Add	73.70	
05 12 23 00-0164	LF		W14 x 145 A992/A36 Structural Column	356.12	33.93
			For Hot Dip Galvanizing, Add	88.78	
			For High Strength Low Alloy A572-50 Steel, Add	32.05	
			For High Strength Low Alloy A588 Grade B Steel, Add	71.22	
05 12 23 00-0165	LF		W14 x 132 A992/A36 Structural Column	304.67	32.38
			For Hot Dip Galvanizing, Add	74.97	
			For High Strength Low Alloy A572-50 Steel, Add	27.42	
			For High Strength Low Alloy A588 Grade B Steel, Add	60.93	
05 12 23 00-0166	LF		W14 x 120 A992/A36 Structural Column	285.71	31.53
			For Hot Dip Galvanizing, Add	69.95	
			For High Strength Low Alloy A572-50 Steel, Add	25.71	
			For High Strength Low Alloy A588 Grade B Steel, Add	57.14	
05 12 23 00-0167	LF		W14 x 109 A992/A36 Structural Column	255.89	30.27
			For Hot Dip Galvanizing, Add	62.06	
			For High Strength Low Alloy A572-50 Steel, Add	23.03	
			For High Strength Low Alloy A588 Grade B Steel, Add	51.18	
05 12 23 00-0168	LF		W14 x 99 A992/A36 Structural Column	233.56	29.42
			For Hot Dip Galvanizing, Add	56.14	
			For High Strength Low Alloy A572-50 Steel, Add	21.02	
			For High Strength Low Alloy A588 Grade B Steel, Add	46.71	
05 12 23 00-0169	LF		W14 x 90 A992/A36 Structural Column	217.02	28.72
			For Hot Dip Galvanizing, Add	51.75	
			For High Strength Low Alloy A572-50 Steel, Add	19.53	
			For High Strength Low Alloy A588 Grade B Steel, Add	43.40	
05 12 23 00-0170	LF		W14 x 82 A992/A36 Structural Column	199.96	27.87
			For Hot Dip Galvanizing, Add	47.25	
			For High Strength Low Alloy A572-50 Steel, Add	18.00	
			For High Strength Low Alloy A588 Grade B Steel, Add	39.99	
05 12 23 00-0171	LF		W14 x 74 A992/A36 Structural Column	180.63	27.17
			For Hot Dip Galvanizing, Add	42.12	
			For High Strength Low Alloy A572-50 Steel, Add	16.26	
			For High Strength Low Alloy A588 Grade B Steel, Add	36.13	
05 12 23 00-0172	LF		W14 x 68 A992/A36 Structural Column	168.77	26.75
			For Hot Dip Galvanizing, Add	38.94	
			For High Strength Low Alloy A572-50 Steel, Add	15.19	
			For High Strength Low Alloy A588 Grade B Steel, Add	33.75	
05 12 23 00-0173	LF		W14 x 61 A992/A36 Structural Column	153.96	26.04
			For Hot Dip Galvanizing, Add	35.03	
			For High Strength Low Alloy A572-50 Steel, Add	13.86	
			For High Strength Low Alloy A588 Grade B Steel, Add	30.79	
05 12 23 00-0174	LF		W14 x 53 A992/A36 Structural Column	140.28	25.34
			For Hot Dip Galvanizing, Add	31.43	
			For High Strength Low Alloy A572-50 Steel, Add	12.63	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.06	
05 12 23 00-0175	LF		W14 x 48 A992/A36 Structural Column	131.48	24.92
			For Hot Dip Galvanizing, Add	29.10	
			For High Strength Low Alloy A572-50 Steel, Add	11.83	
			For High Strength Low Alloy A588 Grade B Steel, Add	26.30	
05 12 23 00-0176	LF		W14 x 43 A992/A36 Structural Column	118.71	24.50
			For Hot Dip Galvanizing, Add	25.71	
			For High Strength Low Alloy A572-50 Steel, Add	10.68	
			For High Strength Low Alloy A588 Grade B Steel, Add	23.74	
05 12 23 00-0177	LF		W12 x 336 A992/A36 Structural Column	807.65	37.10
			For Hot Dip Galvanizing, Add	213.14	
			For High Strength Low Alloy A572-50 Steel, Add	72.69	
			For High Strength Low Alloy A588 Grade B Steel, Add	161.53	
05 12 23 00-0178	LF		W12 x 305 A992/A36 Structural Column	736.00	36.37
			For Hot Dip Galvanizing, Add	193.48	
			For High Strength Low Alloy A572-50 Steel, Add	66.24	
			For High Strength Low Alloy A588 Grade B Steel, Add	147.20	
05 12 23 00-0179	LF		W12 x 279 A992/A36 Structural Column	676.08	35.93
			For Hot Dip Galvanizing, Add	176.99	
			For High Strength Low Alloy A572-50 Steel, Add	60.85	
			For High Strength Low Alloy A588 Grade B Steel, Add	135.22	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0180	LF		W12 x 252 A992/A36 Structural Column	613.40	35.04
			For Hot Dip Galvanizing, Add	159.86	
			For High Strength Low Alloy A572-50 Steel, Add	55.21	
			For High Strength Low Alloy A588 Grade B Steel, Add	122.68	
05 12 23 00-0181	LF		W12 x 230 A992/A36 Structural Column	562.58	34.53
			For Hot Dip Galvanizing, Add	145.90	
			For High Strength Low Alloy A572-50 Steel, Add	50.63	
			For High Strength Low Alloy A588 Grade B Steel, Add	112.52	
05 12 23 00-0182	LF		W12 x 210 A992/A36 Structural Column	516.34	34.04
			For Hot Dip Galvanizing, Add	133.21	
			For High Strength Low Alloy A572-50 Steel, Add	46.47	
			For High Strength Low Alloy A588 Grade B Steel, Add	103.27	
05 12 23 00-0183	LF		W12 x 190 A992/A36 Structural Column	475.86	38.85
			For Hot Dip Galvanizing, Add	120.53	
			For High Strength Low Alloy A572-50 Steel, Add	42.83	
			For High Strength Low Alloy A588 Grade B Steel, Add	95.17	
05 12 23 00-0184	LF		W12 x 170 A992/A36 Structural Column	430.11	37.73
			For Hot Dip Galvanizing, Add	108.22	
			For High Strength Low Alloy A572-50 Steel, Add	38.71	
			For High Strength Low Alloy A588 Grade B Steel, Add	86.02	
05 12 23 00-0185	LF		W12 x 152 A992/A36 Structural Column	387.75	35.05
			For Hot Dip Galvanizing, Add	97.25	
			For High Strength Low Alloy A572-50 Steel, Add	34.90	
			For High Strength Low Alloy A588 Grade B Steel, Add	77.55	
05 12 23 00-0186	LF		W12 x 136 A992/A36 Structural Column	368.66	34.07
			For Hot Dip Galvanizing, Add	92.22	
			For High Strength Low Alloy A572-50 Steel, Add	33.18	
			For High Strength Low Alloy A588 Grade B Steel, Add	73.73	
05 12 23 00-0187	LF		W12 x 120 A992/A36 Structural Column	279.28	31.26
			For Hot Dip Galvanizing, Add	68.20	
			For High Strength Low Alloy A572-50 Steel, Add	25.14	
			For High Strength Low Alloy A588 Grade B Steel, Add	55.86	
05 12 23 00-0188	LF		W12 x 106 A992/A36 Structural Column	257.42	30.27
			For Hot Dip Galvanizing, Add	62.49	
			For High Strength Low Alloy A572-50 Steel, Add	23.17	
			For High Strength Low Alloy A588 Grade B Steel, Add	51.48	
05 12 23 00-0189	LF		W12 x 96 A992/A36 Structural Column	230.36	29.28
			For Hot Dip Galvanizing, Add	55.29	
			For High Strength Low Alloy A572-50 Steel, Add	20.73	
			For High Strength Low Alloy A588 Grade B Steel, Add	46.07	
05 12 23 00-0190	LF		W12 x 87 A992/A36 Structural Column	212.55	28.30
			For Hot Dip Galvanizing, Add	50.58	
			For High Strength Low Alloy A572-50 Steel, Add	19.13	
			For High Strength Low Alloy A588 Grade B Steel, Add	42.51	
05 12 23 00-0191	LF		W12 x 79 A992/A36 Structural Column	186.58	27.46
			For Hot Dip Galvanizing, Add	43.65	
			For High Strength Low Alloy A572-50 Steel, Add	16.79	
			For High Strength Low Alloy A588 Grade B Steel, Add	37.32	
05 12 23 00-0192	LF		W12 x 72 A992/A36 Structural Column	170.82	26.75
			For Hot Dip Galvanizing, Add	39.47	
			For High Strength Low Alloy A572-50 Steel, Add	15.37	
			For High Strength Low Alloy A588 Grade B Steel, Add	34.16	
05 12 23 00-0193	LF		W12 x 65 A992/A36 Structural Column	156.19	26.18
			For Hot Dip Galvanizing, Add	35.61	
			For High Strength Low Alloy A572-50 Steel, Add	14.06	
			For High Strength Low Alloy A588 Grade B Steel, Add	31.24	
05 12 23 00-0194	LF		W12 x 58 A992/A36 Structural Column	151.14	25.90
			For Hot Dip Galvanizing, Add	34.29	
			For High Strength Low Alloy A572-50 Steel, Add	13.60	
			For High Strength Low Alloy A588 Grade B Steel, Add	30.23	
05 12 23 00-0195	LF		W12 x 53 A992/A36 Structural Column	140.28	25.34
			For Hot Dip Galvanizing, Add	31.43	
			For High Strength Low Alloy A572-50 Steel, Add	12.63	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.06	
05 12 23 00-0196	LF		W12 x 50 A992/A36 Structural Column	135.95	25.20
			For Hot Dip Galvanizing, Add	30.26	
			For High Strength Low Alloy A572-50 Steel, Add	12.24	
			For High Strength Low Alloy A588 Grade B Steel, Add	27.19	
05 12 23 00-0197	LF		W12 x 45 A992/A36 Structural Column	123.57	24.63
			For Hot Dip Galvanizing, Add	26.98	
			For High Strength Low Alloy A572-50 Steel, Add	11.12	
			For High Strength Low Alloy A588 Grade B Steel, Add	24.71	
05 12 23 00-0198	LF		W12 x 40 A992/A36 Structural Column	110.80	24.07
			For Hot Dip Galvanizing, Add	23.60	
			For High Strength Low Alloy A572-50 Steel, Add	9.97	
			For High Strength Low Alloy A588 Grade B Steel, Add	22.16	
05 12 23 00-0199	LF		W10 x 112 A992/A36 Structural Column	269.23	30.83
			For Hot Dip Galvanizing, Add	65.61	
			For High Strength Low Alloy A572-50 Steel, Add	24.23	
			For High Strength Low Alloy A588 Grade B Steel, Add	53.85	
05 12 23 00-0200	LF		W10 x 110 A992/A36 Structural Column	243.56	29.57
			For Hot Dip Galvanizing, Add	58.84	
			For High Strength Low Alloy A572-50 Steel, Add	21.92	
			For High Strength Low Alloy A588 Grade B Steel, Add	48.71	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0201 LF W10 x 88 A992/A36 Structural Column	218.98	28.57
For Hot Dip Galvanizing, Add	52.33	
For High Strength Low Alloy A572-50 Steel, Add	19.71	
For High Strength Low Alloy A588 Grade B Steel, Add	43.80	
05 12 23 00-0202 LF W10 x 77 A992/A36 Structural Column	194.78	27.46
For Hot Dip Galvanizing, Add	45.93	
For High Strength Low Alloy A572-50 Steel, Add	17.53	
For High Strength Low Alloy A588 Grade B Steel, Add	38.96	
05 12 23 00-0203 LF W10 x 68 A992/A36 Structural Column	175.44	26.75
For Hot Dip Galvanizing, Add	40.79	
For High Strength Low Alloy A572-50 Steel, Add	15.79	
For High Strength Low Alloy A588 Grade B Steel, Add	35.09	
05 12 23 00-0204 LF W10 x 60 A992/A36 Structural Column	153.96	26.04
For Hot Dip Galvanizing, Add	35.03	
For High Strength Low Alloy A572-50 Steel, Add	13.86	
For High Strength Low Alloy A588 Grade B Steel, Add	30.79	
05 12 23 00-0205 LF W10 x 54 A992/A36 Structural Column	152.92	25.63
For Hot Dip Galvanizing, Add	34.82	
For High Strength Low Alloy A572-50 Steel, Add	13.76	
For High Strength Low Alloy A588 Grade B Steel, Add	30.58	
05 12 23 00-0206 LF W10 x 49 A992/A36 Structural Column	134.28	25.20
For Hot Dip Galvanizing, Add	29.84	
For High Strength Low Alloy A572-50 Steel, Add	12.09	
For High Strength Low Alloy A588 Grade B Steel, Add	26.86	
05 12 23 00-0207 LF W10 x 45 A992/A36 Structural Column	129.61	24.78
For Hot Dip Galvanizing, Add	28.62	
For High Strength Low Alloy A572-50 Steel, Add	11.66	
For High Strength Low Alloy A588 Grade B Steel, Add	25.92	
05 12 23 00-0208 LF W10 x 39 A992/A36 Structural Column	112.84	24.35
For Hot Dip Galvanizing, Add	24.13	
For High Strength Low Alloy A572-50 Steel, Add	10.16	
For High Strength Low Alloy A588 Grade B Steel, Add	22.57	
05 12 23 00-0209 LF W10 x 33 A992/A36 Structural Column	98.42	23.65
For Hot Dip Galvanizing, Add	20.32	
For High Strength Low Alloy A572-50 Steel, Add	8.86	
For High Strength Low Alloy A588 Grade B Steel, Add	19.68	
05 12 23 00-0210 LF W8 x 67 A992/A36 Structural Column	168.96	26.75
For Hot Dip Galvanizing, Add	38.99	
For High Strength Low Alloy A572-50 Steel, Add	15.21	
For High Strength Low Alloy A588 Grade B Steel, Add	33.79	
05 12 23 00-0211 LF W8 x 58 A992/A36 Structural Column	151.71	25.90
For Hot Dip Galvanizing, Add	34.44	
For High Strength Low Alloy A572-50 Steel, Add	13.65	
For High Strength Low Alloy A588 Grade B Steel, Add	30.34	
05 12 23 00-0212 LF W8 x 48 A992/A36 Structural Column	135.81	25.20
For Hot Dip Galvanizing, Add	30.26	
For High Strength Low Alloy A572-50 Steel, Add	12.22	
For High Strength Low Alloy A588 Grade B Steel, Add	27.16	
05 12 23 00-0213 LF W8 x 40 A992/A36 Structural Column	116.62	24.50
For Hot Dip Galvanizing, Add	25.13	
For High Strength Low Alloy A572-50 Steel, Add	10.50	
For High Strength Low Alloy A588 Grade B Steel, Add	23.32	
05 12 23 00-0214 LF W8 x 35 A992/A36 Structural Column	105.37	23.93
For Hot Dip Galvanizing, Add	22.17	
For High Strength Low Alloy A572-50 Steel, Add	9.48	
For High Strength Low Alloy A588 Grade B Steel, Add	21.07	
05 12 23 00-0215 LF W8 x 31 A992/A36 Structural Column	96.32	23.65
For Hot Dip Galvanizing, Add	19.74	
For High Strength Low Alloy A572-50 Steel, Add	8.67	
For High Strength Low Alloy A588 Grade B Steel, Add	19.26	
05 12 23 00-0216 LF W8 x 28 A992/A36 Structural Column	90.70	23.37
For Hot Dip Galvanizing, Add	18.25	
For High Strength Low Alloy A572-50 Steel, Add	8.16	
For High Strength Low Alloy A588 Grade B Steel, Add	18.14	
05 12 23 00-0217 LF W8 x 24 A992/A36 Structural Column	83.94	23.09
For Hot Dip Galvanizing, Add	16.46	
For High Strength Low Alloy A572-50 Steel, Add	7.55	
For High Strength Low Alloy A588 Grade B Steel, Add	16.79	
05 12 23 00-0218 LF W8 x 21 A992/A36 Structural Column	79.45	22.94
For Hot Dip Galvanizing, Add	15.29	
For High Strength Low Alloy A572-50 Steel, Add	7.15	
For High Strength Low Alloy A588 Grade B Steel, Add	15.89	
05 12 23 00-0219 LF W8 x 18 A992/A36 Structural Column	70.97	22.52
For Hot Dip Galvanizing, Add	13.01	
For High Strength Low Alloy A572-50 Steel, Add	6.39	
For High Strength Low Alloy A588 Grade B Steel, Add	14.19	
05 12 23 00-0220 LF W6 x 25 A992/A36 Structural Column	88.13	23.09
For Hot Dip Galvanizing, Add	17.62	
For High Strength Low Alloy A572-50 Steel, Add	7.93	
For High Strength Low Alloy A588 Grade B Steel, Add	17.63	
05 12 23 00-0221 LF W6 x 20 A992/A36 Structural Column	74.56	22.67
For Hot Dip Galvanizing, Add	13.97	
For High Strength Low Alloy A572-50 Steel, Add	6.71	
For High Strength Low Alloy A588 Grade B Steel, Add	14.91	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0222	LF		W6 x 15 A992/A36 Structural Column	63.93	21.96
			For Hot Dip Galvanizing, Add	11.22	
			For High Strength Low Alloy A572-50 Steel, Add	5.75	
			For High Strength Low Alloy A588 Grade B Steel, Add	12.79	
05 12 23 00-0223	LF		W6 x 12 A992/A36 Structural Column	59.93	21.96
			For Hot Dip Galvanizing, Add	10.11	
			For High Strength Low Alloy A572-50 Steel, Add	5.39	
			For High Strength Low Alloy A588 Grade B Steel, Add	11.99	
05 12 23 00-0224	LF		W6 x 9 A992/A36 Structural Column	54.83	21.82
			For Hot Dip Galvanizing, Add	8.73	
			For High Strength Low Alloy A572-50 Steel, Add	4.93	
			For High Strength Low Alloy A588 Grade B Steel, Add	10.97	
05 12 23 00-0225	LF		W5 x 19 A992/A36 Structural Column	73.41	22.67
			For Hot Dip Galvanizing, Add	13.65	
			For High Strength Low Alloy A572-50 Steel, Add	6.61	
			For High Strength Low Alloy A588 Grade B Steel, Add	14.68	
05 12 23 00-0226	LF		W5 x 16 A992/A36 Structural Column	67.60	22.52
			For Hot Dip Galvanizing, Add	12.12	
			For High Strength Low Alloy A572-50 Steel, Add	6.08	
			For High Strength Low Alloy A588 Grade B Steel, Add	13.52	
05 12 23 00-0227	LF		W4 x 13 A992/A36 Structural Column	63.31	22.24
			For Hot Dip Galvanizing, Add	11.01	
			For High Strength Low Alloy A572-50 Steel, Add	5.70	
			For High Strength Low Alloy A588 Grade B Steel, Add	12.66	
05 12 23 00-0228			A992/A36 Structural Steel Beams And Girders, W Shapes (05 12 23 00-0147)		
			Note: Includes material delivery and erection.		
05 12 23 00-0229	LF		W36 x 300 A992/A36 Structural Beam Or Girder	638.69	91.26
			For Hot Dip Galvanizing, Add	150.22	
			For High Strength Low Alloy A572-50 Steel, Add	57.48	
			For High Strength Low Alloy A588 Steel, Add	127.74	
			For Each Additional Top Copes >2, Add	5.41	
			For Structural Tees, WT, MT Or ST, Deduct	-208.94	
			For Skewed Or Sloped Connections, Add	76.64	
05 12 23 00-0230	LF		W36 x 280 A992/A36 Structural Beam Or Girder	617.88	105.59
			For Hot Dip Galvanizing, Add	140.21	
			For High Strength Low Alloy A572-50 Steel, Add	55.61	
			For High Strength Low Alloy A588 Steel, Add	123.58	
			For Each Additional Top Copes >2, Add	5.05	
			For Structural Tees, WT, MT Or ST, Deduct	-199.37	
			For Skewed Or Sloped Connections, Add	74.15	
05 12 23 00-0231	LF		W36 x 260 A992/A36 Structural Beam Or Girder	585.06	104.32
			For Hot Dip Galvanizing, Add	131.49	
			For High Strength Low Alloy A572-50 Steel, Add	52.66	
			For High Strength Low Alloy A588 Steel, Add	117.01	
			For Each Additional Top Copes >2, Add	4.74	
			For Structural Tees, WT, MT Or ST, Deduct	-188.09	
			For Skewed Or Sloped Connections, Add	70.21	
05 12 23 00-0232	LF		W36 x 240 A992/A36 Structural Beam Or Girder	543.81	87.95
			For Hot Dip Galvanizing, Add	124.88	
			For High Strength Low Alloy A572-50 Steel, Add	48.94	
			For High Strength Low Alloy A588 Steel, Add	108.76	
			For Each Additional Top Copes >2, Add	4.50	
			For Structural Tees, WT, MT Or ST, Deduct	-176.26	
			For Skewed Or Sloped Connections, Add	65.26	
05 12 23 00-0233	LF		W36 x 230 A992/A36 Structural Beam Or Girder	526.38	89.20
			For Hot Dip Galvanizing, Add	119.67	
			For High Strength Low Alloy A572-50 Steel, Add	47.37	
			For High Strength Low Alloy A588 Steel, Add	105.28	
			For Each Additional Top Copes >2, Add	4.31	
			For Structural Tees, WT, MT Or ST, Deduct	-169.96	
			For Skewed Or Sloped Connections, Add	63.17	
05 12 23 00-0234	LF		W36 x 210 A992/A36 Structural Beam Or Girder	501.45	100.94
			For Hot Dip Galvanizing, Add	109.27	
			For High Strength Low Alloy A572-50 Steel, Add	45.13	
			For High Strength Low Alloy A588 Steel, Add	100.29	
			For Each Additional Top Copes >2, Add	3.94	
			For Structural Tees, WT, MT Or ST, Deduct	-159.35	
			For Skewed Or Sloped Connections, Add	60.17	
05 12 23 00-0235	LF		W36 x 194 A992/A36 Structural Beam Or Girder	471.29	85.31
			For Hot Dip Galvanizing, Add	105.53	
			For High Strength Low Alloy A572-50 Steel, Add	42.42	
			For High Strength Low Alloy A588 Steel, Add	94.26	
			For Each Additional Top Copes >2, Add	3.80	
			For Structural Tees, WT, MT Or ST, Deduct	-151.30	
			For Skewed Or Sloped Connections, Add	56.55	
05 12 23 00-0236	LF		W36 x 182 A992/A36 Structural Beam Or Girder	447.11	84.68
			For Hot Dip Galvanizing, Add	99.01	
			For High Strength Low Alloy A572-50 Steel, Add	40.24	
			For High Strength Low Alloy A588 Steel, Add	89.42	
			For Each Additional Top Copes >2, Add	3.57	
			For Structural Tees, WT, MT Or ST, Deduct	-142.94	
			For Skewed Or Sloped Connections, Add	53.65	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0237	LF		W36 x 170 A992/A36 Structural Beam Or Girder	422.55	83.71
			For Hot Dip Galvanizing, Add	92.48	
			For High Strength Low Alloy A572-50 Steel, Add	38.03	
			For High Strength Low Alloy A588 Steel, Add	84.51	
			For Each Additional Top Copes >2, Add	3.33	
			For Structural Tees, WT, MT Or ST, Deduct	-134.50	
			For Skewed Or Sloped Connections, Add	50.71	
05 12 23 00-0238	LF		W36 x 160 A992/A36 Structural Beam Or Girder	417.83	97.70
			For Hot Dip Galvanizing, Add	87.04	
			For High Strength Low Alloy A572-50 Steel, Add	37.60	
			For High Strength Low Alloy A588 Steel, Add	83.57	
			For Each Additional Top Copes >2, Add	3.14	
			For Structural Tees, WT, MT Or ST, Deduct	-130.61	
			For Skewed Or Sloped Connections, Add	50.14	
05 12 23 00-0239	LF		W36 x 150 A992/A36 Structural Beam Or Girder	400.68	97.00
			For Hot Dip Galvanizing, Add	82.48	
			For High Strength Low Alloy A572-50 Steel, Add	36.06	
			For High Strength Low Alloy A588 Steel, Add	80.14	
			For Each Additional Top Copes >2, Add	2.97	
			For Structural Tees, WT, MT Or ST, Deduct	-124.72	
			For Skewed Or Sloped Connections, Add	48.08	
05 12 23 00-0240	LF		W36 x 135 A992/A36 Structural Beam Or Girder	376.73	96.16
			For Hot Dip Galvanizing, Add	76.10	
			For High Strength Low Alloy A572-50 Steel, Add	33.91	
			For High Strength Low Alloy A588 Steel, Add	75.35	
			For Each Additional Top Copes >2, Add	2.74	
			For Structural Tees, WT, MT Or ST, Deduct	-116.48	
			For Skewed Or Sloped Connections, Add	45.21	
05 12 23 00-0241	LF		W33 x 241 A992/A36 Structural Beam Or Girder	550.67	90.71
			For Hot Dip Galvanizing, Add	125.96	
			For High Strength Low Alloy A572-50 Steel, Add	49.56	
			For High Strength Low Alloy A588 Steel, Add	110.13	
			For Each Additional Top Copes >2, Add	4.54	
			For Structural Tees, WT, MT Or ST, Deduct	-178.22	
			For Skewed Or Sloped Connections, Add	66.08	
05 12 23 00-0242	LF		W33 x 221 A992/A36 Structural Beam Or Girder	510.63	88.49
			For Hot Dip Galvanizing, Add	115.51	
			For High Strength Low Alloy A572-50 Steel, Add	45.96	
			For High Strength Low Alloy A588 Steel, Add	102.13	
			For Each Additional Top Copes >2, Add	4.16	
			For Structural Tees, WT, MT Or ST, Deduct	-164.56	
			For Skewed Or Sloped Connections, Add	61.28	
05 12 23 00-0243	LF		W33 x 201 A992/A36 Structural Beam Or Girder	485.57	100.23
			For Hot Dip Galvanizing, Add	105.06	
			For High Strength Low Alloy A572-50 Steel, Add	43.70	
			For High Strength Low Alloy A588 Steel, Add	97.11	
			For Each Additional Top Copes >2, Add	3.79	
			For Structural Tees, WT, MT Or ST, Deduct	-153.90	
			For Skewed Or Sloped Connections, Add	58.27	
05 12 23 00-0244	LF		W33 x 170 A992/A36 Structural Beam Or Girder	436.24	98.40
			For Hot Dip Galvanizing, Add	91.95	
			For High Strength Low Alloy A572-50 Steel, Add	39.26	
			For High Strength Low Alloy A588 Steel, Add	87.25	
			For Each Additional Top Copes >2, Add	3.31	
			For Structural Tees, WT, MT Or ST, Deduct	-136.95	
			For Skewed Or Sloped Connections, Add	52.35	
05 12 23 00-0245	LF		W33 x 152 A992/A36 Structural Beam Or Girder	395.31	83.45
			For Hot Dip Galvanizing, Add	85.00	
			For High Strength Low Alloy A572-50 Steel, Add	35.58	
			For High Strength Low Alloy A588 Steel, Add	79.06	
			For Each Additional Top Copes >2, Add	3.06	
			For Structural Tees, WT, MT Or ST, Deduct	-125.01	
			For Skewed Or Sloped Connections, Add	47.44	
05 12 23 00-0246	LF		W33 x 141 A992/A36 Structural Beam Or Girder	387.05	96.44
			For Hot Dip Galvanizing, Add	78.85	
			For High Strength Low Alloy A572-50 Steel, Add	34.83	
			For High Strength Low Alloy A588 Steel, Add	77.41	
			For Each Additional Top Copes >2, Add	2.84	
			For Structural Tees, WT, MT Or ST, Deduct	-120.03	
			For Skewed Or Sloped Connections, Add	46.45	
05 12 23 00-0247	LF		W33 x 130 A992/A36 Structural Beam Or Girder	367.66	95.73
			For Hot Dip Galvanizing, Add	73.70	
			For High Strength Low Alloy A572-50 Steel, Add	33.09	
			For High Strength Low Alloy A588 Steel, Add	73.53	
			For Each Additional Top Copes >2, Add	2.66	
			For Structural Tees, WT, MT Or ST, Deduct	-113.37	
			For Skewed Or Sloped Connections, Add	44.12	
05 12 23 00-0248	LF		W33 x 118 A992/A36 Structural Beam Or Girder	345.10	94.88
			For Hot Dip Galvanizing, Add	67.68	
			For High Strength Low Alloy A572-50 Steel, Add	31.06	
			For High Strength Low Alloy A588 Steel, Add	69.02	
			For Each Additional Top Copes >2, Add	2.44	
			For Structural Tees, WT, MT Or ST, Deduct	-105.60	
			For Skewed Or Sloped Connections, Add	41.41	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0249 LF W30 x 211 A992/A36 Structural Beam Or Girder	489.61	88.33
For Hot Dip Galvanizing, Add	109.72	
For High Strength Low Alloy A572-50 Steel, Add	44.06	
For High Strength Low Alloy A588 Steel, Add	97.92	
For Each Additional Top Copes >2, Add	3.95	
For Structural Tees, WT, MT Or ST, Deduct	-157.23	
For Skewed Or Sloped Connections, Add	58.75	
05 12 23 00-0250 LF W30 x 191 A992/A36 Structural Beam Or Girder	464.21	99.53
For Hot Dip Galvanizing, Add	99.32	
For High Strength Low Alloy A572-50 Steel, Add	41.78	
For High Strength Low Alloy A588 Steel, Add	92.84	
For Each Additional Top Copes >2, Add	3.58	
For Structural Tees, WT, MT Or ST, Deduct	-146.53	
For Skewed Or Sloped Connections, Add	55.71	
05 12 23 00-0251 LF W30 x 173 A992/A36 Structural Beam Or Girder	424.03	84.30
For Hot Dip Galvanizing, Add	92.72	
For High Strength Low Alloy A572-50 Steel, Add	38.16	
For High Strength Low Alloy A588 Steel, Add	84.81	
For Each Additional Top Copes >2, Add	3.34	
For Structural Tees, WT, MT Or ST, Deduct	-134.92	
For Skewed Or Sloped Connections, Add	50.88	
05 12 23 00-0252 LF W30 x 154 A992/A36 Structural Beam Or Girder	401.03	97.14
For Hot Dip Galvanizing, Add	82.53	
For High Strength Low Alloy A572-50 Steel, Add	36.09	
For High Strength Low Alloy A588 Steel, Add	80.21	
For Each Additional Top Copes >2, Add	2.97	
For Structural Tees, WT, MT Or ST, Deduct	-124.82	
For Skewed Or Sloped Connections, Add	48.12	
05 12 23 00-0253 LF W30 x 132 A992/A36 Structural Beam Or Girder	356.36	81.33
For Hot Dip Galvanizing, Add	74.82	
For High Strength Low Alloy A572-50 Steel, Add	32.07	
For High Strength Low Alloy A588 Steel, Add	71.27	
For Each Additional Top Copes >2, Add	2.70	
For Structural Tees, WT, MT Or ST, Deduct	-111.71	
For Skewed Or Sloped Connections, Add	42.76	
05 12 23 00-0254 LF W30 x 124 A992/A36 Structural Beam Or Girder	339.97	81.28
For Hot Dip Galvanizing, Add	70.28	
For High Strength Low Alloy A572-50 Steel, Add	30.60	
For High Strength Low Alloy A588 Steel, Add	67.99	
For Each Additional Top Copes >2, Add	2.53	
For Structural Tees, WT, MT Or ST, Deduct	-105.98	
For Skewed Or Sloped Connections, Add	40.80	
05 12 23 00-0255 LF W30 x 116 A992/A36 Structural Beam Or Girder	338.01	94.75
For Hot Dip Galvanizing, Add	65.75	
For High Strength Low Alloy A572-50 Steel, Add	30.42	
For High Strength Low Alloy A588 Steel, Add	67.60	
For Each Additional Top Copes >2, Add	2.37	
For Structural Tees, WT, MT Or ST, Deduct	-103.14	
For Skewed Or Sloped Connections, Add	40.56	
05 12 23 00-0256 LF W30 x 108 A992/A36 Structural Beam Or Girder	312.69	85.31
For Hot Dip Galvanizing, Add	61.54	
For High Strength Low Alloy A572-50 Steel, Add	28.14	
For High Strength Low Alloy A588 Steel, Add	62.54	
For Each Additional Top Copes >2, Add	2.22	
For Structural Tees, WT, MT Or ST, Deduct	-95.80	
For Skewed Or Sloped Connections, Add	37.52	
05 12 23 00-0257 LF W30 x 99 A992/A36 Structural Beam Or Girder	298.85	84.89
For Hot Dip Galvanizing, Add	57.85	
For High Strength Low Alloy A572-50 Steel, Add	26.90	
For High Strength Low Alloy A588 Steel, Add	59.77	
For Each Additional Top Copes >2, Add	2.08	
For Structural Tees, WT, MT Or ST, Deduct	-91.04	
For Skewed Or Sloped Connections, Add	35.86	
05 12 23 00-0258 LF W27 x 178 A992/A36 Structural Beam Or Girder	471.29	98.69
For Hot Dip Galvanizing, Add	101.57	
For High Strength Low Alloy A572-50 Steel, Add	42.42	
For High Strength Low Alloy A588 Steel, Add	94.26	
For Each Additional Top Copes >2, Add	3.66	
For Structural Tees, WT, MT Or ST, Deduct	-149.16	
For Skewed Or Sloped Connections, Add	56.55	
05 12 23 00-0259 LF W27 x 161 A992/A36 Structural Beam Or Girder	432.35	94.96
For Hot Dip Galvanizing, Add	91.87	
For High Strength Low Alloy A572-50 Steel, Add	38.91	
For High Strength Low Alloy A588 Steel, Add	86.47	
For Each Additional Top Copes >2, Add	3.31	
For Structural Tees, WT, MT Or ST, Deduct	-136.13	
For Skewed Or Sloped Connections, Add	51.88	
05 12 23 00-0260 LF W27 x 146 A992/A36 Structural Beam Or Girder	397.93	91.61
For Hot Dip Galvanizing, Add	83.31	
For High Strength Low Alloy A572-50 Steel, Add	35.81	
For High Strength Low Alloy A588 Steel, Add	79.59	
For Each Additional Top Copes >2, Add	3.00	
For Structural Tees, WT, MT Or ST, Deduct	-124.62	
For Skewed Or Sloped Connections, Add	47.75	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0261 LF W27 x 114 A992/A36 Structural Beam Or Girder	315.58	76.10
For Hot Dip Galvanizing, Add	65.05	
For High Strength Low Alloy A572-50 Steel, Add	28.40	
For High Strength Low Alloy A588 Steel, Add	63.12	
For Each Additional Top Copes >2, Add	2.34	
For Structural Tees, WT, MT Or ST, Deduct	-98.28	
For Skewed Or Sloped Connections, Add	37.87	
05 12 23 00-0262 LF W27 x 102 A992/A36 Structural Beam Or Girder	300.25	84.89
For Hot Dip Galvanizing, Add	58.20	
For High Strength Low Alloy A572-50 Steel, Add	27.02	
For High Strength Low Alloy A588 Steel, Add	60.05	
For Each Additional Top Copes >2, Add	2.10	
For Structural Tees, WT, MT Or ST, Deduct	-91.51	
For Skewed Or Sloped Connections, Add	36.03	
05 12 23 00-0263 LF W27 x 94 A992/A36 Structural Beam Or Girder	287.26	84.33
For Hot Dip Galvanizing, Add	54.75	
For High Strength Low Alloy A572-50 Steel, Add	25.85	
For High Strength Low Alloy A588 Steel, Add	57.45	
For Each Additional Top Copes >2, Add	1.97	
For Structural Tees, WT, MT Or ST, Deduct	-87.05	
For Skewed Or Sloped Connections, Add	34.47	
05 12 23 00-0264 LF W27 x 84 A992/A36 Structural Beam Or Girder	271.37	83.77
For Hot Dip Galvanizing, Add	50.54	
For High Strength Low Alloy A572-50 Steel, Add	24.42	
For High Strength Low Alloy A588 Steel, Add	54.27	
For Each Additional Top Copes >2, Add	1.82	
For Structural Tees, WT, MT Or ST, Deduct	-81.59	
For Skewed Or Sloped Connections, Add	32.56	
05 12 23 00-0265 LF W24 x 162 A992/A36 Structural Beam Or Girder	416.43	91.05
For Hot Dip Galvanizing, Add	88.61	
For High Strength Low Alloy A572-50 Steel, Add	37.48	
For High Strength Low Alloy A588 Steel, Add	83.29	
For Each Additional Top Copes >2, Add	3.19	
For Structural Tees, WT, MT Or ST, Deduct	-131.18	
For Skewed Or Sloped Connections, Add	49.97	
05 12 23 00-0266 LF W24 x 146 A992/A36 Structural Beam Or Girder	380.89	87.29
For Hot Dip Galvanizing, Add	79.86	
For High Strength Low Alloy A572-50 Steel, Add	34.28	
For High Strength Low Alloy A588 Steel, Add	76.18	
For Each Additional Top Copes >2, Add	2.88	
For Structural Tees, WT, MT Or ST, Deduct	-119.35	
For Skewed Or Sloped Connections, Add	45.71	
05 12 23 00-0267 LF W24 x 131 A992/A36 Structural Beam Or Girder	347.08	83.33
For Hot Dip Galvanizing, Add	71.65	
For High Strength Low Alloy A572-50 Steel, Add	31.24	
For High Strength Low Alloy A588 Steel, Add	69.42	
For Each Additional Top Copes >2, Add	2.58	
For Structural Tees, WT, MT Or ST, Deduct	-108.15	
For Skewed Or Sloped Connections, Add	41.65	
05 12 23 00-0268 LF W24 x 117 A992/A36 Structural Beam Or Girder	315.06	79.16
For Hot Dip Galvanizing, Add	64.00	
For High Strength Low Alloy A572-50 Steel, Add	28.36	
For High Strength Low Alloy A588 Steel, Add	63.01	
For Each Additional Top Copes >2, Add	2.31	
For Structural Tees, WT, MT Or ST, Deduct	-97.61	
For Skewed Or Sloped Connections, Add	37.81	
05 12 23 00-0269 LF W24 x 104 A992/A36 Structural Beam Or Girder	284.84	74.86
For Hot Dip Galvanizing, Add	56.88	
For High Strength Low Alloy A572-50 Steel, Add	25.64	
For High Strength Low Alloy A588 Steel, Add	56.97	
For Each Additional Top Copes >2, Add	2.05	
For Structural Tees, WT, MT Or ST, Deduct	-87.72	
For Skewed Or Sloped Connections, Add	34.18	
05 12 23 00-0270 LF W24 x 94 A992/A36 Structural Beam Or Girder	275.24	84.33
For Hot Dip Galvanizing, Add	51.42	
For High Strength Low Alloy A572-50 Steel, Add	24.77	
For High Strength Low Alloy A588 Steel, Add	55.05	
For Each Additional Top Copes >2, Add	1.85	
For Structural Tees, WT, MT Or ST, Deduct	-82.84	
For Skewed Or Sloped Connections, Add	33.03	
05 12 23 00-0271 LF W24 x 84 A992/A36 Structural Beam Or Girder	250.99	74.75
For Hot Dip Galvanizing, Add	47.50	
For High Strength Low Alloy A572-50 Steel, Add	22.59	
For High Strength Low Alloy A588 Steel, Add	50.20	
For Each Additional Top Copes >2, Add	1.71	
For Structural Tees, WT, MT Or ST, Deduct	-75.87	
For Skewed Or Sloped Connections, Add	30.12	
05 12 23 00-0272 LF W24 x 76 A992/A36 Structural Beam Or Girder	238.83	74.20
For Hot Dip Galvanizing, Add	44.28	
For High Strength Low Alloy A572-50 Steel, Add	21.49	
For High Strength Low Alloy A588 Steel, Add	47.77	
For Each Additional Top Copes >2, Add	1.60	
For Structural Tees, WT, MT Or ST, Deduct	-71.70	
For Skewed Or Sloped Connections, Add	28.66	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0273	LF	W24 x 68 A992/A36 Structural Beam Or Girder	223.51	73.77
		For Hot Dip Galvanizing, Add	40.18	
		For High Strength Low Alloy A572-50 Steel, Add	20.12	
		For High Strength Low Alloy A588 Steel, Add	44.70	
		For Each Additional Top Copes >2, Add	1.45	
		For Structural Tees, WT, MT Or ST, Deduct	-66.42	
		For Skewed Or Sloped Connections, Add	26.82	
05 12 23 00-0274	LF	W24 x 62 A992/A36 Structural Beam Or Girder	215.49	73.35
		For Hot Dip Galvanizing, Add	38.08	
		For High Strength Low Alloy A572-50 Steel, Add	19.39	
		For High Strength Low Alloy A588 Steel, Add	43.10	
		For Each Additional Top Copes >2, Add	1.37	
		For Structural Tees, WT, MT Or ST, Deduct	-63.68	
		For Skewed Or Sloped Connections, Add	25.86	
05 12 23 00-0275	LF	W24 x 55 A992/A36 Structural Beam Or Girder	204.53	73.07
		For Hot Dip Galvanizing, Add	35.15	
		For High Strength Low Alloy A572-50 Steel, Add	18.41	
		For High Strength Low Alloy A588 Steel, Add	40.91	
		For Each Additional Top Copes >2, Add	1.27	
		For Structural Tees, WT, MT Or ST, Deduct	-59.91	
		For Skewed Or Sloped Connections, Add	24.54	
05 12 23 00-0276	LF	W21 x 147 A992/A36 Structural Beam Or Girder	364.41	74.87
		For Hot Dip Galvanizing, Add	78.96	
		For High Strength Low Alloy A572-50 Steel, Add	32.80	
		For High Strength Low Alloy A588 Steel, Add	72.88	
		For Each Additional Top Copes >2, Add	2.85	
		For Structural Tees, WT, MT Or ST, Deduct	-115.56	
		For Skewed Or Sloped Connections, Add	43.73	
05 12 23 00-0277	LF	W21 x 132 A992/A36 Structural Beam Or Girder	331.81	71.54
		For Hot Dip Galvanizing, Add	70.90	
		For High Strength Low Alloy A572-50 Steel, Add	29.86	
		For High Strength Low Alloy A588 Steel, Add	66.36	
		For Each Additional Top Copes >2, Add	2.56	
		For Structural Tees, WT, MT Or ST, Deduct	-104.69	
		For Skewed Or Sloped Connections, Add	39.82	
05 12 23 00-0278	LF	W21 x 122 A992/A36 Structural Beam Or Girder	311.17	70.34
		For Hot Dip Galvanizing, Add	65.53	
		For High Strength Low Alloy A572-50 Steel, Add	28.01	
		For High Strength Low Alloy A588 Steel, Add	62.23	
		For Each Additional Top Copes >2, Add	2.36	
		For Structural Tees, WT, MT Or ST, Deduct	-97.66	
		For Skewed Or Sloped Connections, Add	37.34	
05 12 23 00-0279	LF	W21 x 111 A992/A36 Structural Beam Or Girder	287.47	68.07
		For Hot Dip Galvanizing, Add	59.62	
		For High Strength Low Alloy A572-50 Steel, Add	25.87	
		For High Strength Low Alloy A588 Steel, Add	57.49	
		For Each Additional Top Copes >2, Add	2.15	
		For Structural Tees, WT, MT Or ST, Deduct	-89.72	
		For Skewed Or Sloped Connections, Add	34.50	
05 12 23 00-0280	LF	W21 x 101 A992/A36 Structural Beam Or Girder	265.79	65.90
		For Hot Dip Galvanizing, Add	54.25	
		For High Strength Low Alloy A572-50 Steel, Add	23.92	
		For High Strength Low Alloy A588 Steel, Add	53.16	
		For Each Additional Top Copes >2, Add	1.96	
		For Structural Tees, WT, MT Or ST, Deduct	-82.48	
		For Skewed Or Sloped Connections, Add	31.89	
05 12 23 00-0281	LF	W21 x 93 A992/A36 Structural Beam Or Girder	260.67	75.60
		For Hot Dip Galvanizing, Add	49.95	
		For High Strength Low Alloy A572-50 Steel, Add	23.46	
		For High Strength Low Alloy A588 Steel, Add	52.13	
		For Each Additional Top Copes >2, Add	1.80	
		For Structural Tees, WT, MT Or ST, Deduct	-79.14	
		For Skewed Or Sloped Connections, Add	31.28	
05 12 23 00-0282	LF	W21 x 83 A992/A36 Structural Beam Or Girder	246.35	74.75
		For Hot Dip Galvanizing, Add	46.21	
		For High Strength Low Alloy A572-50 Steel, Add	22.17	
		For High Strength Low Alloy A588 Steel, Add	49.27	
		For Each Additional Top Copes >2, Add	1.67	
		For Structural Tees, WT, MT Or ST, Deduct	-74.25	
		For Skewed Or Sloped Connections, Add	29.56	
05 12 23 00-0283	LF	W21 x 73 A992/A36 Structural Beam Or Girder	228.78	74.20
		For Hot Dip Galvanizing, Add	41.53	
		For High Strength Low Alloy A572-50 Steel, Add	20.59	
		For High Strength Low Alloy A588 Steel, Add	45.76	
		For Each Additional Top Copes >2, Add	1.50	
		For Structural Tees, WT, MT Or ST, Deduct	-68.21	
		For Skewed Or Sloped Connections, Add	27.45	
05 12 23 00-0284	LF	W21 x 68 A992/A36 Structural Beam Or Girder	219.93	73.77
		For Hot Dip Galvanizing, Add	39.19	
		For High Strength Low Alloy A572-50 Steel, Add	19.79	
		For High Strength Low Alloy A588 Steel, Add	43.99	
		For Each Additional Top Copes >2, Add	1.41	
		For Structural Tees, WT, MT Or ST, Deduct	-65.17	
		For Skewed Or Sloped Connections, Add	26.39	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0285	LF		W21 x 62 A992/A36 Structural Beam Or Girder	211.91	73.35
			For Hot Dip Galvanizing, Add	37.09	
			For High Strength Low Alloy A572-50 Steel, Add	19.07	
			For High Strength Low Alloy A588 Steel, Add	42.38	
			For Each Additional Top Copes >2, Add	1.34	
			For Structural Tees, WT, MT Or ST, Deduct	-62.43	
			For Skewed Or Sloped Connections, Add	25.43	
05 12 23 00-0286	LF		W21 x 57 A992/A36 Structural Beam Or Girder	204.67	73.20
			For Hot Dip Galvanizing, Add	35.15	
			For High Strength Low Alloy A572-50 Steel, Add	18.42	
			For High Strength Low Alloy A588 Steel, Add	40.93	
			For Each Additional Top Copes >2, Add	1.27	
			For Structural Tees, WT, MT Or ST, Deduct	-59.94	
			For Skewed Or Sloped Connections, Add	24.56	
05 12 23 00-0287	LF		W21 x 50 A992/A36 Structural Beam Or Girder	181.46	63.49
			For Hot Dip Galvanizing, Add	31.53	
			For High Strength Low Alloy A572-50 Steel, Add	16.33	
			For High Strength Low Alloy A588 Steel, Add	36.29	
			For Each Additional Top Copes >2, Add	1.14	
			For Structural Tees, WT, MT Or ST, Deduct	-53.33	
			For Skewed Or Sloped Connections, Add	21.78	
05 12 23 00-0288	LF		W21 x 44 A992/A36 Structural Beam Or Girder	173.04	63.21
			For Hot Dip Galvanizing, Add	29.30	
			For High Strength Low Alloy A572-50 Steel, Add	15.57	
			For High Strength Low Alloy A588 Steel, Add	34.61	
			For Each Additional Top Copes >2, Add	1.06	
			For Structural Tees, WT, MT Or ST, Deduct	-50.45	
			For Skewed Or Sloped Connections, Add	20.76	
05 12 23 00-0289	LF		W18 x 119 A992/A36 Structural Beam Or Girder	302.59	70.09
			For Hot Dip Galvanizing, Add	63.22	
			For High Strength Low Alloy A572-50 Steel, Add	27.23	
			For High Strength Low Alloy A588 Steel, Add	60.52	
			For Each Additional Top Copes >2, Add	2.28	
			For Structural Tees, WT, MT Or ST, Deduct	-94.69	
			For Skewed Or Sloped Connections, Add	36.31	
05 12 23 00-0290	LF		W18 x 106 A992/A36 Structural Beam Or Girder	273.78	66.43
			For Hot Dip Galvanizing, Add	56.31	
			For High Strength Low Alloy A572-50 Steel, Add	24.64	
			For High Strength Low Alloy A588 Steel, Add	54.76	
			For Each Additional Top Copes >2, Add	2.03	
			For Structural Tees, WT, MT Or ST, Deduct	-85.20	
			For Skewed Or Sloped Connections, Add	32.85	
05 12 23 00-0291	LF		W18 x 97 A992/A36 Structural Beam Or Girder	266.51	75.60
			For Hot Dip Galvanizing, Add	51.53	
			For High Strength Low Alloy A572-50 Steel, Add	23.99	
			For High Strength Low Alloy A588 Steel, Add	53.30	
			For Each Additional Top Copes >2, Add	1.86	
			For Structural Tees, WT, MT Or ST, Deduct	-81.16	
			For Skewed Or Sloped Connections, Add	31.98	
05 12 23 00-0292	LF		W18 x 86 A992/A36 Structural Beam Or Girder	250.07	74.90
			For Hot Dip Galvanizing, Add	47.21	
			For High Strength Low Alloy A572-50 Steel, Add	22.51	
			For High Strength Low Alloy A588 Steel, Add	50.01	
			For Each Additional Top Copes >2, Add	1.70	
			For Structural Tees, WT, MT Or ST, Deduct	-75.53	
			For Skewed Or Sloped Connections, Add	30.01	
05 12 23 00-0293	LF		W18 x 76 A992/A36 Structural Beam Or Girder	235.24	74.20
			For Hot Dip Galvanizing, Add	43.28	
			For High Strength Low Alloy A572-50 Steel, Add	21.17	
			For High Strength Low Alloy A588 Steel, Add	47.05	
			For Each Additional Top Copes >2, Add	1.56	
			For Structural Tees, WT, MT Or ST, Deduct	-70.45	
			For Skewed Or Sloped Connections, Add	28.23	
05 12 23 00-0294	LF		W18 x 71 A992/A36 Structural Beam Or Girder	224.42	74.05
			For Hot Dip Galvanizing, Add	40.36	
			For High Strength Low Alloy A572-50 Steel, Add	20.20	
			For High Strength Low Alloy A588 Steel, Add	44.88	
			For Each Additional Top Copes >2, Add	1.45	
			For Structural Tees, WT, MT Or ST, Deduct	-66.70	
			For Skewed Or Sloped Connections, Add	26.93	
05 12 23 00-0295	LF		W18 x 65 A992/A36 Structural Beam Or Girder	213.88	73.77
			For Hot Dip Galvanizing, Add	37.55	
			For High Strength Low Alloy A572-50 Steel, Add	19.25	
			For High Strength Low Alloy A588 Steel, Add	42.78	
			For Each Additional Top Copes >2, Add	1.35	
			For Structural Tees, WT, MT Or ST, Deduct	-63.08	
			For Skewed Or Sloped Connections, Add	25.67	
05 12 23 00-0296	LF		W18 x 60 A992/A36 Structural Beam Or Girder	204.39	73.20
			For Hot Dip Galvanizing, Add	35.04	
			For High Strength Low Alloy A572-50 Steel, Add	18.40	
			For High Strength Low Alloy A588 Steel, Add	40.88	
			For Each Additional Top Copes >2, Add	1.26	
			For Structural Tees, WT, MT Or ST, Deduct	-59.82	
			For Skewed Or Sloped Connections, Add	24.53	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0297 LF W18 x 55 A992/A36 Structural Beam Or Girder	194.84	73.07
For Hot Dip Galvanizing, Add	32.46	
For High Strength Low Alloy A572-50 Steel, Add	17.54	
For High Strength Low Alloy A588 Steel, Add	38.97	
For Each Additional Top Copes >2, Add	1.17	
For Structural Tees, WT, MT Or ST, Deduct	-56.52	
For Skewed Or Sloped Connections, Add	23.38	
05 12 23 00-0298 LF W18 x 50 A992/A36 Structural Beam Or Girder	175.56	63.49
For Hot Dip Galvanizing, Add	29.89	
For High Strength Low Alloy A572-50 Steel, Add	15.80	
For High Strength Low Alloy A588 Steel, Add	35.11	
For Each Additional Top Copes >2, Add	1.08	
For Structural Tees, WT, MT Or ST, Deduct	-51.27	
For Skewed Or Sloped Connections, Add	21.07	
05 12 23 00-0299 LF W18 x 46 A992/A36 Structural Beam Or Girder	168.12	63.35
For Hot Dip Galvanizing, Add	27.90	
For High Strength Low Alloy A572-50 Steel, Add	15.13	
For High Strength Low Alloy A588 Steel, Add	33.62	
For Each Additional Top Copes >2, Add	1.01	
For Structural Tees, WT, MT Or ST, Deduct	-48.71	
For Skewed Or Sloped Connections, Add	20.17	
05 12 23 00-0300 LF W18 x 40 A992/A36 Structural Beam Or Girder	147.09	54.06
For Hot Dip Galvanizing, Add	24.80	
For High Strength Low Alloy A572-50 Steel, Add	13.24	
For High Strength Low Alloy A588 Steel, Add	29.42	
For Each Additional Top Copes >2, Add	0.89	
For Structural Tees, WT, MT Or ST, Deduct	-42.82	
For Skewed Or Sloped Connections, Add	17.65	
05 12 23 00-0301 LF W18 x 35 A992/A36 Structural Beam Or Girder	137.75	53.92
For Hot Dip Galvanizing, Add	22.29	
For High Strength Low Alloy A572-50 Steel, Add	12.40	
For High Strength Low Alloy A588 Steel, Add	27.55	
For Each Additional Top Copes >2, Add	0.80	
For Structural Tees, WT, MT Or ST, Deduct	-39.60	
For Skewed Or Sloped Connections, Add	16.53	
05 12 23 00-0302 LF W16 x 100 A992/A36 Structural Beam Or Girder	251.99	49.13
For Hot Dip Galvanizing, Add	55.39	
For High Strength Low Alloy A572-50 Steel, Add	22.68	
For High Strength Low Alloy A588 Steel, Add	50.40	
For Each Additional Top Copes >2, Add	2.00	
For Structural Tees, WT, MT Or ST, Deduct	-80.34	
For Skewed Or Sloped Connections, Add	30.24	
05 12 23 00-0303 LF W16 x 89 A992/A36 Structural Beam Or Girder	230.91	48.29
For Hot Dip Galvanizing, Add	49.78	
For High Strength Low Alloy A572-50 Steel, Add	20.78	
For High Strength Low Alloy A588 Steel, Add	46.18	
For Each Additional Top Copes >2, Add	1.79	
For Structural Tees, WT, MT Or ST, Deduct	-73.09	
For Skewed Or Sloped Connections, Add	27.71	
05 12 23 00-0304 LF W16 x 77 A992/A36 Structural Beam Or Girder	208.29	47.72
For Hot Dip Galvanizing, Add	43.70	
For High Strength Low Alloy A572-50 Steel, Add	18.75	
For High Strength Low Alloy A588 Steel, Add	41.66	
For Each Additional Top Copes >2, Add	1.57	
For Structural Tees, WT, MT Or ST, Deduct	-65.28	
For Skewed Or Sloped Connections, Add	24.99	
05 12 23 00-0305 LF W16 x 67 A992/A36 Structural Beam Or Girder	189.03	47.02
For Hot Dip Galvanizing, Add	38.55	
For High Strength Low Alloy A572-50 Steel, Add	17.01	
For High Strength Low Alloy A588 Steel, Add	37.81	
For Each Additional Top Copes >2, Add	1.39	
For Structural Tees, WT, MT Or ST, Deduct	-58.64	
For Skewed Or Sloped Connections, Add	22.68	
05 12 23 00-0306 LF W16 x 57 A992/A36 Structural Beam Or Girder	169.99	46.31
For Hot Dip Galvanizing, Add	33.46	
For High Strength Low Alloy A572-50 Steel, Add	15.30	
For High Strength Low Alloy A588 Steel, Add	34.00	
For Each Additional Top Copes >2, Add	1.21	
For Structural Tees, WT, MT Or ST, Deduct	-52.08	
For Skewed Or Sloped Connections, Add	20.40	
05 12 23 00-0307 LF W16 x 50 A992/A36 Structural Beam Or Girder	156.70	45.89
For Hot Dip Galvanizing, Add	29.89	
For High Strength Low Alloy A572-50 Steel, Add	14.10	
For High Strength Low Alloy A588 Steel, Add	31.34	
For Each Additional Top Copes >2, Add	1.08	
For Structural Tees, WT, MT Or ST, Deduct	-47.50	
For Skewed Or Sloped Connections, Add	18.80	
05 12 23 00-0308 LF W16 x 45 A992/A36 Structural Beam Or Girder	147.35	45.61
For Hot Dip Galvanizing, Add	27.38	
For High Strength Low Alloy A572-50 Steel, Add	13.26	
For High Strength Low Alloy A588 Steel, Add	29.47	
For Each Additional Top Copes >2, Add	0.99	
For Structural Tees, WT, MT Or ST, Deduct	-44.27	
For Skewed Or Sloped Connections, Add	17.68	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0309	LF		W16 x 40 A992/A36 Structural Beam Or Girder	137.66	45.19
			For Hot Dip Galvanizing, Add	24.80	
			For High Strength Low Alloy A572-50 Steel, Add	12.39	
			For High Strength Low Alloy A588 Steel, Add	27.53	
			For Each Additional Top Copes >2, Add	0.89	
			For Structural Tees, WT, MT Or ST, Deduct	-40.94	
			For Skewed Or Sloped Connections, Add	16.52	
05 12 23 00-0310	LF		W16 x 36 A992/A36 Structural Beam Or Girder	130.08	44.91
			For Hot Dip Galvanizing, Add	22.81	
			For High Strength Low Alloy A572-50 Steel, Add	11.71	
			For High Strength Low Alloy A588 Steel, Add	26.02	
			For Each Additional Top Copes >2, Add	0.82	
			For Structural Tees, WT, MT Or ST, Deduct	-38.35	
			For Skewed Or Sloped Connections, Add	15.61	
05 12 23 00-0311	LF		W16 x 31 A992/A36 Structural Beam Or Girder	111.08	35.76
			For Hot Dip Galvanizing, Add	20.24	
			For High Strength Low Alloy A572-50 Steel, Add	10.00	
			For High Strength Low Alloy A588 Steel, Add	22.22	
			For Each Additional Top Copes >2, Add	0.73	
			For Structural Tees, WT, MT Or ST, Deduct	-33.16	
			For Skewed Or Sloped Connections, Add	13.33	
05 12 23 00-0312	LF		W16 x 26 A992/A36 Structural Beam Or Girder	98.88	35.33
			For Hot Dip Galvanizing, Add	16.97	
			For High Strength Low Alloy A572-50 Steel, Add	8.90	
			For High Strength Low Alloy A588 Steel, Add	19.78	
			For Each Additional Top Copes >2, Add	0.61	
			For Structural Tees, WT, MT Or ST, Deduct	-28.95	
			For Skewed Or Sloped Connections, Add	11.87	
05 12 23 00-0313	LF		W14 x 99 A992/A36 Structural Beam Or Girder	240.66	40.26
			For Hot Dip Galvanizing, Add	54.87	
			For High Strength Low Alloy A572-50 Steel, Add	21.66	
			For High Strength Low Alloy A588 Steel, Add	48.13	
			For Each Additional Top Copes >2, Add	1.98	
			For Structural Tees, WT, MT Or ST, Deduct	-77.79	
			For Skewed Or Sloped Connections, Add	28.88	
05 12 23 00-0314	LF		W14 x 90 A992/A36 Structural Beam Or Girder	223.51	39.56
			For Hot Dip Galvanizing, Add	50.31	
			For High Strength Low Alloy A572-50 Steel, Add	20.12	
			For High Strength Low Alloy A588 Steel, Add	44.70	
			For Each Additional Top Copes >2, Add	1.81	
			For Structural Tees, WT, MT Or ST, Deduct	-71.89	
			For Skewed Or Sloped Connections, Add	26.82	
05 12 23 00-0315	LF		W14 x 82 A992/A36 Structural Beam Or Girder	208.19	39.14
			For Hot Dip Galvanizing, Add	46.21	
			For High Strength Low Alloy A572-50 Steel, Add	18.74	
			For High Strength Low Alloy A588 Steel, Add	41.64	
			For Each Additional Top Copes >2, Add	1.67	
			For Structural Tees, WT, MT Or ST, Deduct	-66.62	
			For Skewed Or Sloped Connections, Add	24.98	
05 12 23 00-0316	LF		W14 x 74 A992/A36 Structural Beam Or Girder	192.89	38.57
			For Hot Dip Galvanizing, Add	42.12	
			For High Strength Low Alloy A572-50 Steel, Add	17.36	
			For High Strength Low Alloy A588 Steel, Add	38.58	
			For Each Additional Top Copes >2, Add	1.52	
			For Structural Tees, WT, MT Or ST, Deduct	-61.34	
			For Skewed Or Sloped Connections, Add	23.15	
05 12 23 00-0317	LF		W14 x 68 A992/A36 Structural Beam Or Girder	181.49	38.15
			For Hot Dip Galvanizing, Add	39.07	
			For High Strength Low Alloy A572-50 Steel, Add	16.33	
			For High Strength Low Alloy A588 Steel, Add	36.30	
			For Each Additional Top Copes >2, Add	1.41	
			For Structural Tees, WT, MT Or ST, Deduct	-57.42	
			For Skewed Or Sloped Connections, Add	21.78	
05 12 23 00-0318	LF		W14 x 61 A992/A36 Structural Beam Or Girder	168.21	37.73
			For Hot Dip Galvanizing, Add	35.51	
			For High Strength Low Alloy A572-50 Steel, Add	15.14	
			For High Strength Low Alloy A588 Steel, Add	33.64	
			For Each Additional Top Copes >2, Add	1.28	
			For Structural Tees, WT, MT Or ST, Deduct	-52.83	
			For Skewed Or Sloped Connections, Add	20.19	
05 12 23 00-0319	LF		W14 x 53 A992/A36 Structural Beam Or Girder	153.10	37.17
			For Hot Dip Galvanizing, Add	31.47	
			For High Strength Low Alloy A572-50 Steel, Add	13.78	
			For High Strength Low Alloy A588 Steel, Add	30.62	
			For Each Additional Top Copes >2, Add	1.13	
			For Structural Tees, WT, MT Or ST, Deduct	-47.63	
			For Skewed Or Sloped Connections, Add	18.37	
05 12 23 00-0320	LF		W14 x 48 A992/A36 Structural Beam Or Girder	143.41	36.74
			For Hot Dip Galvanizing, Add	28.90	
			For High Strength Low Alloy A572-50 Steel, Add	12.91	
			For High Strength Low Alloy A588 Steel, Add	28.68	
			For Each Additional Top Copes >2, Add	1.04	
			For Structural Tees, WT, MT Or ST, Deduct	-44.30	
			For Skewed Or Sloped Connections, Add	17.21	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0321 LF W14 x 43 A992/A36 Structural Beam Or Girder	133.85	36.61
For Hot Dip Galvanizing, Add	26.32	
For High Strength Low Alloy A572-50 Steel, Add	12.05	
For High Strength Low Alloy A588 Steel, Add	26.77	
For Each Additional Top Copes >2, Add	0.95	
For Structural Tees, WT, MT Or ST, Deduct	-41.00	
For Skewed Or Sloped Connections, Add	16.06	
05 12 23 00-0322 LF W14 x 38 A992/A36 Structural Beam Or Girder	124.36	36.33
For Hot Dip Galvanizing, Add	23.81	
For High Strength Low Alloy A572-50 Steel, Add	11.19	
For High Strength Low Alloy A588 Steel, Add	24.87	
For Each Additional Top Copes >2, Add	0.86	
For Structural Tees, WT, MT Or ST, Deduct	-37.74	
For Skewed Or Sloped Connections, Add	14.92	
05 12 23 00-0323 LF W14 x 34 A992/A36 Structural Beam Or Girder	116.70	35.90
For Hot Dip Galvanizing, Add	21.76	
For High Strength Low Alloy A572-50 Steel, Add	10.50	
For High Strength Low Alloy A588 Steel, Add	23.34	
For Each Additional Top Copes >2, Add	0.78	
For Structural Tees, WT, MT Or ST, Deduct	-35.10	
For Skewed Or Sloped Connections, Add	14.00	
05 12 23 00-0324 LF W14 x 30 A992/A36 Structural Beam Or Girder	109.05	35.76
For Hot Dip Galvanizing, Add	19.71	
For High Strength Low Alloy A572-50 Steel, Add	9.81	
For High Strength Low Alloy A588 Steel, Add	21.81	
For Each Additional Top Copes >2, Add	0.71	
For Structural Tees, WT, MT Or ST, Deduct	-32.47	
For Skewed Or Sloped Connections, Add	13.09	
05 12 23 00-0325 LF W14 x 26 A992/A36 Structural Beam Or Girder	101.39	35.33
For Hot Dip Galvanizing, Add	17.67	
For High Strength Low Alloy A572-50 Steel, Add	9.13	
For High Strength Low Alloy A588 Steel, Add	20.28	
For Each Additional Top Copes >2, Add	0.64	
For Structural Tees, WT, MT Or ST, Deduct	-29.83	
For Skewed Or Sloped Connections, Add	12.17	
05 12 23 00-0326 LF W14 x 22 A992/A36 Structural Beam Or Girder	93.93	35.20
For Hot Dip Galvanizing, Add	15.68	
For High Strength Low Alloy A572-50 Steel, Add	8.45	
For High Strength Low Alloy A588 Steel, Add	18.79	
For Each Additional Top Copes >2, Add	0.56	
For Structural Tees, WT, MT Or ST, Deduct	-27.26	
For Skewed Or Sloped Connections, Add	11.27	
05 12 23 00-0327 LF W12 x 87 A992/A36 Structural Beam Or Girder	217.89	39.42
For Hot Dip Galvanizing, Add	48.78	
For High Strength Low Alloy A572-50 Steel, Add	19.61	
For High Strength Low Alloy A588 Steel, Add	43.58	
For Each Additional Top Copes >2, Add	1.76	
For Structural Tees, WT, MT Or ST, Deduct	-69.95	
For Skewed Or Sloped Connections, Add	26.15	
05 12 23 00-0328 LF W12 x 79 A992/A36 Structural Beam Or Girder	202.57	38.85
For Hot Dip Galvanizing, Add	44.69	
For High Strength Low Alloy A572-50 Steel, Add	18.23	
For High Strength Low Alloy A588 Steel, Add	40.51	
For Each Additional Top Copes >2, Add	1.61	
For Structural Tees, WT, MT Or ST, Deduct	-64.67	
For Skewed Or Sloped Connections, Add	24.31	
05 12 23 00-0329 LF W12 x 72 A992/A36 Structural Beam Or Girder	189.14	38.44
For Hot Dip Galvanizing, Add	41.12	
For High Strength Low Alloy A572-50 Steel, Add	17.02	
For High Strength Low Alloy A588 Steel, Add	37.83	
For Each Additional Top Copes >2, Add	1.48	
For Structural Tees, WT, MT Or ST, Deduct	-60.06	
For Skewed Or Sloped Connections, Add	22.70	
05 12 23 00-0330 LF W12 x 65 A992/A36 Structural Beam Or Girder	175.88	38.01
For Hot Dip Galvanizing, Add	37.55	
For High Strength Low Alloy A572-50 Steel, Add	15.83	
For High Strength Low Alloy A588 Steel, Add	35.18	
For Each Additional Top Copes >2, Add	1.35	
For Structural Tees, WT, MT Or ST, Deduct	-55.48	
For Skewed Or Sloped Connections, Add	21.11	
05 12 23 00-0331 LF W12 x 58 A992/A36 Structural Beam Or Girder	162.45	37.44
For Hot Dip Galvanizing, Add	33.99	
For High Strength Low Alloy A572-50 Steel, Add	14.62	
For High Strength Low Alloy A588 Steel, Add	32.49	
For Each Additional Top Copes >2, Add	1.22	
For Structural Tees, WT, MT Or ST, Deduct	-50.86	
For Skewed Or Sloped Connections, Add	19.49	
05 12 23 00-0332 LF W12 x 53 A992/A36 Structural Beam Or Girder	153.10	37.17
For Hot Dip Galvanizing, Add	31.47	
For High Strength Low Alloy A572-50 Steel, Add	13.78	
For High Strength Low Alloy A588 Steel, Add	30.62	
For Each Additional Top Copes >2, Add	1.13	
For Structural Tees, WT, MT Or ST, Deduct	-47.63	
For Skewed Or Sloped Connections, Add	18.37	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0333	LF		W12 x 50 A992/A36 Structural Beam Or Girder	147.13	37.03
			For Hot Dip Galvanizing, Add	29.89	
			For High Strength Low Alloy A572-50 Steel, Add	13.24	
			For High Strength Low Alloy A588 Steel, Add	29.43	
			For Each Additional Top Copes >2, Add	1.08	
			For Structural Tees, WT, MT Or ST, Deduct	-45.58	
			For Skewed Or Sloped Connections, Add	17.66	
05 12 23 00-0334	LF		W12 x 45 A992/A36 Structural Beam Or Girder	137.79	36.74
			For Hot Dip Galvanizing, Add	27.38	
			For High Strength Low Alloy A572-50 Steel, Add	12.40	
			For High Strength Low Alloy A588 Steel, Add	27.56	
			For Each Additional Top Copes >2, Add	0.99	
			For Structural Tees, WT, MT Or ST, Deduct	-42.36	
			For Skewed Or Sloped Connections, Add	16.53	
05 12 23 00-0335	LF		W12 x 40 A992/A36 Structural Beam Or Girder	118.51	27.31
			For Hot Dip Galvanizing, Add	24.80	
			For High Strength Low Alloy A572-50 Steel, Add	10.67	
			For High Strength Low Alloy A588 Steel, Add	23.70	
			For Each Additional Top Copes >2, Add	0.89	
			For Structural Tees, WT, MT Or ST, Deduct	-37.11	
			For Skewed Or Sloped Connections, Add	14.22	
05 12 23 00-0336	LF		W12 x 35 A992/A36 Structural Beam Or Girder	109.17	27.17
			For Hot Dip Galvanizing, Add	22.29	
			For High Strength Low Alloy A572-50 Steel, Add	9.83	
			For High Strength Low Alloy A588 Steel, Add	21.83	
			For Each Additional Top Copes >2, Add	0.80	
			For Structural Tees, WT, MT Or ST, Deduct	-33.88	
			For Skewed Or Sloped Connections, Add	13.10	
05 12 23 00-0337	LF		W12 x 30 A992/A36 Structural Beam Or Girder	99.48	26.75
			For Hot Dip Galvanizing, Add	19.71	
			For High Strength Low Alloy A572-50 Steel, Add	8.95	
			For High Strength Low Alloy A588 Steel, Add	19.90	
			For Each Additional Top Copes >2, Add	0.71	
			For Structural Tees, WT, MT Or ST, Deduct	-30.55	
			For Skewed Or Sloped Connections, Add	11.94	
05 12 23 00-0338	LF		W12 x 26 A992/A36 Structural Beam Or Girder	91.82	26.46
			For Hot Dip Galvanizing, Add	17.67	
			For High Strength Low Alloy A572-50 Steel, Add	8.26	
			For High Strength Low Alloy A588 Steel, Add	18.36	
			For Each Additional Top Copes >2, Add	0.64	
			For Structural Tees, WT, MT Or ST, Deduct	-27.91	
			For Skewed Or Sloped Connections, Add	11.02	
05 12 23 00-0339	LF		W12 x 22 A992/A36 Structural Beam Or Girder	84.36	26.18
			For Hot Dip Galvanizing, Add	15.68	
			For High Strength Low Alloy A572-50 Steel, Add	7.59	
			For High Strength Low Alloy A588 Steel, Add	16.87	
			For Each Additional Top Copes >2, Add	0.56	
			For Structural Tees, WT, MT Or ST, Deduct	-25.35	
			For Skewed Or Sloped Connections, Add	10.12	
05 12 23 00-0340	LF		W12 x 19 A992/A36 Structural Beam Or Girder	78.54	26.04
			For Hot Dip Galvanizing, Add	14.10	
			For High Strength Low Alloy A572-50 Steel, Add	7.07	
			For High Strength Low Alloy A588 Steel, Add	15.71	
			For Each Additional Top Copes >2, Add	0.51	
			For Structural Tees, WT, MT Or ST, Deduct	-23.33	
			For Skewed Or Sloped Connections, Add	9.42	
05 12 23 00-0341	LF		W12 x 16 A992/A36 Structural Beam Or Girder	72.78	25.63
			For Hot Dip Galvanizing, Add	12.58	
			For High Strength Low Alloy A572-50 Steel, Add	6.55	
			For High Strength Low Alloy A588 Steel, Add	14.56	
			For Each Additional Top Copes >2, Add	0.45	
			For Structural Tees, WT, MT Or ST, Deduct	-21.35	
			For Skewed Or Sloped Connections, Add	8.73	
05 12 23 00-0342	LF		W12 x 14 A992/A36 Structural Beam Or Girder	69.05	25.63
			For Hot Dip Galvanizing, Add	11.58	
			For High Strength Low Alloy A572-50 Steel, Add	6.21	
			For High Strength Low Alloy A588 Steel, Add	13.81	
			For Each Additional Top Copes >2, Add	0.42	
			For Structural Tees, WT, MT Or ST, Deduct	-20.07	
			For Skewed Or Sloped Connections, Add	8.29	
05 12 23 00-0343	LF		W10 x 68 A992/A36 Structural Beam Or Girder	172.49	29.42
			For Hot Dip Galvanizing, Add	39.19	
			For High Strength Low Alloy A572-50 Steel, Add	15.52	
			For High Strength Low Alloy A588 Steel, Add	34.50	
			For Each Additional Top Copes >2, Add	1.41	
			For Structural Tees, WT, MT Or ST, Deduct	-55.68	
			For Skewed Or Sloped Connections, Add	20.70	
05 12 23 00-0344	LF		W10 x 60 A992/A36 Structural Beam Or Girder	157.37	28.86
			For Hot Dip Galvanizing, Add	35.15	
			For High Strength Low Alloy A572-50 Steel, Add	14.16	
			For High Strength Low Alloy A588 Steel, Add	31.47	
			For Each Additional Top Copes >2, Add	1.27	
			For Structural Tees, WT, MT Or ST, Deduct	-50.48	
			For Skewed Or Sloped Connections, Add	18.88	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0345 LF W10 x 54 A992/A36 Structural Beam Or Girder	145.78	28.30
For Hot Dip Galvanizing, Add	32.05	
For High Strength Low Alloy A572-50 Steel, Add	13.12	
For High Strength Low Alloy A588 Steel, Add	29.16	
For Each Additional Top Copes >2, Add	1.16	
For Structural Tees, WT, MT Or ST, Deduct	-46.48	
For Skewed Or Sloped Connections, Add	17.49	
05 12 23 00-0346 LF W10 x 49 A992/A36 Structural Beam Or Girder	136.30	28.02
For Hot Dip Galvanizing, Add	29.54	
For High Strength Low Alloy A572-50 Steel, Add	12.27	
For High Strength Low Alloy A588 Steel, Add	27.26	
For Each Additional Top Copes >2, Add	1.06	
For Structural Tees, WT, MT Or ST, Deduct	-43.23	
For Skewed Or Sloped Connections, Add	16.36	
05 12 23 00-0347 LF W10 x 45 A992/A36 Structural Beam Or Girder	128.64	27.87
For Hot Dip Galvanizing, Add	27.49	
For High Strength Low Alloy A572-50 Steel, Add	11.58	
For High Strength Low Alloy A588 Steel, Add	25.73	
For Each Additional Top Copes >2, Add	0.99	
For Structural Tees, WT, MT Or ST, Deduct	-40.59	
For Skewed Or Sloped Connections, Add	15.44	
05 12 23 00-0348 LF W10 x 39 A992/A36 Structural Beam Or Girder	117.25	27.31
For Hot Dip Galvanizing, Add	24.45	
For High Strength Low Alloy A572-50 Steel, Add	10.55	
For High Strength Low Alloy A588 Steel, Add	23.45	
For Each Additional Top Copes >2, Add	0.88	
For Structural Tees, WT, MT Or ST, Deduct	-36.67	
For Skewed Or Sloped Connections, Add	14.07	
05 12 23 00-0349 LF W10 x 33 A992/A36 Structural Beam Or Girder	105.87	26.89
For Hot Dip Galvanizing, Add	21.41	
For High Strength Low Alloy A572-50 Steel, Add	9.53	
For High Strength Low Alloy A588 Steel, Add	21.17	
For Each Additional Top Copes >2, Add	0.77	
For Structural Tees, WT, MT Or ST, Deduct	-32.75	
For Skewed Or Sloped Connections, Add	12.70	
05 12 23 00-0350 LF W10 x 30 A992/A36 Structural Beam Or Girder	100.03	26.75
For Hot Dip Galvanizing, Add	19.83	
For High Strength Low Alloy A572-50 Steel, Add	9.00	
For High Strength Low Alloy A588 Steel, Add	20.01	
For Each Additional Top Copes >2, Add	0.71	
For Structural Tees, WT, MT Or ST, Deduct	-30.73	
For Skewed Or Sloped Connections, Add	12.00	
05 12 23 00-0351 LF W10 x 26 A992/A36 Structural Beam Or Girder	92.59	26.61
For Hot Dip Galvanizing, Add	17.84	
For High Strength Low Alloy A572-50 Steel, Add	8.33	
For High Strength Low Alloy A588 Steel, Add	18.52	
For Each Additional Top Copes >2, Add	0.64	
For Structural Tees, WT, MT Or ST, Deduct	-28.16	
For Skewed Or Sloped Connections, Add	11.11	
05 12 23 00-0352 LF W10 x 22 A992/A36 Structural Beam Or Girder	84.78	26.18
For Hot Dip Galvanizing, Add	15.79	
For High Strength Low Alloy A572-50 Steel, Add	7.63	
For High Strength Low Alloy A588 Steel, Add	16.96	
For Each Additional Top Copes >2, Add	0.57	
For Structural Tees, WT, MT Or ST, Deduct	-25.49	
For Skewed Or Sloped Connections, Add	10.17	
05 12 23 00-0353 LF W10 x 19 A992/A36 Structural Beam Or Girder	79.17	26.04
For Hot Dip Galvanizing, Add	14.27	
For High Strength Low Alloy A572-50 Steel, Add	7.13	
For High Strength Low Alloy A588 Steel, Add	15.83	
For Each Additional Top Copes >2, Add	0.51	
For Structural Tees, WT, MT Or ST, Deduct	-23.55	
For Skewed Or Sloped Connections, Add	9.50	
05 12 23 00-0354 LF W10 x 17 A992/A36 Structural Beam Or Girder	75.23	25.90
For Hot Dip Galvanizing, Add	13.22	
For High Strength Low Alloy A572-50 Steel, Add	6.77	
For High Strength Low Alloy A588 Steel, Add	15.05	
For Each Additional Top Copes >2, Add	0.48	
For Structural Tees, WT, MT Or ST, Deduct	-22.19	
For Skewed Or Sloped Connections, Add	9.03	
05 12 23 00-0355 LF W10 x 15 A992/A36 Structural Beam Or Girder	71.51	25.63
For Hot Dip Galvanizing, Add	12.22	
For High Strength Low Alloy A572-50 Steel, Add	6.44	
For High Strength Low Alloy A588 Steel, Add	14.30	
For Each Additional Top Copes >2, Add	0.44	
For Structural Tees, WT, MT Or ST, Deduct	-20.91	
For Skewed Or Sloped Connections, Add	8.58	
05 12 23 00-0356 LF W10 x 12 A992/A36 Structural Beam Or Girder	65.88	25.63
For Hot Dip Galvanizing, Add	10.70	
For High Strength Low Alloy A572-50 Steel, Add	5.93	
For High Strength Low Alloy A588 Steel, Add	13.18	
For Each Additional Top Copes >2, Add	0.39	
For Structural Tees, WT, MT Or ST, Deduct	-18.96	
For Skewed Or Sloped Connections, Add	7.91	



Metals			05	05
Structural Metal Framing			05 10	
Structural Steel Framing			05 12	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0357	LF	W8 x 35 A992/A36 Structural Beam Or Girder	109.59	27.17
		For Hot Dip Galvanizing, Add	22.40	
		For High Strength Low Alloy A572-50 Steel, Add	9.86	
		For High Strength Low Alloy A588 Steel, Add	21.92	
		For Each Additional Top Copes >2, Add	0.81	
		For Structural Tees, WT, MT Or ST, Deduct	-34.03	
		For Skewed Or Sloped Connections, Add	13.15	
05 12 23 00-0358	LF	W8 x 31 A992/A36 Structural Beam Or Girder	101.92	26.75
		For Hot Dip Galvanizing, Add	20.35	
		For High Strength Low Alloy A572-50 Steel, Add	9.17	
		For High Strength Low Alloy A588 Steel, Add	20.38	
		For Each Additional Top Copes >2, Add	0.73	
		For Structural Tees, WT, MT Or ST, Deduct	-31.39	
		For Skewed Or Sloped Connections, Add	12.23	
05 12 23 00-0359	LF	W8 x 28 A992/A36 Structural Beam Or Girder	94.76	25.20
		For Hot Dip Galvanizing, Add	18.83	
		For High Strength Low Alloy A572-50 Steel, Add	8.53	
		For High Strength Low Alloy A588 Steel, Add	18.95	
		For Each Additional Top Copes >2, Add	0.68	
		For Structural Tees, WT, MT Or ST, Deduct	-29.13	
		For Skewed Or Sloped Connections, Add	11.37	
05 12 23 00-0360	LF	W8 x 24 A992/A36 Structural Beam Or Girder	86.35	23.65
		For Hot Dip Galvanizing, Add	16.97	
		For High Strength Low Alloy A572-50 Steel, Add	7.77	
		For High Strength Low Alloy A588 Steel, Add	17.27	
		For Each Additional Top Copes >2, Add	0.61	
		For Structural Tees, WT, MT Or ST, Deduct	-26.44	
		For Skewed Or Sloped Connections, Add	10.36	
05 12 23 00-0361	LF	W8 x 21 A992/A36 Structural Beam Or Girder	80.35	21.96
		For Hot Dip Galvanizing, Add	15.77	
		For High Strength Low Alloy A572-50 Steel, Add	7.23	
		For High Strength Low Alloy A588 Steel, Add	16.07	
		For Each Additional Top Copes >2, Add	0.57	
		For Structural Tees, WT, MT Or ST, Deduct	-24.60	
		For Skewed Or Sloped Connections, Add	9.64	
05 12 23 00-0362	LF	W8 x 18 A992/A36 Structural Beam Or Girder	70.21	20.41
		For Hot Dip Galvanizing, Add	13.43	
		For High Strength Low Alloy A572-50 Steel, Add	6.32	
		For High Strength Low Alloy A588 Steel, Add	14.04	
		For Each Additional Top Copes >2, Add	0.48	
		For Structural Tees, WT, MT Or ST, Deduct	-21.30	
		For Skewed Or Sloped Connections, Add	8.43	
05 12 23 00-0363	LF	W8 x 10 A992/A36 Structural Beam Or Girder	41.32	14.64
		For Hot Dip Galvanizing, Add	7.17	
		For High Strength Low Alloy A572-50 Steel, Add	3.72	
		For High Strength Low Alloy A588 Steel, Add	8.26	
		For Each Additional Top Copes >2, Add	0.26	
		For Structural Tees, WT, MT Or ST, Deduct	-12.14	
		For Skewed Or Sloped Connections, Add	4.96	
05 12 23 00-0364	LF	W6 x 9 A992/A36 Structural Beam Or Girder	38.18	11.96
		For Hot Dip Galvanizing, Add	7.08	
		For High Strength Low Alloy A572-50 Steel, Add	3.44	
		For High Strength Low Alloy A588 Steel, Add	7.64	
		For Each Additional Top Copes >2, Add	0.26	
		For Structural Tees, WT, MT Or ST, Deduct	-11.46	
		For Skewed Or Sloped Connections, Add	4.58	
05 12 23 00-0365		A992/A36 Structural Steel, M Shapes (05 12 23 00-0147)		
		Note: Includes material delivery and erection.		
05 12 23 00-0366	LF	M14 x 18 A992/A36 Structural Steel.....	72.77	18.47
		For Hot Dip Galvanizing, Add	14.73	
		For High Strength Low Alloy A572-50 Steel, Add	6.55	
		For High Strength Low Alloy A588 Grade B Steel, Add	14.55	
05 12 23 00-0367	LF	M12 x 11.8 A992/A36 Structural Steel.....	52.21	16.33
		For Hot Dip Galvanizing, Add	9.66	
		For High Strength Low Alloy A572-50 Steel, Add	4.70	
		For High Strength Low Alloy A588 Grade B Steel, Add	10.44	
05 12 23 00-0368	LF	M10 x 9 A992/A36 Structural Steel.....	40.52	13.11
		For Hot Dip Galvanizing, Add	7.36	
		For High Strength Low Alloy A572-50 Steel, Add	3.65	
		For High Strength Low Alloy A588 Grade B Steel, Add	8.10	
05 12 23 00-0369	LF	M8 x 6.5 A992/A36 Structural Steel.....	29.26	9.47
		For Hot Dip Galvanizing, Add	5.32	
		For High Strength Low Alloy A572-50 Steel, Add	2.63	
		For High Strength Low Alloy A588 Grade B Steel, Add	5.85	
05 12 23 00-0370	LF	M6 x 20 A992/A36 Structural Steel.....	82.91	22.67
		For Hot Dip Galvanizing, Add	16.37	
		For High Strength Low Alloy A572-50 Steel, Add	7.46	
		For High Strength Low Alloy A588 Grade B Steel, Add	16.58	
05 12 23 00-0371	LF	M6 x 4.4 A992/A36 Structural Steel.....	19.79	6.40
		For Hot Dip Galvanizing, Add	3.59	
		For High Strength Low Alloy A572-50 Steel, Add	1.78	
		For High Strength Low Alloy A588 Grade B Steel, Add	3.96	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0372	LF		M5 x 18.9 A992/A36 Structural Steel	79.86	22.67
			For Hot Dip Galvanizing, Add	15.44	
			For High Strength Low Alloy A572-50 Steel, Add	7.19	
			For High Strength Low Alloy A588 Grade B Steel, Add	15.97	
05 12 23 00-0373	LF		M4 x 13 A992/A36 Structural Steel	65.60	22.24
			For Hot Dip Galvanizing, Add	11.64	
			For High Strength Low Alloy A572-50 Steel, Add	5.90	
			For High Strength Low Alloy A588 Grade B Steel, Add	13.12	
05 12 23 00-0374 A992/A36 Structural Steel, S Shapes (05 12 23 00-0147)					
Note: Includes material delivery and erection.					
05 12 23 00-0375	LF		S24 x 121 A992/A36 Structural Steel	437.72	93.54
			For Hot Dip Galvanizing, Add	93.80	
			For High Strength Low Alloy A572-50 Steel, Add	39.39	
			For High Strength Low Alloy A588 Grade B Steel, Add	87.54	
05 12 23 00-0376	LF		S24 x 106 A992/A36 Structural Steel	388.06	86.26
			For Hot Dip Galvanizing, Add	82.17	
			For High Strength Low Alloy A572-50 Steel, Add	34.93	
			For High Strength Low Alloy A588 Grade B Steel, Add	77.61	
05 12 23 00-0377	LF		S24 x 100 A992/A36 Structural Steel	370.67	85.65
			For Hot Dip Galvanizing, Add	77.52	
			For High Strength Low Alloy A572-50 Steel, Add	33.36	
			For High Strength Low Alloy A588 Grade B Steel, Add	74.13	
05 12 23 00-0378	LF		S24 x 90 A992/A36 Structural Steel	337.93	81.14
			For Hot Dip Galvanizing, Add	69.77	
			For High Strength Low Alloy A572-50 Steel, Add	30.41	
			For High Strength Low Alloy A588 Grade B Steel, Add	67.59	
05 12 23 00-0379	LF		S24 x 80 A992/A36 Structural Steel	304.41	75.93
			For Hot Dip Galvanizing, Add	62.01	
			For High Strength Low Alloy A572-50 Steel, Add	27.40	
			For High Strength Low Alloy A588 Grade B Steel, Add	60.88	
05 12 23 00-0380	LF		S20 x 96 A992/A36 Structural Steel	355.84	82.22
			For Hot Dip Galvanizing, Add	74.42	
			For High Strength Low Alloy A572-50 Steel, Add	32.03	
			For High Strength Low Alloy A588 Grade B Steel, Add	71.17	
05 12 23 00-0381	LF		S20 x 86 A992/A36 Structural Steel	322.90	77.54
			For Hot Dip Galvanizing, Add	66.66	
			For High Strength Low Alloy A572-50 Steel, Add	29.06	
			For High Strength Low Alloy A588 Grade B Steel, Add	64.58	
05 12 23 00-0382	LF		S20 x 75 A992/A36 Structural Steel	285.39	71.18
			For Hot Dip Galvanizing, Add	58.14	
			For High Strength Low Alloy A572-50 Steel, Add	25.69	
			For High Strength Low Alloy A588 Grade B Steel, Add	57.08	
05 12 23 00-0383	LF		S20 x 66 A992/A36 Structural Steel	254.67	65.93
			For Hot Dip Galvanizing, Add	51.16	
			For High Strength Low Alloy A572-50 Steel, Add	22.92	
			For High Strength Low Alloy A588 Grade B Steel, Add	50.93	
05 12 23 00-0384	LF		S18 x 70 A992/A36 Structural Steel	270.10	69.93
			For Hot Dip Galvanizing, Add	54.26	
			For High Strength Low Alloy A572-50 Steel, Add	24.31	
			For High Strength Low Alloy A588 Grade B Steel, Add	54.02	
05 12 23 00-0385	LF		S18 x 54.7 A992/A36 Structural Steel	214.14	57.53
			For Hot Dip Galvanizing, Add	42.40	
			For High Strength Low Alloy A572-50 Steel, Add	19.27	
			For High Strength Low Alloy A588 Grade B Steel, Add	42.83	
05 12 23 00-0386	LF		S15 x 50 A992/A36 Structural Steel	198.68	55.35
			For Hot Dip Galvanizing, Add	38.76	
			For High Strength Low Alloy A572-50 Steel, Add	17.88	
			For High Strength Low Alloy A588 Grade B Steel, Add	39.74	
05 12 23 00-0387	LF		S15 x 42.9 A992/A36 Structural Steel	173.13	49.99
			For Hot Dip Galvanizing, Add	33.26	
			For High Strength Low Alloy A572-50 Steel, Add	15.58	
			For High Strength Low Alloy A588 Grade B Steel, Add	34.63	
05 12 23 00-0388	LF		S12 x 50 A992/A36 Structural Steel	195.72	52.59
			For Hot Dip Galvanizing, Add	38.76	
			For High Strength Low Alloy A572-50 Steel, Add	17.61	
			For High Strength Low Alloy A588 Grade B Steel, Add	39.14	
05 12 23 00-0389	LF		S12 x 40.8 A992/A36 Structural Steel	162.12	45.17
			For Hot Dip Galvanizing, Add	31.63	
			For High Strength Low Alloy A572-50 Steel, Add	14.59	
			For High Strength Low Alloy A588 Grade B Steel, Add	32.42	
05 12 23 00-0390	LF		S12 x 35 A992/A36 Structural Steel	141.25	40.78
			For Hot Dip Galvanizing, Add	27.13	
			For High Strength Low Alloy A572-50 Steel, Add	12.71	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.25	
05 12 23 00-0391	LF		S12 x 31.8 A992/A36 Structural Steel	130.42	39.00
			For Hot Dip Galvanizing, Add	24.65	
			For High Strength Low Alloy A572-50 Steel, Add	11.74	
			For High Strength Low Alloy A588 Grade B Steel, Add	26.08	
05 12 23 00-0392	LF		S10 x 35 A992/A36 Structural Steel	143.54	42.93
			For Hot Dip Galvanizing, Add	27.13	
			For High Strength Low Alloy A572-50 Steel, Add	12.92	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.71	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 12 23 00-0393	LF S10 x 25.4 A992/A36 Structural Steel	105.92		32.79
	For Hot Dip Galvanizing, Add	19.69		
	For High Strength Low Alloy A572-50 Steel, Add	9.53		
	For High Strength Low Alloy A588 Grade B Steel, Add	21.18		
05 12 23 00-0394	LF S8 x 23 A992/A36 Structural Steel	95.92		29.69
	For Hot Dip Galvanizing, Add	17.83		
	For High Strength Low Alloy A572-50 Steel, Add	8.63		
	For High Strength Low Alloy A588 Grade B Steel, Add	19.18		
05 12 23 00-0395	LF S8 x 18.4 A992/A36 Structural Steel	78.07		25.01
	For Hot Dip Galvanizing, Add	14.26		
	For High Strength Low Alloy A572-50 Steel, Add	7.03		
	For High Strength Low Alloy A588 Grade B Steel, Add	15.61		
05 12 23 00-0396	LF S7 x 20 A992/A36 Structural Steel	84.85		27.18
	For Hot Dip Galvanizing, Add	15.50		
	For High Strength Low Alloy A572-50 Steel, Add	7.64		
	For High Strength Low Alloy A588 Grade B Steel, Add	16.97		
05 12 23 00-0397	LF S7 x 15.3 A992/A36 Structural Steel	66.07		21.89
	For Hot Dip Galvanizing, Add	11.86		
	For High Strength Low Alloy A572-50 Steel, Add	5.95		
	For High Strength Low Alloy A588 Grade B Steel, Add	13.21		
05 12 23 00-0398	LF S6 x 17.25 A992/A36 Structural Steel	73.54		23.77
	For Hot Dip Galvanizing, Add	13.37		
	For High Strength Low Alloy A572-50 Steel, Add	6.62		
	For High Strength Low Alloy A588 Grade B Steel, Add	14.71		
05 12 23 00-0399	LF S6 x 12.5 A992/A36 Structural Steel	63.03		21.96
	For Hot Dip Galvanizing, Add	10.97		
	For High Strength Low Alloy A572-50 Steel, Add	5.67		
	For High Strength Low Alloy A588 Grade B Steel, Add	12.61		
05 12 23 00-0400	LF S5 x 14.75 A992/A36 Structural Steel	67.12		22.39
	For Hot Dip Galvanizing, Add	12.02		
	For High Strength Low Alloy A572-50 Steel, Add	6.04		
	For High Strength Low Alloy A588 Grade B Steel, Add	13.42		
05 12 23 00-0401	LF S5 x 10 A992/A36 Structural Steel	57.00		21.82
	For Hot Dip Galvanizing, Add	9.33		
	For High Strength Low Alloy A572-50 Steel, Add	5.13		
	For High Strength Low Alloy A588 Grade B Steel, Add	11.40		
05 12 23 00-0402	LF S4 x 9.5 A992/A36 Structural Steel	55.44		21.82
	For Hot Dip Galvanizing, Add	8.90		
	For High Strength Low Alloy A572-50 Steel, Add	4.99		
	For High Strength Low Alloy A588 Grade B Steel, Add	11.09		
05 12 23 00-0403	LF S4 x 7.7 A992/A36 Structural Steel	51.83		21.82
	For Hot Dip Galvanizing, Add	7.94		
	For High Strength Low Alloy A572-50 Steel, Add	4.66		
	For High Strength Low Alloy A588 Grade B Steel, Add	10.37		
05 12 23 00-0404	LF S3 x 7.5 A992/A36 Structural Steel	51.48		21.82
	For Hot Dip Galvanizing, Add	7.84		
	For High Strength Low Alloy A572-50 Steel, Add	4.63		
	For High Strength Low Alloy A588 Grade B Steel, Add	10.30		
05 12 23 00-0405	LF S3 x 5.7 A992/A36 Structural Steel	47.18		21.68
	For Hot Dip Galvanizing, Add	6.68		
	For High Strength Low Alloy A572-50 Steel, Add	4.25		
	For High Strength Low Alloy A588 Grade B Steel, Add	9.44		
05 12 23 00-0406 A992/A36 Structural Steel, HP Shapes (05 12 23 00-0147)				
Note: Includes material delivery and erection.				
05 12 23 00-0407	LF HP14 x 117 A992/A36 Structural Steel	269.60		27.71
	For Hot Dip Galvanizing, Add	66.62		
	For High Strength Low Alloy A572-50 Steel, Add	24.26		
	For High Strength Low Alloy A588 Grade B Steel, Add	53.92		
05 12 23 00-0408	LF HP14 x 102 A992/A36 Structural Steel	235.92		25.79
	For Hot Dip Galvanizing, Add	57.84		
	For High Strength Low Alloy A572-50 Steel, Add	21.23		
	For High Strength Low Alloy A588 Grade B Steel, Add	47.18		
05 12 23 00-0409	LF HP14 x 89 A992/A36 Structural Steel	210.19		24.19
	For Hot Dip Galvanizing, Add	51.17		
	For High Strength Low Alloy A572-50 Steel, Add	18.92		
	For High Strength Low Alloy A588 Grade B Steel, Add	42.04		
05 12 23 00-0410	LF HP14 x 73 A992/A36 Structural Steel	174.01		22.80
	For Hot Dip Galvanizing, Add	41.55		
	For High Strength Low Alloy A572-50 Steel, Add	15.66		
	For High Strength Low Alloy A588 Grade B Steel, Add	34.80		
05 12 23 00-0411	LF HP13 x 100 A992/A36 Structural Steel	231.29		25.28
	For Hot Dip Galvanizing, Add	56.70		
	For High Strength Low Alloy A572-50 Steel, Add	20.82		
	For High Strength Low Alloy A588 Grade B Steel, Add	46.26		
05 12 23 00-0412	LF HP13 x 87 A992/A36 Structural Steel	205.47		23.65
	For Hot Dip Galvanizing, Add	50.02		
	For High Strength Low Alloy A572-50 Steel, Add	18.49		
	For High Strength Low Alloy A588 Grade B Steel, Add	41.09		
05 12 23 00-0413	LF HP13 x 73 A992/A36 Structural Steel	174.01		22.80
	For Hot Dip Galvanizing, Add	41.55		
	For High Strength Low Alloy A572-50 Steel, Add	15.66		
	For High Strength Low Alloy A588 Grade B Steel, Add	34.80		

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 12 23 00-0414	LF	HP13 x 60 A992/A36 Structural Steel.....	147.43		21.85
		For Hot Dip Galvanizing, Add	34.45		
		For High Strength Low Alloy A572-50 Steel, Add	13.27		
		For High Strength Low Alloy A588 Grade B Steel, Add	29.49		
05 12 23 00-0415	LF	HP12 x 84 A992/A36 Structural Steel.....	193.83		24.93
		For Hot Dip Galvanizing, Add	46.41		
		For High Strength Low Alloy A572-50 Steel, Add	17.44		
		For High Strength Low Alloy A588 Grade B Steel, Add	38.77		
05 12 23 00-0416	LF	HP12 x 74 A992/A36 Structural Steel.....	171.25		23.52
		For Hot Dip Galvanizing, Add	40.57		
		For High Strength Low Alloy A572-50 Steel, Add	15.41		
		For High Strength Low Alloy A588 Grade B Steel, Add	34.25		
05 12 23 00-0417	LF	HP12 x 63 A992/A36 Structural Steel.....	147.43		21.63
		For Hot Dip Galvanizing, Add	34.51		
		For High Strength Low Alloy A572-50 Steel, Add	13.27		
		For High Strength Low Alloy A588 Grade B Steel, Add	29.49		
05 12 23 00-0418	LF	HP12 x 53 A992/A36 Structural Steel.....	135.17		20.56
		For Hot Dip Galvanizing, Add	31.43		
		For High Strength Low Alloy A572-50 Steel, Add	12.17		
		For High Strength Low Alloy A588 Grade B Steel, Add	27.03		
05 12 23 00-0419	LF	HP10 x 57 A992/A36 Structural Steel.....	142.41		21.10
		For Hot Dip Galvanizing, Add	33.28		
		For High Strength Low Alloy A572-50 Steel, Add	12.82		
		For High Strength Low Alloy A588 Grade B Steel, Add	28.48		
05 12 23 00-0420	LF	HP10 x 42 A992/A36 Structural Steel.....	117.36		19.78
		For Hot Dip Galvanizing, Add	26.71		
		For High Strength Low Alloy A572-50 Steel, Add	10.56		
		For High Strength Low Alloy A588 Grade B Steel, Add	23.47		
05 12 23 00-0421	LF	HP8 x 36 A992/A36 Structural Steel.....	102.05		18.65
		For Hot Dip Galvanizing, Add	22.80		
		For High Strength Low Alloy A572-50 Steel, Add	9.18		
		For High Strength Low Alloy A588 Grade B Steel, Add	20.41		
05 12 23 00-0422		Lightweight Framing Steel Shapes (05 12 23)			
		Note: Includes cutting to length. Excludes fasteners or welds. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.			
05 12 23 00-0423		Angle Iron - L (05 12 23 00-0422)			
05 12 23 00-0424		1/8" Thick (05 12 23 00-0423)			
05 12 23 00-0425	LF	1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	3.09		1.89
		For >100 To 250, Deduct	-0.20		
		For >250 To 500, Deduct	-0.28		
		For >500 To 1,000, Deduct	-0.42		
		For >1,000, Deduct	-0.56		
		For 304 Stainless Steel, Add	1.60		
		For 316 Stainless Steel, Add	1.79		
		For Aluminum, Add	0.10		
		For Galvanized Steel, Add	0.35		
		For High Strength Steel (HSS), Add	0.62		
05 12 23 00-0426	LF	3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	3.57		2.14
		For >100 To 250, Deduct	-0.23		
		For >250 To 500, Deduct	-0.32		
		For >500 To 1,000, Deduct	-0.48		
		For >1,000, Deduct	-0.64		
		For 304 Stainless Steel, Add	2.02		
		For 316 Stainless Steel, Add	2.27		
		For Aluminum, Add	0.13		
		For Galvanized Steel, Add	0.44		
		For High Strength Steel (HSS), Add	0.71		
05 12 23 00-0427	LF	3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	4.03		2.36
		For >100 To 250, Deduct	-0.26		
		For >250 To 500, Deduct	-0.36		
		For >500 To 1,000, Deduct	-0.54		
		For >1,000, Deduct	-0.72		
		For 304 Stainless Steel, Add	2.51		
		For 316 Stainless Steel, Add	2.82		
		For Aluminum, Add	0.16		
		For Galvanized Steel, Add	0.55		
		For High Strength Steel (HSS), Add	0.81		
05 12 23 00-0428	LF	1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	4.53		2.63
		For >100 To 250, Deduct	-0.29		
		For >250 To 500, Deduct	-0.40		
		For >500 To 1,000, Deduct	-0.60		
		For >1,000, Deduct	-0.80		
		For 304 Stainless Steel, Add	2.91		
		For 316 Stainless Steel, Add	3.26		
		For Aluminum, Add	0.18		
		For Galvanized Steel, Add	0.63		
		For High Strength Steel (HSS), Add	0.91		



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0429	LF		1" x 1" x 1/8" Thick, Plain Steel Angle Iron	4.98	2.84
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.44	
			For >500 To 1,000, Deduct	-0.66	
			For >1,000, Deduct	-0.88	
			For 304 Stainless Steel, Add	3.39	
			For 316 Stainless Steel, Add	3.81	
			For Aluminum, Add	0.21	
			For Galvanized Steel, Add	0.74	
			For High Strength Steel (HSS), Add	1.00	
05 12 23 00-0430	LF		1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron	5.95	3.34
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.52	
			For >500 To 1,000, Deduct	-0.78	
			For >1,000, Deduct	-1.04	
			For 304 Stainless Steel, Add	4.28	
			For 316 Stainless Steel, Add	4.80	
			For Aluminum, Add	0.27	
			For Galvanized Steel, Add	0.93	
			For High Strength Steel (HSS), Add	1.19	
05 12 23 00-0431	LF		1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron	5.95	3.34
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.52	
			For >500 To 1,000, Deduct	-0.78	
			For >1,000, Deduct	-1.04	
			For 304 Stainless Steel, Add	4.28	
			For 316 Stainless Steel, Add	4.80	
			For Aluminum, Add	0.27	
			For Galvanized Steel, Add	0.93	
			For High Strength Steel (HSS), Add	1.19	
05 12 23 00-0432	LF		1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	6.59	3.59
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.57	
			For >500 To 1,000, Deduct	-0.85	
			For >1,000, Deduct	-1.14	
			For 304 Stainless Steel, Add	5.13	
			For 316 Stainless Steel, Add	5.76	
			For Aluminum, Add	0.32	
			For Galvanized Steel, Add	1.12	
			For High Strength Steel (HSS), Add	1.32	
05 12 23 00-0433	LF		1-3/4" x 1-3/4" x 1/8" Thick, Plain Steel Angle Iron	7.09	3.72
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.60	
			For >500 To 1,000, Deduct	-0.90	
			For >1,000, Deduct	-1.20	
			For 304 Stainless Steel, Add	6.10	
			For 316 Stainless Steel, Add	6.85	
			For Aluminum, Add	0.39	
			For Galvanized Steel, Add	1.33	
			For High Strength Steel (HSS), Add	1.42	
05 12 23 00-0434	LF		2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	7.09	3.72
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.60	
			For >500 To 1,000, Deduct	-0.90	
			For >1,000, Deduct	-1.20	
			For 304 Stainless Steel, Add	6.10	
			For 316 Stainless Steel, Add	6.85	
			For Aluminum, Add	0.39	
			For Galvanized Steel, Add	1.33	
			For High Strength Steel (HSS), Add	1.42	
05 12 23 00-0435	LF		2" x 2" x 1/8" Thick, Plain Steel Angle Iron	7.57	3.83
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.63	
			For >500 To 1,000, Deduct	-0.95	
			For >1,000, Deduct	-1.27	
			For 304 Stainless Steel, Add	6.98	
			For 316 Stainless Steel, Add	7.84	
			For Aluminum, Add	0.44	
			For Galvanized Steel, Add	1.52	
			For High Strength Steel (HSS), Add	1.51	
05 12 23 00-0436			3/16" Thick (05 12 23 00-0423)		
05 12 23 00-0437	LF		1" x 1" x 3/16" Thick, Plain Steel Angle Iron	5.72	3.00
			For >100 To 250, Deduct	-0.34	
			For >250 To 500, Deduct	-0.49	
			For >500 To 1,000, Deduct	-0.73	
			For >1,000, Deduct	-0.97	
			For 304 Stainless Steel, Add	4.90	
			For 316 Stainless Steel, Add	5.50	
			For Aluminum, Add	0.31	
			For Galvanized Steel, Add	1.07	
			For High Strength Steel (HSS), Add	1.14	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0438	LF		1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron	6.90	3.54
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.58	
			For >500 To 1,000, Deduct	-0.87	
			For >1,000, Deduct	-1.16	
			For 304 Stainless Steel, Add	6.24	
			For 316 Stainless Steel, Add	7.01	
			For Aluminum, Add	0.39	
			For Galvanized Steel, Add	1.36	
			For High Strength Steel (HSS), Add	1.38	
05 12 23 00-0439	LF		1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron	6.90	3.54
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.58	
			For >500 To 1,000, Deduct	-0.87	
			For >1,000, Deduct	-1.16	
			For 304 Stainless Steel, Add	6.24	
			For 316 Stainless Steel, Add	7.01	
			For Aluminum, Add	0.39	
			For Galvanized Steel, Add	1.36	
			For High Strength Steel (HSS), Add	1.38	
05 12 23 00-0440	LF		1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	7.72	3.79
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.64	
			For >500 To 1,000, Deduct	-0.96	
			For >1,000, Deduct	-1.28	
			For 304 Stainless Steel, Add	7.61	
			For 316 Stainless Steel, Add	8.54	
			For Aluminum, Add	0.48	
			For Galvanized Steel, Add	1.66	
			For High Strength Steel (HSS), Add	1.54	
05 12 23 00-0441	LF		1-3/4" x 1-3/4" x 3/16" Thick, Plain Steel Angle Iron	8.37	3.92
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.68	
			For >500 To 1,000, Deduct	-1.02	
			For >1,000, Deduct	-1.36	
			For 304 Stainless Steel, Add	8.98	
			For 316 Stainless Steel, Add	10.08	
			For Aluminum, Add	0.57	
			For Galvanized Steel, Add	1.95	
			For High Strength Steel (HSS), Add	1.67	
05 12 23 00-0442	LF		2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	8.37	3.92
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.68	
			For >500 To 1,000, Deduct	-1.02	
			For >1,000, Deduct	-1.36	
			For 304 Stainless Steel, Add	8.98	
			For 316 Stainless Steel, Add	10.08	
			For Aluminum, Add	0.57	
			For Galvanized Steel, Add	1.95	
			For High Strength Steel (HSS), Add	1.67	
05 12 23 00-0443	LF		2" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.03	4.06
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.72	
			For >500 To 1,000, Deduct	-1.08	
			For >1,000, Deduct	-1.44	
			For 304 Stainless Steel, Add	10.35	
			For 316 Stainless Steel, Add	11.62	
			For Aluminum, Add	0.65	
			For Galvanized Steel, Add	2.25	
			For High Strength Steel (HSS), Add	1.81	
05 12 23 00-0444	LF		2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.89	4.34
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.78	
			For >500 To 1,000, Deduct	-1.18	
			For >1,000, Deduct	-1.57	
			For 304 Stainless Steel, Add	11.66	
			For 316 Stainless Steel, Add	13.09	
			For Aluminum, Add	0.74	
			For Galvanized Steel, Add	2.54	
			For High Strength Steel (HSS), Add	1.98	
05 12 23 00-0445	LF		2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	10.78	4.66
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.85	
			For >500 To 1,000, Deduct	-1.27	
			For >1,000, Deduct	-1.70	
			For 304 Stainless Steel, Add	13.02	
			For 316 Stainless Steel, Add	14.62	
			For Aluminum, Add	0.82	
			For Galvanized Steel, Add	2.83	
			For High Strength Steel (HSS), Add	2.16	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0446	LF		3" x 2" x 3/16" Thick, Plain Steel Angle Iron	10.77	4.66
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.85	
			For >500 To 1,000, Deduct	-1.27	
			For >1,000, Deduct	-1.70	
			For 304 Stainless Steel, Add	13.00	
			For 316 Stainless Steel, Add	14.59	
			For Aluminum, Add	0.82	
			For Galvanized Steel, Add	2.83	
			For High Strength Steel (HSS), Add	2.15	
05 12 23 00-0447	LF		3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	11.90	5.14
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-0.94	
			For >500 To 1,000, Deduct	-1.41	
			For >1,000, Deduct	-1.88	
			For 304 Stainless Steel, Add	14.36	
			For 316 Stainless Steel, Add	16.13	
			For Aluminum, Add	0.91	
			For Galvanized Steel, Add	3.12	
			For High Strength Steel (HSS), Add	2.38	
05 12 23 00-0448	LF		3" x 3" x 3/16" Thick, Plain Steel Angle Iron	13.02	5.63
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.03	
			For >500 To 1,000, Deduct	-1.54	
			For >1,000, Deduct	-2.05	
			For 304 Stainless Steel, Add	15.70	
			For 316 Stainless Steel, Add	17.63	
			For Aluminum, Add	0.99	
			For Galvanized Steel, Add	3.42	
			For High Strength Steel (HSS), Add	2.60	
05 12 23 00-0449			1/4" Thick (05 12 23 00-0423)		
05 12 23 00-0450	LF		1" x 1" x 1/4" Thick, Plain Steel Angle Iron	6.83	3.47
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.57	
			For >500 To 1,000, Deduct	-0.86	
			For >1,000, Deduct	-1.15	
			For 304 Stainless Steel, Add	6.24	
			For 316 Stainless Steel, Add	7.01	
			For Aluminum, Add	0.39	
			For Galvanized Steel, Add	1.36	
			For High Strength Steel (HSS), Add	1.37	
05 12 23 00-0451	LF		1-1/4" x 1-1/4" x 1/4" Thick, Plain Steel Angle Iron	7.80	3.74
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.64	
			For >500 To 1,000, Deduct	-0.96	
			For >1,000, Deduct	-1.28	
			For 304 Stainless Steel, Add	8.04	
			For 316 Stainless Steel, Add	9.02	
			For Aluminum, Add	0.51	
			For Galvanized Steel, Add	1.75	
			For High Strength Steel (HSS), Add	1.56	
05 12 23 00-0452	LF		1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron	7.80	3.74
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.64	
			For >500 To 1,000, Deduct	-0.96	
			For >1,000, Deduct	-1.28	
			For 304 Stainless Steel, Add	8.04	
			For 316 Stainless Steel, Add	9.02	
			For Aluminum, Add	0.51	
			For Galvanized Steel, Add	1.75	
			For High Strength Steel (HSS), Add	1.56	
05 12 23 00-0453	LF		1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	8.76	3.99
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.70	
			For >500 To 1,000, Deduct	-1.06	
			For >1,000, Deduct	-1.41	
			For 304 Stainless Steel, Add	9.80	
			For 316 Stainless Steel, Add	11.01	
			For Aluminum, Add	0.62	
			For Galvanized Steel, Add	2.13	
			For High Strength Steel (HSS), Add	1.75	
05 12 23 00-0454	LF		1-3/4" x 1-3/4" x 1/4" Thick, Plain Steel Angle Iron	9.63	4.12
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.76	
			For >500 To 1,000, Deduct	-1.14	
			For >1,000, Deduct	-1.51	
			For 304 Stainless Steel, Add	11.74	
			For 316 Stainless Steel, Add	13.18	
			For Aluminum, Add	0.74	
			For Galvanized Steel, Add	2.55	
			For High Strength Steel (HSS), Add	1.93	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0455	LF		2" x 1" x 1/4" Thick, Plain Steel Angle Iron.....	8.54	3.87
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.68	
			For >500 To 1,000, Deduct	-1.02	
			For >1,000, Deduct	-1.36	
			For 304 Stainless Steel, Add	9.89	
			For 316 Stainless Steel, Add	11.10	
			For Aluminum, Add	0.62	
			For Galvanized Steel, Add	2.15	
			For High Strength Steel (HSS), Add	1.71	
05 12 23 00-0456	LF		2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	9.62	4.12
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.76	
			For >500 To 1,000, Deduct	-1.13	
			For >1,000, Deduct	-1.51	
			For 304 Stainless Steel, Add	11.71	
			For 316 Stainless Steel, Add	13.15	
			For Aluminum, Add	0.74	
			For Galvanized Steel, Add	2.55	
			For High Strength Steel (HSS), Add	1.92	
05 12 23 00-0457	LF		2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	10.41	4.26
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.80	
			For >500 To 1,000, Deduct	-1.21	
			For >1,000, Deduct	-1.61	
			For 304 Stainless Steel, Add	13.48	
			For 316 Stainless Steel, Add	15.14	
			For Aluminum, Add	0.85	
			For Galvanized Steel, Add	2.93	
			For High Strength Steel (HSS), Add	2.08	
05 12 23 00-0458	LF		2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron	11.67	4.72
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-0.90	
			For >500 To 1,000, Deduct	-1.35	
			For >1,000, Deduct	-1.80	
			For 304 Stainless Steel, Add	15.33	
			For 316 Stainless Steel, Add	17.22	
			For Aluminum, Add	0.97	
			For Galvanized Steel, Add	3.34	
			For High Strength Steel (HSS), Add	2.33	
05 12 23 00-0459	LF		2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	12.98	5.17
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-0.99	
			For >500 To 1,000, Deduct	-1.49	
			For >1,000, Deduct	-1.99	
			For 304 Stainless Steel, Add	17.33	
			For 316 Stainless Steel, Add	19.46	
			For Aluminum, Add	1.09	
			For Galvanized Steel, Add	3.77	
			For High Strength Steel (HSS), Add	2.60	
05 12 23 00-0460	LF		3" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	12.98	5.17
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-0.99	
			For >500 To 1,000, Deduct	-1.49	
			For >1,000, Deduct	-1.99	
			For 304 Stainless Steel, Add	17.33	
			For 316 Stainless Steel, Add	19.46	
			For Aluminum, Add	1.09	
			For Galvanized Steel, Add	3.77	
			For High Strength Steel (HSS), Add	2.60	
05 12 23 00-0461	LF		3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	14.35	5.74
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.10	
			For >500 To 1,000, Deduct	-1.65	
			For >1,000, Deduct	-2.20	
			For 304 Stainless Steel, Add	19.07	
			For 316 Stainless Steel, Add	21.41	
			For Aluminum, Add	1.20	
			For Galvanized Steel, Add	4.15	
			For High Strength Steel (HSS), Add	2.87	
05 12 23 00-0462	LF		3" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	15.67	6.31
			For >100 To 250, Deduct	-0.81	
			For >250 To 500, Deduct	-1.20	
			For >500 To 1,000, Deduct	-1.81	
			For >1,000, Deduct	-2.41	
			For 304 Stainless Steel, Add	20.69	
			For 316 Stainless Steel, Add	23.23	
			For Aluminum, Add	1.31	
			For Galvanized Steel, Add	4.50	
			For High Strength Steel (HSS), Add	3.13	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0463	LF		3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron	17.04	6.78
			For >100 To 250, Deduct	-0.88	
			For >250 To 500, Deduct	-1.30	
			For >500 To 1,000, Deduct	-1.96	
			For >1,000, Deduct	-2.61	
			For 304 Stainless Steel, Add	22.80	
			For 316 Stainless Steel, Add	25.60	
			For Aluminum, Add	1.44	
			For Galvanized Steel, Add	4.96	
			For High Strength Steel (HSS), Add	3.41	
05 12 23 00-0464	LF		3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	18.06	0.71
			For >100 To 250, Deduct	-0.92	
			For >250 To 500, Deduct	-1.38	
			For >500 To 1,000, Deduct	-2.06	
			For >1,000, Deduct	-2.75	
			For 304 Stainless Steel, Add	24.57	
			For 316 Stainless Steel, Add	27.58	
			For Aluminum, Add	1.55	
			For Galvanized Steel, Add	5.34	
			For High Strength Steel (HSS), Add	3.61	
05 12 23 00-0465	LF		4" x 3" x 1/4" Thick, Plain Steel Angle Iron	18.06	7.08
			For >100 To 250, Deduct	-0.92	
			For >250 To 500, Deduct	-1.38	
			For >500 To 1,000, Deduct	-2.06	
			For >1,000, Deduct	-2.75	
			For 304 Stainless Steel, Add	24.57	
			For 316 Stainless Steel, Add	27.58	
			For Aluminum, Add	1.55	
			For Galvanized Steel, Add	5.34	
			For High Strength Steel (HSS), Add	3.61	
05 12 23 00-0466	LF		4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	19.03	7.38
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.44	
			For >500 To 1,000, Deduct	-2.17	
			For >1,000, Deduct	-2.89	
			For 304 Stainless Steel, Add	26.19	
			For 316 Stainless Steel, Add	29.41	
			For Aluminum, Add	1.65	
			For Galvanized Steel, Add	5.70	
			For High Strength Steel (HSS), Add	3.81	
05 12 23 00-0467	LF		4" x 4" x 1/4" Thick, Plain Steel Angle Iron	20.07	7.70
			For >100 To 250, Deduct	-1.01	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-2.27	
			For >1,000, Deduct	-3.03	
			For 304 Stainless Steel, Add	27.96	
			For 316 Stainless Steel, Add	31.39	
			For Aluminum, Add	1.77	
			For Galvanized Steel, Add	6.08	
			For High Strength Steel (HSS), Add	4.01	
05 12 23 00-0468	LF		5" x 3" x 1/4" Thick, Plain Steel Angle Iron	20.07	7.70
			For >100 To 250, Deduct	-1.01	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-2.27	
			For >1,000, Deduct	-3.03	
			For 304 Stainless Steel, Add	27.96	
			For 316 Stainless Steel, Add	31.39	
			For Aluminum, Add	1.77	
			For Galvanized Steel, Add	6.08	
			For High Strength Steel (HSS), Add	4.01	
05 12 23 00-0469	LF		5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	21.20	8.11
			For >100 To 250, Deduct	-1.07	
			For >250 To 500, Deduct	-1.60	
			For >500 To 1,000, Deduct	-2.40	
			For >1,000, Deduct	-3.20	
			For 304 Stainless Steel, Add	29.58	
			For 316 Stainless Steel, Add	33.22	
			For Aluminum, Add	1.87	
			For Galvanized Steel, Add	6.44	
			For High Strength Steel (HSS), Add	4.24	
05 12 23 00-0470			5/16" Thick (05 12 23 00-0423)		
05 12 23 00-0471	LF		2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron	14.00	5.49
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.07	
			For >500 To 1,000, Deduct	-1.60	
			For >1,000, Deduct	-2.13	
			For 304 Stainless Steel, Add	19.07	
			For 316 Stainless Steel, Add	21.41	
			For Aluminum, Add	1.20	
			For Galvanized Steel, Add	4.15	
			For High Strength Steel (HSS), Add	2.80	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0472	LF		2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	15.18	5.81
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.15	
			For >500 To 1,000, Deduct	-1.72	
			For >1,000, Deduct	-2.29	
			For 304 Stainless Steel, Add	21.18	
			For 316 Stainless Steel, Add	23.78	
			For Aluminum, Add	1.34	
			For Galvanized Steel, Add	4.61	
			For High Strength Steel (HSS), Add	3.04	
05 12 23 00-0473	LF		3" x 2" x 5/16" Thick, Plain Steel Angle Iron.....	15.18	5.81
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.15	
			For >500 To 1,000, Deduct	-1.72	
			For >1,000, Deduct	-2.29	
			For 304 Stainless Steel, Add	21.18	
			For 316 Stainless Steel, Add	23.78	
			For Aluminum, Add	1.34	
			For Galvanized Steel, Add	4.61	
			For High Strength Steel (HSS), Add	3.04	
05 12 23 00-0474	LF		3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	16.82	6.37
			For >100 To 250, Deduct	-0.85	
			For >250 To 500, Deduct	-1.27	
			For >500 To 1,000, Deduct	-1.90	
			For >1,000, Deduct	-2.53	
			For 304 Stainless Steel, Add	23.71	
			For 316 Stainless Steel, Add	26.62	
			For Aluminum, Add	1.50	
			For Galvanized Steel, Add	5.16	
			For High Strength Steel (HSS), Add	3.36	
05 12 23 00-0475	LF		3" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	18.29	6.93
			For >100 To 250, Deduct	-0.92	
			For >250 To 500, Deduct	-1.38	
			For >500 To 1,000, Deduct	-2.06	
			For >1,000, Deduct	-2.75	
			For 304 Stainless Steel, Add	25.82	
			For 316 Stainless Steel, Add	28.99	
			For Aluminum, Add	1.63	
			For Galvanized Steel, Add	5.62	
			For High Strength Steel (HSS), Add	3.66	
05 12 23 00-0476	LF		3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron	19.52	7.28
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.46	
			For >500 To 1,000, Deduct	-2.19	
			For >1,000, Deduct	-2.92	
			For 304 Stainless Steel, Add	27.96	
			For 316 Stainless Steel, Add	31.39	
			For Aluminum, Add	1.77	
			For Galvanized Steel, Add	6.08	
			For High Strength Steel (HSS), Add	3.90	
05 12 23 00-0477	LF		3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	20.85	7.64
			For >100 To 250, Deduct	-1.03	
			For >250 To 500, Deduct	-1.55	
			For >500 To 1,000, Deduct	-2.33	
			For >1,000, Deduct	-3.10	
			For 304 Stainless Steel, Add	30.41	
			For 316 Stainless Steel, Add	34.14	
			For Aluminum, Add	1.92	
			For Galvanized Steel, Add	6.62	
			For High Strength Steel (HSS), Add	4.17	
05 12 23 00-0478	LF		4" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	20.85	7.64
			For >100 To 250, Deduct	-1.03	
			For >250 To 500, Deduct	-1.55	
			For >500 To 1,000, Deduct	-2.33	
			For >1,000, Deduct	-3.10	
			For 304 Stainless Steel, Add	30.41	
			For 316 Stainless Steel, Add	34.14	
			For Aluminum, Add	1.92	
			For Galvanized Steel, Add	6.62	
			For High Strength Steel (HSS), Add	4.17	
05 12 23 00-0479	LF		4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	22.18	8.08
			For >100 To 250, Deduct	-1.09	
			For >250 To 500, Deduct	-1.65	
			For >500 To 1,000, Deduct	-2.47	
			For >1,000, Deduct	-3.30	
			For 304 Stainless Steel, Add	32.52	
			For 316 Stainless Steel, Add	36.51	
			For Aluminum, Add	2.05	
			For Galvanized Steel, Add	7.07	
			For High Strength Steel (HSS), Add	4.44	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0480	LF		4" x 4" x 5/16" Thick, Plain Steel Angle Iron	23.43	8.43
			For >100 To 250, Deduct	-1.15	
			For >250 To 500, Deduct	-1.73	
			For >500 To 1,000, Deduct	-2.60	
			For >1,000, Deduct	-3.47	
			For 304 Stainless Steel, Add	34.74	
			For 316 Stainless Steel, Add	39.01	
			For Aluminum, Add	2.19	
			For Galvanized Steel, Add	7.56	
			For High Strength Steel (HSS), Add	4.69	
05 12 23 00-0481	LF		5" x 3" x 5/16" Thick, Plain Steel Angle Iron	23.43	8.43
			For >100 To 250, Deduct	-1.15	
			For >250 To 500, Deduct	-1.73	
			For >500 To 1,000, Deduct	-2.60	
			For >1,000, Deduct	-3.47	
			For 304 Stainless Steel, Add	34.74	
			For 316 Stainless Steel, Add	39.01	
			For Aluminum, Add	2.19	
			For Galvanized Steel, Add	7.56	
			For High Strength Steel (HSS), Add	4.69	
05 12 23 00-0482	LF		5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	24.62	8.79
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.82	
			For >500 To 1,000, Deduct	-2.73	
			For >1,000, Deduct	-3.63	
			For 304 Stainless Steel, Add	36.77	
			For 316 Stainless Steel, Add	41.28	
			For Aluminum, Add	2.32	
			For Galvanized Steel, Add	8.00	
			For High Strength Steel (HSS), Add	4.92	
05 12 23 00-0483	LF		5" x 5" x 5/16" Thick, Plain Steel Angle Iron	27.52	9.16
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.99	
			For >500 To 1,000, Deduct	-2.98	
			For >1,000, Deduct	-3.97	
			For 304 Stainless Steel, Add	43.63	
			For 316 Stainless Steel, Add	48.99	
			For Aluminum, Add	2.76	
			For Galvanized Steel, Add	9.49	
			For High Strength Steel (HSS), Add	5.50	
05 12 23 00-0484	LF		6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	27.26	9.55
			For >100 To 250, Deduct	-1.32	
			For >250 To 500, Deduct	-2.00	
			For >500 To 1,000, Deduct	-3.00	
			For >1,000, Deduct	-4.00	
			For 304 Stainless Steel, Add	41.41	
			For 316 Stainless Steel, Add	46.50	
			For Aluminum, Add	2.62	
			For Galvanized Steel, Add	9.01	
			For High Strength Steel (HSS), Add	5.45	
05 12 23 00-0485 3/8" Thick (05 12 23 00-0423)					
05 12 23 00-0486	LF		3" x 2" x 3/8" Thick, Plain Steel Angle Iron	16.86	6.08
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.25	
			For >500 To 1,000, Deduct	-1.87	
			For >1,000, Deduct	-2.50	
			For 304 Stainless Steel, Add	24.94	
			For 316 Stainless Steel, Add	28.00	
			For Aluminum, Add	1.58	
			For Galvanized Steel, Add	5.43	
			For High Strength Steel (HSS), Add	3.37	
05 12 23 00-0487	LF		3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron	18.60	6.59
			For >100 To 250, Deduct	-0.90	
			For >250 To 500, Deduct	-1.37	
			For >500 To 1,000, Deduct	-2.05	
			For >1,000, Deduct	-2.74	
			For 304 Stainless Steel, Add	27.96	
			For 316 Stainless Steel, Add	31.39	
			For Aluminum, Add	1.77	
			For Galvanized Steel, Add	6.08	
			For High Strength Steel (HSS), Add	3.72	
05 12 23 00-0488	LF		3" x 3" x 3/8" Thick, Plain Steel Angle Iron	20.13	7.10
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.48	
			For >500 To 1,000, Deduct	-2.22	
			For >1,000, Deduct	-2.96	
			For 304 Stainless Steel, Add	30.41	
			For 316 Stainless Steel, Add	34.14	
			For Aluminum, Add	1.92	
			For Galvanized Steel, Add	6.62	
			For High Strength Steel (HSS), Add	4.03	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0489	LF		3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron	21.47	7.29
			For >100 To 250, Deduct	-1.02	
			For >250 To 500, Deduct	-1.56	
			For >500 To 1,000, Deduct	-2.34	
			For >1,000, Deduct	-3.12	
			For 304 Stainless Steel, Add	33.46	
			For 316 Stainless Steel, Add	37.57	
			For Aluminum, Add	2.11	
			For Galvanized Steel, Add	7.28	
			For High Strength Steel (HSS), Add	4.29	
05 12 23 00-0490	LF		3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	22.85	7.69
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.66	
			For >500 To 1,000, Deduct	-2.48	
			For >1,000, Deduct	-3.31	
			For 304 Stainless Steel, Add	35.91	
			For 316 Stainless Steel, Add	40.32	
			For Aluminum, Add	2.27	
			For Galvanized Steel, Add	7.81	
			For High Strength Steel (HSS), Add	4.57	
05 12 23 00-0491	LF		4" x 3" x 3/8" Thick, Plain Steel Angle Iron	22.85	7.69
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.66	
			For >500 To 1,000, Deduct	-2.48	
			For >1,000, Deduct	-3.31	
			For 304 Stainless Steel, Add	35.91	
			For 316 Stainless Steel, Add	40.32	
			For Aluminum, Add	2.27	
			For Galvanized Steel, Add	7.81	
			For High Strength Steel (HSS), Add	4.57	
05 12 23 00-0492	LF		4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	24.66	8.38
			For >100 To 250, Deduct	-1.18	
			For >250 To 500, Deduct	-1.79	
			For >500 To 1,000, Deduct	-2.69	
			For >1,000, Deduct	-3.58	
			For 304 Stainless Steel, Add	38.45	
			For 316 Stainless Steel, Add	43.17	
			For Aluminum, Add	2.43	
			For Galvanized Steel, Add	8.36	
			For High Strength Steel (HSS), Add	4.93	
05 12 23 00-0493	LF		4" x 4" x 3/8" Thick, Plain Steel Angle Iron	26.03	8.63
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.88	
			For >500 To 1,000, Deduct	-2.81	
			For >1,000, Deduct	-3.75	
			For 304 Stainless Steel, Add	41.41	
			For 316 Stainless Steel, Add	46.50	
			For Aluminum, Add	2.62	
			For Galvanized Steel, Add	9.01	
			For High Strength Steel (HSS), Add	5.21	
05 12 23 00-0494	LF		5" x 3" x 3/8" Thick, Plain Steel Angle Iron	26.49	8.97
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-1.92	
			For >500 To 1,000, Deduct	-2.88	
			For >1,000, Deduct	-3.85	
			For 304 Stainless Steel, Add	41.41	
			For 316 Stainless Steel, Add	46.50	
			For Aluminum, Add	2.62	
			For Galvanized Steel, Add	9.01	
			For High Strength Steel (HSS), Add	5.30	
05 12 23 00-0495	LF		5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	28.31	9.67
			For >100 To 250, Deduct	-1.35	
			For >250 To 500, Deduct	-2.06	
			For >500 To 1,000, Deduct	-3.09	
			For >1,000, Deduct	-4.12	
			For 304 Stainless Steel, Add	43.95	
			For 316 Stainless Steel, Add	49.34	
			For Aluminum, Add	2.78	
			For Galvanized Steel, Add	9.56	
			For High Strength Steel (HSS), Add	5.66	
05 12 23 00-0496	LF		5" x 5" x 3/8" Thick, Plain Steel Angle Iron	33.29	11.26
			For >100 To 250, Deduct	-1.58	
			For >250 To 500, Deduct	-2.42	
			For >500 To 1,000, Deduct	-3.62	
			For >1,000, Deduct	-4.83	
			For 304 Stainless Steel, Add	52.10	
			For 316 Stainless Steel, Add	58.50	
			For Aluminum, Add	3.29	
			For Galvanized Steel, Add	11.33	
			For High Strength Steel (HSS), Add	6.66	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0497	LF		6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	31.30	10.48
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-2.26	
			For >500 To 1,000, Deduct	-3.39	
			For >1,000, Deduct	-4.53	
			For 304 Stainless Steel, Add	49.42	
			For 316 Stainless Steel, Add	55.49	
			For Aluminum, Add	3.12	
			For Galvanized Steel, Add	10.75	
			For High Strength Steel (HSS), Add	6.26	
05 12 23 00-0498	LF		6" x 4" x 3/8" Thick, Plain Steel Angle Iron	33.29	11.26
			For >100 To 250, Deduct	-1.58	
			For >250 To 500, Deduct	-2.42	
			For >500 To 1,000, Deduct	-3.62	
			For >1,000, Deduct	-4.83	
			For 304 Stainless Steel, Add	52.10	
			For 316 Stainless Steel, Add	58.50	
			For Aluminum, Add	3.29	
			For Galvanized Steel, Add	11.33	
			For High Strength Steel (HSS), Add	6.66	
05 12 23 00-0499	LF		6" x 6" x 3/8" Thick, Plain Steel Angle Iron	40.15	13.52
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-2.91	
			For >500 To 1,000, Deduct	-4.36	
			For >1,000, Deduct	-5.82	
			For 304 Stainless Steel, Add	63.10	
			For 316 Stainless Steel, Add	70.85	
			For Aluminum, Add	3.99	
			For Galvanized Steel, Add	13.73	
			For High Strength Steel (HSS), Add	8.03	
05 12 23 00-0500	LF		7" x 4" x 3/8" Thick, Plain Steel Angle Iron	36.74	12.38
			For >100 To 250, Deduct	-1.75	
			For >250 To 500, Deduct	-2.66	
			For >500 To 1,000, Deduct	-4.00	
			For >1,000, Deduct	-5.33	
			For 304 Stainless Steel, Add	57.60	
			For 316 Stainless Steel, Add	64.67	
			For Aluminum, Add	3.64	
			For Galvanized Steel, Add	12.53	
			For High Strength Steel (HSS), Add	7.35	
05 12 23 00-0501			1/2" Thick (05 12 23 00-0423)		
05 12 23 00-0502	LF		3" x 3" x 1/2" Thick, Plain Steel Angle Iron	23.64	7.25
			For >100 To 250, Deduct	-1.07	
			For >250 To 500, Deduct	-1.67	
			For >500 To 1,000, Deduct	-2.50	
			For >1,000, Deduct	-3.33	
			For 304 Stainless Steel, Add	39.81	
			For 316 Stainless Steel, Add	44.70	
			For Aluminum, Add	2.51	
			For Galvanized Steel, Add	8.66	
			For High Strength Steel (HSS), Add	4.73	
05 12 23 00-0503	LF		4" x 3" x 1/2" Thick, Plain Steel Angle Iron	27.91	8.57
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.97	
			For >500 To 1,000, Deduct	-2.95	
			For >1,000, Deduct	-3.93	
			For 304 Stainless Steel, Add	47.03	
			For 316 Stainless Steel, Add	52.80	
			For Aluminum, Add	2.97	
			For Galvanized Steel, Add	10.23	
			For High Strength Steel (HSS), Add	5.58	
05 12 23 00-0504	LF		4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	29.92	9.18
			For >100 To 250, Deduct	-1.36	
			For >250 To 500, Deduct	-2.11	
			For >500 To 1,000, Deduct	-3.16	
			For >1,000, Deduct	-4.22	
			For 304 Stainless Steel, Add	50.39	
			For 316 Stainless Steel, Add	56.58	
			For Aluminum, Add	3.18	
			For Galvanized Steel, Add	10.96	
			For High Strength Steel (HSS), Add	5.98	
05 12 23 00-0505	LF		4" x 4" x 1/2" Thick, Plain Steel Angle Iron	32.19	9.88
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-2.27	
			For >500 To 1,000, Deduct	-3.40	
			For >1,000, Deduct	-4.54	
			For 304 Stainless Steel, Add	54.21	
			For 316 Stainless Steel, Add	60.86	
			For Aluminum, Add	3.42	
			For Galvanized Steel, Add	11.79	
			For High Strength Steel (HSS), Add	6.44	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0506	LF		5" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	32.19	9.88
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-2.27	
			For >500 To 1,000, Deduct	-3.40	
			For >1,000, Deduct	-4.54	
			For 304 Stainless Steel, Add	54.21	
			For 316 Stainless Steel, Add	60.86	
			For Aluminum, Add	3.42	
			For Galvanized Steel, Add	11.79	
			For High Strength Steel (HSS), Add	6.44	
05 12 23 00-0507	LF		5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	34.20	10.50
			For >100 To 250, Deduct	-1.55	
			For >250 To 500, Deduct	-2.41	
			For >500 To 1,000, Deduct	-3.61	
			For >1,000, Deduct	-4.82	
			For 304 Stainless Steel, Add	57.60	
			For 316 Stainless Steel, Add	64.67	
			For Aluminum, Add	3.64	
			For Galvanized Steel, Add	12.53	
			For High Strength Steel (HSS), Add	6.84	
05 12 23 00-0508	LF		5" x 5" x 1/2" Thick, Plain Steel Angle Iron.....	40.74	12.50
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.87	
			For >500 To 1,000, Deduct	-4.31	
			For >1,000, Deduct	-5.74	
			For 304 Stainless Steel, Add	68.60	
			For 316 Stainless Steel, Add	77.02	
			For Aluminum, Add	4.33	
			For Galvanized Steel, Add	14.92	
			For High Strength Steel (HSS), Add	8.15	
05 12 23 00-0509	LF		6" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	40.74	12.50
			For >100 To 250, Deduct	-1.85	
			For >250 To 500, Deduct	-2.87	
			For >500 To 1,000, Deduct	-4.31	
			For >1,000, Deduct	-5.74	
			For 304 Stainless Steel, Add	68.60	
			For 316 Stainless Steel, Add	77.02	
			For Aluminum, Add	4.33	
			For Galvanized Steel, Add	14.92	
			For High Strength Steel (HSS), Add	8.15	
05 12 23 00-0510	LF		6" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	49.28	15.12
			For >100 To 250, Deduct	-2.24	
			For >250 To 500, Deduct	-3.47	
			For >500 To 1,000, Deduct	-5.21	
			For >1,000, Deduct	-6.94	
			For 304 Stainless Steel, Add	82.99	
			For 316 Stainless Steel, Add	93.18	
			For Aluminum, Add	5.24	
			For Galvanized Steel, Add	18.05	
			For High Strength Steel (HSS), Add	9.86	
05 12 23 00-0511	LF		7" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	44.99	13.81
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-3.17	
			For >500 To 1,000, Deduct	-4.75	
			For >1,000, Deduct	-6.34	
			For 304 Stainless Steel, Add	75.78	
			For 316 Stainless Steel, Add	85.09	
			For Aluminum, Add	4.79	
			For Galvanized Steel, Add	16.49	
			For High Strength Steel (HSS), Add	9.00	
05 12 23 00-0512	LF		8" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	49.28	15.12
			For >100 To 250, Deduct	-2.24	
			For >250 To 500, Deduct	-3.47	
			For >500 To 1,000, Deduct	-5.21	
			For >1,000, Deduct	-6.94	
			For 304 Stainless Steel, Add	82.99	
			For 316 Stainless Steel, Add	93.18	
			For Aluminum, Add	5.24	
			For Galvanized Steel, Add	18.05	
			For High Strength Steel (HSS), Add	9.86	
05 12 23 00-0513	LF		8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	57.84	17.75
			For >100 To 250, Deduct	-2.63	
			For >250 To 500, Deduct	-4.08	
			For >500 To 1,000, Deduct	-6.11	
			For >1,000, Deduct	-8.15	
			For 304 Stainless Steel, Add	97.41	
			For 316 Stainless Steel, Add	109.38	
			For Aluminum, Add	6.15	
			For Galvanized Steel, Add	21.19	
			For High Strength Steel (HSS), Add	11.57	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0514	LF		8" x 8" x 1/2" Thick, Plain Steel Angle Iron	66.37	20.36
			For >100 To 250, Deduct	-3.02	
			For >250 To 500, Deduct	-4.68	
			For >500 To 1,000, Deduct	-7.01	
			For >1,000, Deduct	-9.35	
			For 304 Stainless Steel, Add	111.78	
			For 316 Stainless Steel, Add	125.50	
			For Aluminum, Add	7.06	
			For Galvanized Steel, Add	24.32	
			For High Strength Steel (HSS), Add	13.27	
05 12 23 00-0515 5/8" Thick (05 12 23 00-0423)					
05 12 23 00-0516	LF		4" x 4" x 5/8" Thick, Plain Steel Angle Iron	38.42	11.32
			For >100 To 250, Deduct	-1.72	
			For >250 To 500, Deduct	-2.68	
			For >500 To 1,000, Deduct	-4.01	
			For >1,000, Deduct	-5.35	
			For 316 Stainless Steel, Add	74.66	
			For Aluminum, Add	4.20	
			For Galvanized Steel, Add	14.46	
			For High Strength Steel (HSS), Add	7.68	
05 12 23 00-0517	LF		5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron	41.12	12.11
			For >100 To 250, Deduct	-1.84	
			For >250 To 500, Deduct	-2.86	
			For >500 To 1,000, Deduct	-4.30	
			For >1,000, Deduct	-5.73	
			For 316 Stainless Steel, Add	79.90	
			For Aluminum, Add	4.49	
			For Galvanized Steel, Add	15.48	
			For High Strength Steel (HSS), Add	8.22	
05 12 23 00-0518	LF		5" x 5" x 5/8" Thick, Plain Steel Angle Iron	48.93	14.42
			For >100 To 250, Deduct	-2.18	
			For >250 To 500, Deduct	-3.41	
			For >500 To 1,000, Deduct	-5.11	
			For >1,000, Deduct	-6.82	
			For 316 Stainless Steel, Add	95.07	
			For Aluminum, Add	5.35	
			For Galvanized Steel, Add	18.42	
			For High Strength Steel (HSS), Add	9.79	
05 12 23 00-0519	LF		6" x 4" x 5/8" Thick, Plain Steel Angle Iron	48.93	14.42
			For >100 To 250, Deduct	-2.18	
			For >250 To 500, Deduct	-3.41	
			For >500 To 1,000, Deduct	-5.11	
			For >1,000, Deduct	-6.82	
			For 316 Stainless Steel, Add	95.07	
			For Aluminum, Add	5.35	
			For Galvanized Steel, Add	18.42	
			For High Strength Steel (HSS), Add	9.79	
05 12 23 00-0520	LF		6" x 6" x 5/8" Thick, Plain Steel Angle Iron	59.22	17.45
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-4.12	
			For >500 To 1,000, Deduct	-6.19	
			For >1,000, Deduct	-8.25	
			For 316 Stainless Steel, Add	115.07	
			For Aluminum, Add	6.47	
			For Galvanized Steel, Add	22.30	
			For High Strength Steel (HSS), Add	11.84	
05 12 23 00-0521	LF		7" x 4" x 5/8" Thick, Plain Steel Angle Iron	54.08	15.93
			For >100 To 250, Deduct	-2.41	
			For >250 To 500, Deduct	-3.77	
			For >500 To 1,000, Deduct	-5.65	
			For >1,000, Deduct	-7.53	
			For 316 Stainless Steel, Add	105.09	
			For Aluminum, Add	5.91	
			For Galvanized Steel, Add	20.36	
			For High Strength Steel (HSS), Add	10.82	
05 12 23 00-0522	LF		8" x 6" x 5/8" Thick, Plain Steel Angle Iron	69.74	20.55
			For >100 To 250, Deduct	-3.11	
			For >250 To 500, Deduct	-4.86	
			For >500 To 1,000, Deduct	-7.28	
			For >1,000, Deduct	-9.71	
			For 316 Stainless Steel, Add	135.52	
			For Aluminum, Add	7.62	
			For Galvanized Steel, Add	26.26	
			For High Strength Steel (HSS), Add	13.95	
05 12 23 00-0523	LF		8" x 8" x 5/8" Thick, Plain Steel Angle Iron	80.04	23.58
			For >100 To 250, Deduct	-3.57	
			For >250 To 500, Deduct	-5.57	
			For >500 To 1,000, Deduct	-8.36	
			For >1,000, Deduct	-11.15	
			For 316 Stainless Steel, Add	155.52	
			For Aluminum, Add	8.75	
			For Galvanized Steel, Add	30.13	
			For High Strength Steel (HSS), Add	16.01	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0524	3/4" Thick (05 12 23 00-0423)			
05 12 23 00-0525	LF 4" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	44.18		12.51
	For >100 To 250, Deduct	-1.94		
	For >250 To 500, Deduct	-3.04		
	For >500 To 1,000, Deduct	-4.56		
	For >1,000, Deduct	-6.09		
	For 316 Stainless Steel, Add	88.00		
	For Aluminum, Add	4.95		
	For Galvanized Steel, Add	17.05		
	For High Strength Steel (HSS), Add	8.84		
05 12 23 00-0526	LF 5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron	47.27		13.38
	For >100 To 250, Deduct	-2.07		
	For >250 To 500, Deduct	-3.26		
	For >500 To 1,000, Deduct	-4.88		
	For >1,000, Deduct	-6.51		
	For 316 Stainless Steel, Add	94.14		
	For Aluminum, Add	5.30		
	For Galvanized Steel, Add	18.24		
	For High Strength Steel (HSS), Add	9.45		
05 12 23 00-0527	LF 5" x 5" x 3/4" Thick, Plain Steel Angle Iron.....	56.34		15.96
	For >100 To 250, Deduct	-2.47		
	For >250 To 500, Deduct	-3.88		
	For >500 To 1,000, Deduct	-5.82		
	For >1,000, Deduct	-7.76		
	For 316 Stainless Steel, Add	112.22		
	For Aluminum, Add	6.31		
	For Galvanized Steel, Add	21.74		
	For High Strength Steel (HSS), Add	11.27		
05 12 23 00-0528	LF 6" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	56.34		15.96
	For >100 To 250, Deduct	-2.47		
	For >250 To 500, Deduct	-3.88		
	For >500 To 1,000, Deduct	-5.82		
	For >1,000, Deduct	-7.76		
	For 316 Stainless Steel, Add	112.22		
	For Aluminum, Add	6.31		
	For Galvanized Steel, Add	21.74		
	For High Strength Steel (HSS), Add	11.27		
05 12 23 00-0529	LF 6" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	68.52		19.39
	For >100 To 250, Deduct	-3.01		
	For >250 To 500, Deduct	-4.72		
	For >500 To 1,000, Deduct	-7.08		
	For >1,000, Deduct	-9.44		
	For 316 Stainless Steel, Add	136.48		
	For Aluminum, Add	7.68		
	For Galvanized Steel, Add	26.44		
	For High Strength Steel (HSS), Add	13.70		
05 12 23 00-0530	LF 7" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	62.55		17.71
	For >100 To 250, Deduct	-2.74		
	For >250 To 500, Deduct	-4.31		
	For >500 To 1,000, Deduct	-6.46		
	For >1,000, Deduct	-8.62		
	For 316 Stainless Steel, Add	124.58		
	For Aluminum, Add	7.01		
	For Galvanized Steel, Add	24.14		
	For High Strength Steel (HSS), Add	12.51		
05 12 23 00-0531	LF 8" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	68.52		19.39
	For >100 To 250, Deduct	-3.01		
	For >250 To 500, Deduct	-4.72		
	For >500 To 1,000, Deduct	-7.08		
	For >1,000, Deduct	-9.44		
	For 316 Stainless Steel, Add	136.48		
	For Aluminum, Add	7.68		
	For Galvanized Steel, Add	26.44		
	For High Strength Steel (HSS), Add	13.70		
05 12 23 00-0532	LF 8" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	80.71		22.84
	For >100 To 250, Deduct	-3.54		
	For >250 To 500, Deduct	-5.56		
	For >500 To 1,000, Deduct	-8.34		
	For >1,000, Deduct	-11.12		
	For 316 Stainless Steel, Add	160.77		
	For Aluminum, Add	9.04		
	For Galvanized Steel, Add	31.15		
	For High Strength Steel (HSS), Add	16.14		
05 12 23 00-0533	LF 8" x 8" x 3/4" Thick, Plain Steel Angle Iron.....	92.87		26.29
	For >100 To 250, Deduct	-4.07		
	For >250 To 500, Deduct	-6.40		
	For >500 To 1,000, Deduct	-9.59		
	For >1,000, Deduct	-12.79		
	For 316 Stainless Steel, Add	184.99		
	For Aluminum, Add	10.41		
	For Galvanized Steel, Add	35.84		
	For High Strength Steel (HSS), Add	18.57		
05 12 23 00-0534	7/8" Thick (05 12 23 00-0423)			



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0535	LF		5" x 5" x 7/8" Thick, Plain Steel Angle Iron	63.29	17.16
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-4.31	
			For >500 To 1,000, Deduct	-6.46	
			For >1,000, Deduct	-8.62	
			For 316 Stainless Steel, Add	129.31	
			For Aluminum, Add	7.27	
			For Galvanized Steel, Add	25.05	
			For High Strength Steel (HSS), Add	12.66	
05 12 23 00-0536	LF		6" x 4" x 7/8" Thick, Plain Steel Angle Iron	63.29	17.16
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-4.31	
			For >500 To 1,000, Deduct	-6.46	
			For >1,000, Deduct	-8.62	
			For 316 Stainless Steel, Add	129.31	
			For Aluminum, Add	7.27	
			For Galvanized Steel, Add	25.05	
			For High Strength Steel (HSS), Add	12.66	
05 12 23 00-0537	LF		6" x 6" x 7/8" Thick, Plain Steel Angle Iron	77.03	20.89
			For >100 To 250, Deduct	-3.32	
			For >250 To 500, Deduct	-5.24	
			For >500 To 1,000, Deduct	-7.87	
			For >1,000, Deduct	-10.49	
			For 316 Stainless Steel, Add	157.41	
			For Aluminum, Add	8.85	
			For Galvanized Steel, Add	30.50	
			For High Strength Steel (HSS), Add	15.41	
05 12 23 00-0538	LF		8" x 6" x 7/8" Thick, Plain Steel Angle Iron	91.00	24.67
			For >100 To 250, Deduct	-3.92	
			For >250 To 500, Deduct	-6.19	
			For >500 To 1,000, Deduct	-9.29	
			For >1,000, Deduct	-12.39	
			For 316 Stainless Steel, Add	185.95	
			For Aluminum, Add	10.46	
			For Galvanized Steel, Add	36.03	
			For High Strength Steel (HSS), Add	18.20	
05 12 23 00-0539	LF		8" x 8" x 7/8" Thick, Plain Steel Angle Iron	104.71	28.39
			For >100 To 250, Deduct	-4.51	
			For >250 To 500, Deduct	-7.13	
			For >500 To 1,000, Deduct	-10.69	
			For >1,000, Deduct	-14.26	
			For 316 Stainless Steel, Add	213.95	
			For Aluminum, Add	12.03	
			For Galvanized Steel, Add	41.45	
			For High Strength Steel (HSS), Add	20.94	
05 12 23 00-0540			Bar Channel (05 12 23 00-0422)		
05 12 23 00-0541	LF		1" x 1/2" x 1/8" Thick Bar Channel.....	5.41	
			For 304 Stainless Steel, Add	4.62	
			For 316 Stainless Steel, Add	5.18	
			For Aluminum, Add	0.29	
			For Galvanized Steel, Add	1.00	
			For High Strength Steel (HSS), Add	1.08	
05 12 23 00-0542	LF		1-1/4" x 1/2" x 1/8" Thick Bar Channel.....	6.06	
			For 304 Stainless Steel, Add	5.53	
			For 316 Stainless Steel, Add	6.21	
			For Aluminum, Add	0.35	
			For Galvanized Steel, Add	1.20	
			For High Strength Steel (HSS), Add	1.21	
05 12 23 00-0543	LF		1-1/2" x 1/2" x 1/8" Thick Bar Channel.....	6.59	
			For 304 Stainless Steel, Add	6.10	
			For 316 Stainless Steel, Add	6.85	
			For Aluminum, Add	0.39	
			For Galvanized Steel, Add	1.33	
			For High Strength Steel (HSS), Add	1.32	
05 12 23 00-0544	LF		1-1/2" x 3/4" x 1/8" Thick Bar Channel.....	7.56	
			For 304 Stainless Steel, Add	6.36	
			For 316 Stainless Steel, Add	7.14	
			For Aluminum, Add	0.40	
			For Galvanized Steel, Add	1.38	
			For High Strength Steel (HSS), Add	1.51	
05 12 23 00-0545	LF		2" x 1/2" x 1/8" Thick Bar Channel.....	8.07	
			For 304 Stainless Steel, Add	7.81	
			For 316 Stainless Steel, Add	8.77	
			For Aluminum, Add	0.49	
			For Galvanized Steel, Add	1.70	
05 12 23 00-0546	LF		2" x 1" x 1/8" Thick Bar Channel.....	10.68	
			For 304 Stainless Steel, Add	8.72	
			For 316 Stainless Steel, Add	9.79	
			For Aluminum, Add	0.55	
			For Galvanized Steel, Add	1.90	

05 12 23 00-0547 Channels - C (05 12 23 00-0422)

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0548	LF		C2 x 1.78 - 2" Wide Channel.....	8.87	4.70
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.76	
			For >500 To 1,000, Deduct	-1.14	
			For >1,000, Deduct	-1.51	
			For 304 Stainless Steel, Add	7.41	
			For 316 Stainless Steel, Add	8.32	
			For Aluminum, Add	0.47	
			For Galvanized Steel, Add	1.61	
05 12 23 00-0549	LF		C3 x 4.1 - 3" Wide Channel.....	15.10	6.76
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.81	
			For >1,000, Deduct	-2.41	
			For 304 Stainless Steel, Add	17.36	
			For 316 Stainless Steel, Add	19.49	
			For Aluminum, Add	1.10	
			For Galvanized Steel, Add	3.78	
05 12 23 00-0550	LF		C3 x 5 - 3" Wide Channel.....	18.42	8.24
			For >100 To 250, Deduct	-1.01	
			For >250 To 500, Deduct	-1.47	
			For >500 To 1,000, Deduct	-2.21	
			For >1,000, Deduct	-2.94	
			For 304 Stainless Steel, Add	21.18	
			For 316 Stainless Steel, Add	23.78	
			For Aluminum, Add	1.34	
			For Galvanized Steel, Add	4.61	
05 12 23 00-0551	LF		C3 x 6 - 3" Wide Channel.....	22.10	9.89
			For >100 To 250, Deduct	-1.21	
			For >250 To 500, Deduct	-1.76	
			For >500 To 1,000, Deduct	-2.65	
			For >1,000, Deduct	-3.53	
			For 304 Stainless Steel, Add	25.39	
			For 316 Stainless Steel, Add	28.51	
			For Aluminum, Add	1.60	
			For Galvanized Steel, Add	5.52	
05 12 23 00-0552	LF		C4 x 5.4 - 4" Wide Channel.....	18.84	8.11
			For >100 To 250, Deduct	-1.01	
			For >250 To 500, Deduct	-1.48	
			For >500 To 1,000, Deduct	-2.22	
			For >1,000, Deduct	-2.97	
			For 304 Stainless Steel, Add	22.86	
			For 316 Stainless Steel, Add	25.66	
			For Aluminum, Add	1.44	
			For Galvanized Steel, Add	4.97	
05 12 23 00-0553	LF		C4 x 7.25 - 4" Wide Channel.....	25.29	10.89
			For >100 To 250, Deduct	-1.36	
			For >250 To 500, Deduct	-1.99	
			For >500 To 1,000, Deduct	-2.99	
			For >1,000, Deduct	-3.98	
			For 304 Stainless Steel, Add	30.69	
			For 316 Stainless Steel, Add	34.46	
			For Aluminum, Add	1.94	
			For Galvanized Steel, Add	6.68	
05 12 23 00-0554	LF		C5 x 6.7 - 5" Wide Channel.....	22.57	9.45
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.76	
			For >500 To 1,000, Deduct	-2.64	
			For >1,000, Deduct	-3.52	
			For 304 Stainless Steel, Add	28.36	
			For 316 Stainless Steel, Add	31.84	
			For Aluminum, Add	1.79	
			For Galvanized Steel, Add	6.17	
05 12 23 00-0555	LF		C5 x 9 - 5" Wide Channel.....	30.31	12.72
			For >100 To 250, Deduct	-1.60	
			For >250 To 500, Deduct	-2.36	
			For >500 To 1,000, Deduct	-3.54	
			For >1,000, Deduct	-4.73	
			For 304 Stainless Steel, Add	38.10	
			For 316 Stainless Steel, Add	42.78	
			For Aluminum, Add	2.41	
			For Galvanized Steel, Add	8.29	
05 12 23 00-0556	LF		C6 x 8.2 - 6" Wide Channel.....	27.32	11.35
			For >100 To 250, Deduct	-1.44	
			For >250 To 500, Deduct	-2.12	
			For >500 To 1,000, Deduct	-3.18	
			For >1,000, Deduct	-4.25	
			For 304 Stainless Steel, Add	34.71	
			For 316 Stainless Steel, Add	38.98	
			For Aluminum, Add	2.19	
			For Galvanized Steel, Add	7.55	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0557	LF		C6 x 10.5 - 6" Wide Channel	34.98	14.54
			For >100 To 250, Deduct	-1.84	
			For >250 To 500, Deduct	-2.72	
			For >500 To 1,000, Deduct	-4.08	
			For >1,000, Deduct	-5.44	
			For 304 Stainless Steel, Add	44.46	
			For 316 Stainless Steel, Add	49.92	
			For Aluminum, Add	2.81	
			For Galvanized Steel, Add	9.67	
05 12 23 00-0558	LF		C6 x 13 - 6" Wide Channel	43.33	18.00
			For >100 To 250, Deduct	-2.28	
			For >250 To 500, Deduct	-3.37	
			For >500 To 1,000, Deduct	-5.05	
			For >1,000, Deduct	-6.73	
			For 304 Stainless Steel, Add	55.06	
			For 316 Stainless Steel, Add	61.82	
			For Aluminum, Add	3.48	
			For Galvanized Steel, Add	11.98	
05 12 23 00-0559	LF		C7 x 9.8 - 7" Wide Channel	32.58	13.52
			For >100 To 250, Deduct	-1.72	
			For >250 To 500, Deduct	-2.53	
			For >500 To 1,000, Deduct	-3.80	
			For >1,000, Deduct	-5.06	
			For 304 Stainless Steel, Add	41.50	
			For 316 Stainless Steel, Add	46.59	
			For Aluminum, Add	2.62	
			For Galvanized Steel, Add	9.03	
05 12 23 00-0560	LF		C7 x 12.25 - 7" Wide Channel	40.73	16.90
			For >100 To 250, Deduct	-2.14	
			For >250 To 500, Deduct	-3.16	
			For >500 To 1,000, Deduct	-4.74	
			For >1,000, Deduct	-6.33	
			For 304 Stainless Steel, Add	51.87	
			For 316 Stainless Steel, Add	58.24	
			For Aluminum, Add	3.28	
			For Galvanized Steel, Add	11.28	
05 12 23 00-0561	LF		C7 x 14.75 - 7" Wide Channel	49.05	20.34
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-3.81	
			For >500 To 1,000, Deduct	-5.71	
			For >1,000, Deduct	-7.62	
			For 304 Stainless Steel, Add	62.47	
			For 316 Stainless Steel, Add	70.14	
			For Aluminum, Add	3.95	
			For Galvanized Steel, Add	13.59	
05 12 23 00-0562	LF		C8 x 11.5 - 8" Wide Channel	36.92	14.87
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.84	
			For >500 To 1,000, Deduct	-4.26	
			For >1,000, Deduct	-5.68	
			For 304 Stainless Steel, Add	48.71	
			For 316 Stainless Steel, Add	54.69	
			For Aluminum, Add	3.08	
			For Galvanized Steel, Add	10.60	
05 12 23 00-0563	LF		C8 x 13.75 - 8" Wide Channel	44.14	17.79
			For >100 To 250, Deduct	-2.29	
			For >250 To 500, Deduct	-3.39	
			For >500 To 1,000, Deduct	-5.09	
			For >1,000, Deduct	-6.79	
			For 304 Stainless Steel, Add	58.23	
			For 316 Stainless Steel, Add	65.38	
			For Aluminum, Add	3.68	
			For Galvanized Steel, Add	12.67	
05 12 23 00-0564	LF		C8 x 18.75 - 8" Wide Channel	60.18	24.25
			For >100 To 250, Deduct	-3.12	
			For >250 To 500, Deduct	-4.63	
			For >500 To 1,000, Deduct	-6.94	
			For >1,000, Deduct	-9.25	
			For 304 Stainless Steel, Add	79.40	
			For 316 Stainless Steel, Add	89.15	
			For Aluminum, Add	5.01	
			For Galvanized Steel, Add	17.27	
05 12 23 00-0565	LF		C9 x 13.4 - 9" Wide Channel	43.02	17.32
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-3.31	
			For >500 To 1,000, Deduct	-4.96	
			For >1,000, Deduct	-6.61	
			For 304 Stainless Steel, Add	56.74	
			For 316 Stainless Steel, Add	63.71	
			For Aluminum, Add	3.58	
			For Galvanized Steel, Add	12.34	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0566 LF C9 x 15 - 9" Wide Channel.....	48.15	19.39
For >100 To 250, Deduct	-2.50	
For >250 To 500, Deduct	-3.70	
For >500 To 1,000, Deduct	-5.55	
For >1,000, Deduct	-7.40	
For 304 Stainless Steel, Add	63.53	
For 316 Stainless Steel, Add	71.33	
For Aluminum, Add	4.01	
For Galvanized Steel, Add	13.82	
05 12 23 00-0567 LF C9 x 20 - 9" Wide Channel.....	64.21	25.86
For >100 To 250, Deduct	-3.33	
For >250 To 500, Deduct	-4.94	
For >500 To 1,000, Deduct	-7.40	
For >1,000, Deduct	-9.87	
For 304 Stainless Steel, Add	84.70	
For 316 Stainless Steel, Add	95.10	
For Aluminum, Add	5.35	
For Galvanized Steel, Add	18.43	
05 12 23 00-0568 LF C10 x 15.3 - 10" Wide Channel.....	49.10	19.78
For >100 To 250, Deduct	-2.55	
For >250 To 500, Deduct	-3.77	
For >500 To 1,000, Deduct	-5.66	
For >1,000, Deduct	-7.55	
For 304 Stainless Steel, Add	64.78	
For 316 Stainless Steel, Add	72.74	
For Aluminum, Add	4.09	
For Galvanized Steel, Add	14.09	
05 12 23 00-0569 LF C10 x 20 - 10" Wide Channel.....	64.21	25.86
For >100 To 250, Deduct	-3.33	
For >250 To 500, Deduct	-4.94	
For >500 To 1,000, Deduct	-7.40	
For >1,000, Deduct	-9.87	
For 304 Stainless Steel, Add	84.70	
For 316 Stainless Steel, Add	95.10	
For Aluminum, Add	5.35	
For Galvanized Steel, Add	18.43	
05 12 23 00-0570 LF C10 x 25 - 10" Wide Channel.....	80.24	32.32
For >100 To 250, Deduct	-4.16	
For >250 To 500, Deduct	-6.17	
For >500 To 1,000, Deduct	-9.25	
For >1,000, Deduct	-12.33	
For 304 Stainless Steel, Add	105.85	
For 316 Stainless Steel, Add	118.85	
For Aluminum, Add	6.69	
For Galvanized Steel, Add	23.03	
05 12 23 00-0571 LF C10 x 30 - 10" Wide Channel.....	96.29	38.79
For >100 To 250, Deduct	-4.99	
For >250 To 500, Deduct	-7.40	
For >500 To 1,000, Deduct	-11.10	
For >1,000, Deduct	-14.80	
For 304 Stainless Steel, Add	127.02	
For 316 Stainless Steel, Add	142.62	
For Aluminum, Add	8.02	
For Galvanized Steel, Add	27.63	
05 12 23 00-0572 LF C12 x 20.7 - 12" Wide Channel.....	66.45	26.77
For >100 To 250, Deduct	-3.45	
For >250 To 500, Deduct	-5.11	
For >500 To 1,000, Deduct	-7.66	
For >1,000, Deduct	-10.21	
For 304 Stainless Steel, Add	87.67	
For 316 Stainless Steel, Add	98.43	
For Aluminum, Add	5.54	
For Galvanized Steel, Add	19.07	
05 12 23 00-0573 LF C12 x 25 - 12" Wide Channel.....	80.24	32.32
For >100 To 250, Deduct	-4.16	
For >250 To 500, Deduct	-6.17	
For >500 To 1,000, Deduct	-9.25	
For >1,000, Deduct	-12.33	
For 304 Stainless Steel, Add	105.85	
For 316 Stainless Steel, Add	118.85	
For Aluminum, Add	6.69	
For Galvanized Steel, Add	23.03	
05 12 23 00-0574 LF C12 x 30 - 12" Wide Channel.....	96.29	38.79
For >100 To 250, Deduct	-4.99	
For >250 To 500, Deduct	-7.40	
For >500 To 1,000, Deduct	-11.10	
For >1,000, Deduct	-14.80	
For 304 Stainless Steel, Add	127.02	
For 316 Stainless Steel, Add	142.62	
For Aluminum, Add	8.02	
For Galvanized Steel, Add	27.63	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0575	LF		C15 x 33.9 - 15" Wide Channel	108.82	43.84
			For >100 To 250, Deduct	-5.64	
			For >250 To 500, Deduct	-8.36	
			For >500 To 1,000, Deduct	-12.55	
			For >1,000, Deduct	-16.73	
			For 304 Stainless Steel, Add	143.55	
			For 316 Stainless Steel, Add	161.18	
			For Aluminum, Add	9.07	
			For Galvanized Steel, Add	31.23	
05 12 23 00-0576	LF		C15 x 40 - 15" Wide Channel	128.39	51.72
			For >100 To 250, Deduct	-6.66	
			For >250 To 500, Deduct	-9.87	
			For >500 To 1,000, Deduct	-14.80	
			For >1,000, Deduct	-19.74	
			For 304 Stainless Steel, Add	169.38	
			For 316 Stainless Steel, Add	190.18	
			For Aluminum, Add	10.70	
			For Galvanized Steel, Add	36.85	
05 12 23 00-0577	LF		C15 x 50 - 15" Wide Channel	160.49	64.65
			For >100 To 250, Deduct	-8.32	
			For >250 To 500, Deduct	-12.33	
			For >500 To 1,000, Deduct	-18.50	
			For >1,000, Deduct	-24.67	
			For 304 Stainless Steel, Add	211.73	
			For 316 Stainless Steel, Add	237.73	
			For Aluminum, Add	13.37	
			For Galvanized Steel, Add	46.06	
05 12 23 00-0578 Miscellaneous Channels - MC (05 12 23 00-0422)					
05 12 23 00-0579	LF		MC6 x 12 - 6" Wide Channel	39.99	16.62
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-3.11	
			For >500 To 1,000, Deduct	-4.66	
			For >1,000, Deduct	-6.22	
			For 304 Stainless Steel, Add	50.82	
			For 316 Stainless Steel, Add	57.06	
			For Aluminum, Add	3.21	
			For Galvanized Steel, Add	11.05	
05 12 23 00-0580	LF		MC6 x 15.1 - 6" Wide Channel	50.32	20.91
			For >100 To 250, Deduct	-2.65	
			For >250 To 500, Deduct	-3.91	
			For >500 To 1,000, Deduct	-5.87	
			For >1,000, Deduct	-7.82	
			For 304 Stainless Steel, Add	63.95	
			For 316 Stainless Steel, Add	71.81	
			For Aluminum, Add	4.04	
			For Galvanized Steel, Add	13.91	
05 12 23 00-0581	LF		MC6 x 15.3 - 6" Wide Channel	50.98	21.18
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.96	
			For >500 To 1,000, Deduct	-5.94	
			For >1,000, Deduct	-7.92	
			For 304 Stainless Steel, Add	64.78	
			For 316 Stainless Steel, Add	72.74	
			For Aluminum, Add	4.09	
			For Galvanized Steel, Add	14.09	
05 12 23 00-0582	LF		MC6 x 16.3 - 6" Wide Channel	54.32	22.57
			For >100 To 250, Deduct	-2.86	
			For >250 To 500, Deduct	-4.22	
			For >500 To 1,000, Deduct	-6.33	
			For >1,000, Deduct	-8.44	
			For 304 Stainless Steel, Add	69.03	
			For 316 Stainless Steel, Add	77.50	
			For Aluminum, Add	4.36	
			For Galvanized Steel, Add	15.02	
05 12 23 00-0583	LF		MC6 x 18 - 6" Wide Channel	59.97	24.92
			For >100 To 250, Deduct	-3.16	
			For >250 To 500, Deduct	-4.66	
			For >500 To 1,000, Deduct	-6.99	
			For >1,000, Deduct	-9.32	
			For 304 Stainless Steel, Add	76.21	
			For 316 Stainless Steel, Add	85.57	
			For Aluminum, Add	4.81	
			For Galvanized Steel, Add	16.58	
05 12 23 00-0584	LF		MC7 x 17.6 - 7" Wide Channel	58.52	24.28
			For >100 To 250, Deduct	-3.08	
			For >250 To 500, Deduct	-4.54	
			For >500 To 1,000, Deduct	-6.82	
			For >1,000, Deduct	-9.09	
			For 304 Stainless Steel, Add	74.53	
			For 316 Stainless Steel, Add	83.68	
			For Aluminum, Add	4.71	
			For Galvanized Steel, Add	16.21	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0585	LF		MC7 x 19.1 - 7" Wide Channel.....	63.51	26.35
			For >100 To 250, Deduct	-3.34	
			For >250 To 500, Deduct	-4.93	
			For >500 To 1,000, Deduct	-7.40	
			For >1,000, Deduct	-9.86	
			For 304 Stainless Steel, Add	80.88	
			For 316 Stainless Steel, Add	90.82	
			For Aluminum, Add	5.11	
			For Galvanized Steel, Add	17.60	
05 12 23 00-0586	LF		MC7 x 22.7 - 7" Wide Channel.....	75.49	31.31
			For >100 To 250, Deduct	-3.98	
			For >250 To 500, Deduct	-5.86	
			For >500 To 1,000, Deduct	-8.79	
			For >1,000, Deduct	-11.73	
			For 304 Stainless Steel, Add	96.13	
			For 316 Stainless Steel, Add	107.94	
			For Aluminum, Add	6.07	
			For Galvanized Steel, Add	20.91	
05 12 23 00-0587	LF		MC8 x 8.5 - 8" Wide Channel.....	27.29	10.99
			For >100 To 250, Deduct	-1.42	
			For >250 To 500, Deduct	-2.10	
			For >500 To 1,000, Deduct	-3.15	
			For >1,000, Deduct	-4.20	
			For 304 Stainless Steel, Add	36.00	
			For 316 Stainless Steel, Add	40.42	
			For Aluminum, Add	2.27	
			For Galvanized Steel, Add	7.83	
05 12 23 00-0588	LF		MC8 x 18.7 - 8" Wide Channel.....	60.02	24.17
			For >100 To 250, Deduct	-3.11	
			For >250 To 500, Deduct	-4.61	
			For >500 To 1,000, Deduct	-6.92	
			For >1,000, Deduct	-9.23	
			For 304 Stainless Steel, Add	79.17	
			For 316 Stainless Steel, Add	88.90	
			For Aluminum, Add	5.00	
			For Galvanized Steel, Add	17.22	
05 12 23 00-0589	LF		MC8 x 20 - 8" Wide Channel.....	64.21	25.86
			For >100 To 250, Deduct	-3.33	
			For >250 To 500, Deduct	-4.94	
			For >500 To 1,000, Deduct	-7.40	
			For >1,000, Deduct	-9.87	
			For 304 Stainless Steel, Add	84.70	
			For 316 Stainless Steel, Add	95.10	
			For Aluminum, Add	5.35	
			For Galvanized Steel, Add	18.43	
05 12 23 00-0590	LF		MC8 x 21.4 - 8" Wide Channel.....	68.70	27.68
			For >100 To 250, Deduct	-3.56	
			For >250 To 500, Deduct	-5.28	
			For >500 To 1,000, Deduct	-7.92	
			For >1,000, Deduct	-10.56	
			For 304 Stainless Steel, Add	90.63	
			For 316 Stainless Steel, Add	101.76	
			For Aluminum, Add	5.72	
			For Galvanized Steel, Add	19.72	
05 12 23 00-0591	LF		MC8 x 22.8 - 8" Wide Channel.....	73.18	29.49
			For >100 To 250, Deduct	-3.79	
			For >250 To 500, Deduct	-5.62	
			For >500 To 1,000, Deduct	-8.44	
			For >1,000, Deduct	-11.25	
			For 304 Stainless Steel, Add	96.56	
			For 316 Stainless Steel, Add	108.42	
			For Aluminum, Add	6.10	
			For Galvanized Steel, Add	21.01	
05 12 23 00-0592	LF		MC9 x 23.9 - 9" Wide Channel.....	76.71	30.91
			For >100 To 250, Deduct	-3.98	
			For >250 To 500, Deduct	-5.90	
			For >500 To 1,000, Deduct	-8.84	
			For >1,000, Deduct	-11.79	
			For 304 Stainless Steel, Add	101.20	
			For 316 Stainless Steel, Add	113.63	
			For Aluminum, Add	6.39	
			For Galvanized Steel, Add	22.02	
05 12 23 00-0593	LF		MC9 x 25.4 - 9" Wide Channel.....	81.53	32.84
			For >100 To 250, Deduct	-4.23	
			For >250 To 500, Deduct	-6.27	
			For >500 To 1,000, Deduct	-9.40	
			For >1,000, Deduct	-12.53	
			For 304 Stainless Steel, Add	107.56	
			For 316 Stainless Steel, Add	120.77	
			For Aluminum, Add	6.79	
			For Galvanized Steel, Add	23.40	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0594	LF		MC10 x 6.5 - 10" Wide Channel	20.87	8.40
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.60	
			For >500 To 1,000, Deduct	-2.41	
			For >1,000, Deduct	-3.21	
			For 304 Stainless Steel, Add	27.53	
			For 316 Stainless Steel, Add	30.91	
			For Aluminum, Add	1.74	
			For Galvanized Steel, Add	5.99	
05 12 23 00-0595	LF		MC10 x 8.4 - 10" Wide Channel	26.96	10.86
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-2.07	
			For >500 To 1,000, Deduct	-3.11	
			For >1,000, Deduct	-4.14	
			For 304 Stainless Steel, Add	35.57	
			For 316 Stainless Steel, Add	39.94	
			For Aluminum, Add	2.25	
			For Galvanized Steel, Add	7.74	
05 12 23 00-0596	LF		MC10 x 21.9 - 10" Wide Channel	70.30	28.32
			For >100 To 250, Deduct	-3.65	
			For >250 To 500, Deduct	-5.40	
			For >500 To 1,000, Deduct	-8.10	
			For >1,000, Deduct	-10.81	
			For 304 Stainless Steel, Add	92.74	
			For 316 Stainless Steel, Add	104.13	
			For Aluminum, Add	5.86	
			For Galvanized Steel, Add	20.17	
05 12 23 00-0597	LF		MC10 x 24.9 - 10" Wide Channel	79.93	32.20
			For >100 To 250, Deduct	-4.14	
			For >250 To 500, Deduct	-6.14	
			For >500 To 1,000, Deduct	-9.21	
			For >1,000, Deduct	-12.29	
			For 304 Stainless Steel, Add	105.45	
			For 316 Stainless Steel, Add	118.40	
			For Aluminum, Add	6.66	
			For Galvanized Steel, Add	22.94	
05 12 23 00-0598	LF		MC10 x 25.3 - 10" Wide Channel	81.21	32.72
			For >100 To 250, Deduct	-4.21	
			For >250 To 500, Deduct	-6.24	
			For >500 To 1,000, Deduct	-9.36	
			For >1,000, Deduct	-12.48	
			For 304 Stainless Steel, Add	107.13	
			For 316 Stainless Steel, Add	120.29	
			For Aluminum, Add	6.77	
			For Galvanized Steel, Add	23.31	
05 12 23 00-0599	LF		MC10 x 28.3 - 10" Wide Channel	90.85	36.59
			For >100 To 250, Deduct	-4.71	
			For >250 To 500, Deduct	-6.98	
			For >500 To 1,000, Deduct	-10.47	
			For >1,000, Deduct	-13.97	
			For 304 Stainless Steel, Add	119.84	
			For 316 Stainless Steel, Add	134.56	
			For Aluminum, Add	7.57	
			For Galvanized Steel, Add	26.07	
05 12 23 00-0600	LF		MC10 x 28.5 - 10" Wide Channel	91.47	36.85
			For >100 To 250, Deduct	-4.74	
			For >250 To 500, Deduct	-7.03	
			For >500 To 1,000, Deduct	-10.55	
			For >1,000, Deduct	-14.06	
			For 304 Stainless Steel, Add	120.67	
			For 316 Stainless Steel, Add	135.49	
			For Aluminum, Add	7.62	
			For Galvanized Steel, Add	26.25	
05 12 23 00-0601	LF		MC10 x 33.6 - 10" Wide Channel	107.85	43.46
			For >100 To 250, Deduct	-5.59	
			For >250 To 500, Deduct	-8.29	
			For >500 To 1,000, Deduct	-12.43	
			For >1,000, Deduct	-16.58	
			For 304 Stainless Steel, Add	142.27	
			For 316 Stainless Steel, Add	159.74	
			For Aluminum, Add	8.99	
			For Galvanized Steel, Add	30.95	
05 12 23 00-0602	LF		MC10 x 41.1 - 10" Wide Channel	131.93	53.15
			For >100 To 250, Deduct	-6.84	
			For >250 To 500, Deduct	-10.14	
			For >500 To 1,000, Deduct	-15.21	
			For >1,000, Deduct	-20.28	
			For 304 Stainless Steel, Add	174.05	
			For 316 Stainless Steel, Add	195.42	
			For Aluminum, Add	10.99	
			For Galvanized Steel, Add	37.86	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0603	LF		MC12 x 30.9 - 12" Wide Channel.....	99.19	39.95
			For >100 To 250, Deduct	-5.14	
			For >250 To 500, Deduct	-7.62	
			For >500 To 1,000, Deduct	-11.44	
			For >1,000, Deduct	-15.25	
			For 304 Stainless Steel, Add	130.84	
			For 316 Stainless Steel, Add	146.91	
			For Aluminum, Add	8.26	
			For Galvanized Steel, Add	28.46	
05 12 23 00-0604	LF		MC12 x 32.9 - 12" Wide Channel.....	105.61	42.54
			For >100 To 250, Deduct	-5.48	
			For >250 To 500, Deduct	-8.12	
			For >500 To 1,000, Deduct	-12.18	
			For >1,000, Deduct	-16.23	
			For 304 Stainless Steel, Add	139.31	
			For 316 Stainless Steel, Add	156.42	
			For Aluminum, Add	8.80	
			For Galvanized Steel, Add	30.31	
05 12 23 00-0605	LF		MC12 x 35 - 12" Wide Channel.....	112.35	45.25
			For >100 To 250, Deduct	-5.83	
			For >250 To 500, Deduct	-8.64	
			For >500 To 1,000, Deduct	-12.95	
			For >1,000, Deduct	-17.27	
			For 304 Stainless Steel, Add	148.20	
			For 316 Stainless Steel, Add	166.40	
			For Aluminum, Add	9.36	
			For Galvanized Steel, Add	32.24	
05 12 23 00-0606	LF		MC12 x 37 - 12" Wide Channel.....	118.77	47.85
			For >100 To 250, Deduct	-6.16	
			For >250 To 500, Deduct	-9.13	
			For >500 To 1,000, Deduct	-13.69	
			For >1,000, Deduct	-18.26	
			For 304 Stainless Steel, Add	156.66	
			For 316 Stainless Steel, Add	175.90	
			For Aluminum, Add	9.89	
			For Galvanized Steel, Add	34.08	
05 12 23 00-0607	LF		MC12 x 40 - 12" Wide Channel.....	128.39	51.72
			For >100 To 250, Deduct	-6.66	
			For >250 To 500, Deduct	-9.87	
			For >500 To 1,000, Deduct	-14.80	
			For >1,000, Deduct	-19.74	
			For 304 Stainless Steel, Add	169.38	
			For 316 Stainless Steel, Add	190.18	
			For Aluminum, Add	10.70	
			For Galvanized Steel, Add	36.85	
05 12 23 00-0608	LF		MC12 x 45 - 12" Wide Channel.....	144.45	58.19
			For >100 To 250, Deduct	-7.49	
			For >250 To 500, Deduct	-11.10	
			For >500 To 1,000, Deduct	-16.65	
			For >1,000, Deduct	-22.20	
			For 304 Stainless Steel, Add	190.55	
			For 316 Stainless Steel, Add	213.95	
			For Aluminum, Add	12.03	
			For Galvanized Steel, Add	41.45	
05 12 23 00-0609	LF		MC12 x 50 - 12" Wide Channel.....	160.49	64.66
			For >100 To 250, Deduct	-8.32	
			For >250 To 500, Deduct	-12.33	
			For >500 To 1,000, Deduct	-18.50	
			For >1,000, Deduct	-24.67	
			For 304 Stainless Steel, Add	211.73	
			For 316 Stainless Steel, Add	237.73	
			For Aluminum, Add	13.37	
			For Galvanized Steel, Add	46.06	
05 12 23 00-0610	LF		MC13 x 31.8 - 13" Wide Channel.....	102.08	41.12
			For >100 To 250, Deduct	-5.29	
			For >250 To 500, Deduct	-7.85	
			For >500 To 1,000, Deduct	-11.77	
			For >1,000, Deduct	-15.69	
			For 304 Stainless Steel, Add	134.66	
			For 316 Stainless Steel, Add	151.20	
			For Aluminum, Add	8.51	
			For Galvanized Steel, Add	29.30	
05 12 23 00-0611	LF		MC13 x 35 - 13" Wide Channel.....	112.35	45.25
			For >100 To 250, Deduct	-5.83	
			For >250 To 500, Deduct	-8.64	
			For >500 To 1,000, Deduct	-12.95	
			For >1,000, Deduct	-17.27	
			For 304 Stainless Steel, Add	148.20	
			For 316 Stainless Steel, Add	166.40	
			For Aluminum, Add	9.36	
			For Galvanized Steel, Add	32.24	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0612	LF		MC13 x 40 - 13" Wide Channel	128.39	51.72
			For >100 To 250, Deduct	-6.66	
			For >250 To 500, Deduct	-9.87	
			For >500 To 1,000, Deduct	-14.80	
			For >1,000, Deduct	-19.74	
			For 304 Stainless Steel, Add	169.38	
			For 316 Stainless Steel, Add	190.18	
			For Aluminum, Add	10.70	
			For Galvanized Steel, Add	36.85	
05 12 23 00-0613	LF		MC13 x 50 - 13" Wide Channel	160.49	64.66
			For >100 To 250, Deduct	-8.32	
			For >250 To 500, Deduct	-12.33	
			For >500 To 1,000, Deduct	-18.50	
			For >1,000, Deduct	-24.67	
			For 304 Stainless Steel, Add	211.73	
			For 316 Stainless Steel, Add	237.73	
			For Aluminum, Add	13.37	
			For Galvanized Steel, Add	46.06	
05 12 23 00-0614	LF		MC18 x 42.7 - 18" Wide Channel	137.07	55.21
			For >100 To 250, Deduct	-7.11	
			For >250 To 500, Deduct	-10.54	
			For >500 To 1,000, Deduct	-15.80	
			For >1,000, Deduct	-21.07	
			For 304 Stainless Steel, Add	180.80	
			For 316 Stainless Steel, Add	203.01	
			For Aluminum, Add	11.42	
			For Galvanized Steel, Add	39.33	
05 12 23 00-0615	LF		MC18 x 45.8 - 18" Wide Channel	147.01	59.23
			For >100 To 250, Deduct	-7.62	
			For >250 To 500, Deduct	-11.30	
			For >500 To 1,000, Deduct	-16.95	
			For >1,000, Deduct	-22.60	
			For 304 Stainless Steel, Add	193.94	
			For 316 Stainless Steel, Add	217.76	
			For Aluminum, Add	12.25	
			For Galvanized Steel, Add	42.19	
05 12 23 00-0616	LF		MC18 x 51.9 - 18" Wide Channel	166.60	67.11
			For >100 To 250, Deduct	-8.64	
			For >250 To 500, Deduct	-12.80	
			For >500 To 1,000, Deduct	-19.21	
			For >1,000, Deduct	-25.61	
			For 304 Stainless Steel, Add	219.76	
			For 316 Stainless Steel, Add	246.75	
			For Aluminum, Add	13.88	
			For Galvanized Steel, Add	47.81	
05 12 23 00-0617	LF		MC18 x 58 - 18" Wide Channel	186.18	74.99
			For >100 To 250, Deduct	-9.65	
			For >250 To 500, Deduct	-14.31	
			For >500 To 1,000, Deduct	-21.46	
			For >1,000, Deduct	-28.62	
			For 304 Stainless Steel, Add	245.61	
			For 316 Stainless Steel, Add	275.78	
			For Aluminum, Add	15.51	
			For Galvanized Steel, Add	53.43	
05 12 23 00-0618			Structural Bar Tees (05 12 23 00-0422)		
05 12 23 00-0619	LF		3/4" x 3/4" x 1/8" Structural Bar Tee	5.79	3.44
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.52	
			For >500 To 1,000, Deduct	-0.78	
			For >1,000, Deduct	-1.04	
			For 304 Stainless Steel, Add	3.42	
			For 316 Stainless Steel, Add	3.84	
			For Aluminum, Add	0.22	
			For Galvanized Steel, Add	0.74	
05 12 23 00-0620	LF		1" x 1" x 1/8" Structural Bar Tee	7.05	4.05
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.62	
			For >500 To 1,000, Deduct	-0.93	
			For >1,000, Deduct	-1.25	
			For 304 Stainless Steel, Add	4.70	
			For 316 Stainless Steel, Add	5.28	
			For Aluminum, Add	0.30	
			For Galvanized Steel, Add	1.02	
05 12 23 00-0621	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	10.95	4.69
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-0.86	
			For >500 To 1,000, Deduct	-1.29	
			For >1,000, Deduct	-1.72	
			For 304 Stainless Steel, Add	13.42	
			For 316 Stainless Steel, Add	15.07	
			For Aluminum, Add	0.85	
			For Galvanized Steel, Add	2.92	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0622	LF		2" x 2" x 1/4" Structural Bar Tee	15.19	6.13
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.17	
			For >500 To 1,000, Deduct	-1.75	
			For >1,000, Deduct	-2.34	
			For 304 Stainless Steel, Add	20.01	
			For 316 Stainless Steel, Add	22.46	
			For Aluminum, Add	1.26	
			For Galvanized Steel, Add	4.35	
05 12 23 00-0623	LF		2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	22.46	7.39
			For >100 To 250, Deduct	-1.05	
			For >250 To 500, Deduct	-1.62	
			For >500 To 1,000, Deduct	-2.42	
			For >1,000, Deduct	-3.23	
			For 304 Stainless Steel, Add	35.91	
			For 316 Stainless Steel, Add	40.32	
			For Aluminum, Add	2.27	
			For Galvanized Steel, Add	7.81	
05 12 23 00-0624	LF		3" x 3" x 3/8" Structural Bar Tee	27.74	9.46
			For >100 To 250, Deduct	-1.32	
			For >250 To 500, Deduct	-2.02	
			For >500 To 1,000, Deduct	-3.03	
			For >1,000, Deduct	-4.04	
			For 304 Stainless Steel, Add	43.09	
			For 316 Stainless Steel, Add	48.38	
			For Aluminum, Add	2.72	
			For Galvanized Steel, Add	9.37	
05 12 23 00-0625			Structural Zees (05 12 23 00-0422)		
05 12 23 00-0626	LF		1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee	13.26	4.69
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-0.98	
			For >500 To 1,000, Deduct	-1.46	
			For >1,000, Deduct	-1.95	
			For 304 Stainless Steel, Add	20.01	
			For 316 Stainless Steel, Add	22.46	
			For Aluminum, Add	1.26	
			For Galvanized Steel, Add	4.35	
05 12 23 00-0627	LF		2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee	24.25	5.59
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.58	
			For >500 To 1,000, Deduct	-2.38	
			For >1,000, Deduct	-3.17	
			For 304 Stainless Steel, Add	47.91	
			For 316 Stainless Steel, Add	53.79	
			For Aluminum, Add	3.03	
			For Galvanized Steel, Add	10.42	
05 12 23 00-0628	LF		3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee	28.98	6.31
			For >100 To 250, Deduct	-1.15	
			For >250 To 500, Deduct	-1.87	
			For >500 To 1,000, Deduct	-2.80	
			For >1,000, Deduct	-3.74	
			For 304 Stainless Steel, Add	58.62	
			For 316 Stainless Steel, Add	65.82	
			For Aluminum, Add	3.70	
			For Galvanized Steel, Add	12.75	
05 12 23 00-0629	LF		3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee	38.72	7.21
			For >100 To 250, Deduct	-1.45	
			For >250 To 500, Deduct	-2.42	
			For >500 To 1,000, Deduct	-3.63	
			For >1,000, Deduct	-4.83	
			For 304 Stainless Steel, Add	82.94	
			For 316 Stainless Steel, Add	93.12	
			For Aluminum, Add	5.24	
			For Galvanized Steel, Add	18.04	
05 12 23 00-0630	LF		3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee	49.83	7.84
			For >100 To 250, Deduct	-1.77	
			For >250 To 500, Deduct	-3.01	
			For >500 To 1,000, Deduct	-4.52	
			For >1,000, Deduct	-6.03	
			For 304 Stainless Steel, Add	112.23	
			For 316 Stainless Steel, Add	126.02	
			For Aluminum, Add	7.09	
			For Galvanized Steel, Add	24.42	

05 12 23 00-0631 Junior I-Beams (05 12 23 00-0422)



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0632	LF		3" Junior I-Beam, 2.9 Lb./LF	18.27	6.76
			For >100 To 250, Deduct	-0.91	
			For >250 To 500, Deduct	-1.36	
			For >500 To 1,000, Deduct	-2.05	
			For >1,000, Deduct	-2.73	
			For 304 Stainless Steel, Add	26.39	
			For 316 Stainless Steel, Add	29.63	
			For Aluminum, Add	1.67	
			For Galvanized Steel, Add	5.74	
05 12 23 00-0633	LF		4" Junior I-Beam, 3.2 Lb./LF	20.08	7.39
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.50	
			For >500 To 1,000, Deduct	-2.25	
			For >1,000, Deduct	-2.99	
			For 304 Stainless Steel, Add	29.13	
			For 316 Stainless Steel, Add	32.70	
			For Aluminum, Add	1.84	
			For Galvanized Steel, Add	6.34	
05 12 23 00-0634	LF		5" Junior I-Beam, 3.8 Lb./LF	22.94	8.11
			For >100 To 250, Deduct	-1.11	
			For >250 To 500, Deduct	-1.69	
			For >500 To 1,000, Deduct	-2.53	
			For >1,000, Deduct	-3.38	
			For 304 Stainless Steel, Add	34.57	
			For 316 Stainless Steel, Add	38.82	
			For Aluminum, Add	2.18	
			For Galvanized Steel, Add	7.52	
05 12 23 00-0635	LF		6" Junior I-Beam, 4.4 Lb./LF	25.83	8.83
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.88	
			For >500 To 1,000, Deduct	-2.82	
			For >1,000, Deduct	-3.76	
			For 304 Stainless Steel, Add	40.04	
			For 316 Stainless Steel, Add	44.96	
			For Aluminum, Add	2.53	
			For Galvanized Steel, Add	8.71	
05 12 23 00-0636	LF		7" Junior I-Beam, 5.5 Lb./LF	30.18	9.46
			For >100 To 250, Deduct	-1.39	
			For >250 To 500, Deduct	-2.14	
			For >500 To 1,000, Deduct	-3.21	
			For >1,000, Deduct	-4.28	
			For 304 Stainless Steel, Add	50.05	
			For 316 Stainless Steel, Add	56.19	
			For Aluminum, Add	3.16	
			For Galvanized Steel, Add	10.89	
05 12 23 00-0637	LF		8" Junior I-Beam, 6.5 Lb./LF	34.21	10.09
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-2.38	
			For >500 To 1,000, Deduct	-3.58	
			For >1,000, Deduct	-4.77	
			For 304 Stainless Steel, Add	59.14	
			For 316 Stainless Steel, Add	66.40	
			For Aluminum, Add	3.74	
			For Galvanized Steel, Add	12.87	
05 12 23 00-0638	LF		10" Junior I-Beam, 9 Lb./LF	44.11	11.54
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.97	
			For >500 To 1,000, Deduct	-4.46	
			For >1,000, Deduct	-5.95	
			For 304 Stainless Steel, Add	81.88	
			For 316 Stainless Steel, Add	91.94	
			For Aluminum, Add	5.17	
			For Galvanized Steel, Add	17.81	
05 12 23 00-0639	LF		12" Junior I-Beam, 11.8 Lb./LF	55.93	13.70
			For >100 To 250, Deduct	-2.31	
			For >250 To 500, Deduct	-3.71	
			For >500 To 1,000, Deduct	-5.56	
			For >1,000, Deduct	-7.42	
			For 304 Stainless Steel, Add	107.36	
			For 316 Stainless Steel, Add	120.54	
			For Aluminum, Add	6.78	
			For Galvanized Steel, Add	23.36	
05 12 23 00-0640			Round Stock (05 12 23 00-0422)		
05 12 23 00-0641	LF		1/4" Carbon Steel Rounds, ASTM A108	2.60	
			For 304 Stainless Steel, Add	3.99	
			For 316 Stainless Steel, Add	4.48	
			For Aluminum, Add	0.25	
			For Galvanized Steel, Add	0.87	
05 12 23 00-0642	LF		3/8" Carbon Steel Rounds, ASTM A108	4.11	
			For 304 Stainless Steel, Add	7.84	
			For 316 Stainless Steel, Add	8.80	
			For Aluminum, Add	0.50	
			For Galvanized Steel, Add	1.71	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0643 LF 1/2" Carbon Steel Rounds, ASTM A108	5.70	
For 304 Stainless Steel, Add	11.94	
For 316 Stainless Steel, Add	13.41	
For Aluminum, Add	0.75	
For Galvanized Steel, Add	2.60	
05 12 23 00-0644 LF 5/8" Carbon Steel Rounds, ASTM A108	8.65	
For 304 Stainless Steel, Add	19.89	
For 316 Stainless Steel, Add	22.34	
For Aluminum, Add	1.26	
For Galvanized Steel, Add	4.33	
05 12 23 00-0645 LF 3/4" Carbon Steel Rounds, ASTM A108	10.29	
For 304 Stainless Steel, Add	23.63	
For 316 Stainless Steel, Add	26.53	
For Aluminum, Add	1.49	
For Galvanized Steel, Add	5.14	
05 12 23 00-0646 LF 7/8" Carbon Steel Rounds, ASTM A108	12.00	
For 304 Stainless Steel, Add	27.62	
For 316 Stainless Steel, Add	31.01	
For Aluminum, Add	1.74	
For Galvanized Steel, Add	6.01	
05 12 23 00-0647 LF 1" Carbon Steel Rounds, ASTM A108	17.49	
For 304 Stainless Steel, Add	42.07	
For 316 Stainless Steel, Add	47.23	
For Aluminum, Add	2.66	
For Galvanized Steel, Add	9.15	
05 12 23 00-0648 LF 1-1/8" Carbon Steel Rounds, ASTM A108	21.26	
For 304 Stainless Steel, Add	51.10	
For 316 Stainless Steel, Add	57.38	
For Aluminum, Add	3.23	
For Galvanized Steel, Add	11.12	
05 12 23 00-0649 LF 1-1/4" Carbon Steel Rounds, ASTM A108	25.40	
For 304 Stainless Steel, Add	60.16	
For 316 Stainless Steel, Add	67.55	
For Aluminum, Add	3.80	
For Galvanized Steel, Add	13.09	
05 12 23 00-0650 LF 1-3/8" Carbon Steel Rounds, ASTM A108	30.77	
For 304 Stainless Steel, Add	73.42	
For 316 Stainless Steel, Add	82.43	
For Aluminum, Add	4.64	
For Galvanized Steel, Add	15.97	
05 12 23 00-0651 LF 1-1/2" Carbon Steel Rounds, ASTM A108	34.27	
For 304 Stainless Steel, Add	80.54	
For 316 Stainless Steel, Add	90.43	
For Aluminum, Add	5.09	
For Galvanized Steel, Add	17.52	
05 12 23 00-0652 LF 1-5/8" Carbon Steel Rounds, ASTM A108	39.54	
For 304 Stainless Steel, Add	91.26	
For 316 Stainless Steel, Add	102.46	
For Aluminum, Add	5.76	
For Galvanized Steel, Add	19.85	
05 12 23 00-0653 LF 1-3/4" Carbon Steel Rounds, ASTM A108	47.27	
For 304 Stainless Steel, Add	106.19	
For 316 Stainless Steel, Add	119.23	
For Aluminum, Add	6.71	
For Galvanized Steel, Add	23.10	
05 12 23 00-0654 LF 1-7/8" Carbon Steel Rounds, ASTM A108	56.87	
For 304 Stainless Steel, Add	124.40	
For 316 Stainless Steel, Add	139.68	
For Aluminum, Add	7.86	
For Galvanized Steel, Add	27.06	
05 12 23 00-0655 LF 2" Carbon Steel Rounds, ASTM A108	64.93	
For 304 Stainless Steel, Add	138.40	
For 316 Stainless Steel, Add	155.39	
For Aluminum, Add	8.74	
For Galvanized Steel, Add	30.11	
05 12 23 00-0656 LF 2-1/8" Carbon Steel Rounds, ASTM A108	75.79	
For 304 Stainless Steel, Add	158.03	
For 316 Stainless Steel, Add	177.44	
For Aluminum, Add	9.98	
For Galvanized Steel, Add	34.38	
05 12 23 00-0657 LF 2-1/4" Carbon Steel Rounds, ASTM A108	85.73	
For 304 Stainless Steel, Add	177.70	
For 316 Stainless Steel, Add	199.52	
For Aluminum, Add	11.22	
For Galvanized Steel, Add	38.66	
05 12 23 00-0658 LF 2-3/8" Carbon Steel Rounds, ASTM A108	98.19	
For 304 Stainless Steel, Add	203.23	
For 316 Stainless Steel, Add	228.19	
For Aluminum, Add	12.84	
For Galvanized Steel, Add	44.21	
05 12 23 00-0659 LF 2-1/2" Carbon Steel Rounds, ASTM A108	108.42	
For 304 Stainless Steel, Add	219.05	
For 316 Stainless Steel, Add	245.95	
For Aluminum, Add	13.83	
For Galvanized Steel, Add	47.65	



	Metals	05	
	Structural Metal Framing	05 10	05
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0660	LF		2-5/8" Carbon Steel Rounds, ASTM A108.....	132.69	
			For 304 Stainless Steel, Add	278.22	
			For 316 Stainless Steel, Add	312.38	
			For Aluminum, Add	17.57	
			For Galvanized Steel, Add	60.52	
05 12 23 00-0661	LF		2-3/4" Carbon Steel Rounds, ASTM A108.....	151.08	
			For 304 Stainless Steel, Add	317.29	
			For 316 Stainless Steel, Add	356.26	
			For Aluminum, Add	20.04	
			For Galvanized Steel, Add	69.02	
05 12 23 00-0662	LF		2-7/8 Carbon Steel Rounds, ASTM A108.....	168.49	
			For 304 Stainless Steel, Add	353.57	
			For 316 Stainless Steel, Add	396.99	
			For Aluminum, Add	22.33	
			For Galvanized Steel, Add	76.92	
05 12 23 00-0663	LF		3" Carbon Steel Rounds, ASTM A108.....	176.89	
			For 304 Stainless Steel, Add	364.17	
			For 316 Stainless Steel, Add	408.90	
			For Aluminum, Add	23.00	
			For Galvanized Steel, Add	79.22	
05 12 23 00-0664	LF		3-1/8" Carbon Steel Rounds, ASTM A108.....	184.40	
			For 304 Stainless Steel, Add	372.27	
			For 316 Stainless Steel, Add	417.98	
			For Aluminum, Add	23.51	
			For Galvanized Steel, Add	80.98	
05 12 23 00-0665	LF		3-1/4" Carbon Steel Rounds, ASTM A108.....	194.41	
			For 304 Stainless Steel, Add	387.46	
			For 316 Stainless Steel, Add	435.04	
			For Aluminum, Add	24.47	
			For Galvanized Steel, Add	84.29	
05 12 23 00-0666	LF		3-1/2" Carbon Steel Rounds, ASTM A108.....	236.79	
			For 304 Stainless Steel, Add	491.60	
			For 316 Stainless Steel, Add	551.97	
			For Aluminum, Add	31.05	
			For Galvanized Steel, Add	106.94	
05 12 23 00-0667	LF		3-5/8" Carbon Steel Rounds, ASTM A108.....	263.11	
			For 304 Stainless Steel, Add	549.94	
			For 316 Stainless Steel, Add	617.47	
			For Aluminum, Add	34.73	
			For Galvanized Steel, Add	119.64	
05 12 23 00-0668	LF		3-3/4" Carbon Steel Rounds, ASTM A108.....	282.40	
			For 304 Stainless Steel, Add	588.27	
			For 316 Stainless Steel, Add	660.51	
			For Aluminum, Add	37.15	
			For Galvanized Steel, Add	127.97	
05 12 23 00-0669	LF		4" Carbon Steel Rounds, ASTM A108.....	316.85	
			For 304 Stainless Steel, Add	669.78	
			For 316 Stainless Steel, Add	752.03	
			For Aluminum, Add	42.30	
			For Galvanized Steel, Add	145.71	
05 12 23 00-0670			Square Stock (05 12 23 00-0422)		
05 12 23 00-0671	LF		3/8" Square Bar Stock.....	2.07	
			For 304 Stainless Steel, Add	2.02	
			For 316 Stainless Steel, Add	2.27	
			For Aluminum, Add	0.13	
			For Galvanized Steel, Add	0.44	
05 12 23 00-0672	LF		1/2" Square Bar Stock.....	2.76	
			For 304 Stainless Steel, Add	3.56	
			For 316 Stainless Steel, Add	4.00	
			For Aluminum, Add	0.23	
			For Galvanized Steel, Add	0.78	
05 12 23 00-0673	LF		5/8" Square Bar Stock.....	3.63	
			For 304 Stainless Steel, Add	5.59	
			For 316 Stainless Steel, Add	6.27	
			For Aluminum, Add	0.35	
			For Galvanized Steel, Add	1.22	
05 12 23 00-0674	LF		3/4" Square Bar Stock.....	4.83	
			For 304 Stainless Steel, Add	8.07	
			For 316 Stainless Steel, Add	9.06	
			For Aluminum, Add	0.51	
			For Galvanized Steel, Add	1.75	
05 12 23 00-0675	LF		7/8" Square Bar Stock.....	6.26	
			For 304 Stainless Steel, Add	11.26	
			For 316 Stainless Steel, Add	12.64	
			For Aluminum, Add	0.71	
			For Galvanized Steel, Add	2.45	
05 12 23 00-0676	LF		1" Square Bar Stock.....	7.77	
			For 304 Stainless Steel, Add	14.36	
			For 316 Stainless Steel, Add	16.13	
			For Aluminum, Add	0.91	
			For Galvanized Steel, Add	3.12	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0677	LF		1-1/4" Square Bar Stock	12.16	
			For 304 Stainless Steel, Add	22.43	
			For 316 Stainless Steel, Add	25.18	
			For Aluminum, Add	1.42	
			For Galvanized Steel, Add	4.88	
05 12 23 00-0678	LF		1-1/2" Square Bar Stock	17.34	
			For 304 Stainless Steel, Add	32.29	
			For 316 Stainless Steel, Add	36.26	
			For Aluminum, Add	2.04	
			For Galvanized Steel, Add	7.02	
05 12 23 00-0679	LF		1-3/4" Square Bar Stock	25.77	
			For 304 Stainless Steel, Add	44.92	
			For 316 Stainless Steel, Add	50.43	
			For Aluminum, Add	2.84	
			For Galvanized Steel, Add	9.77	
05 12 23 00-0680	LF		2" Square Bar Stock	36.98	
			For 304 Stainless Steel, Add	57.46	
			For 316 Stainless Steel, Add	64.51	
			For Aluminum, Add	3.63	
			For Galvanized Steel, Add	12.50	
05 12 23 00-0681			Steel Tubing (05 12 23 00-0422)		
			Note: General purpose low-carbon steel.		
05 12 23 00-0682			Square Steel Tubing (05 12 23 00-0681)		
05 12 23 00-0683			0.06" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0684	LF		1/2" x 1/2" x 0.06" Square Steel Tubing	2.71	0.65
			For >100 To 250, Deduct	-0.11	
			For >250 To 500, Deduct	-0.18	
			For >500 To 1,000, Deduct	-0.27	
			For >1,000, Deduct	-0.36	
			For 304 Stainless Steel, Add	5.27	
			For 316 Stainless Steel, Add	5.92	
			For Aluminum, Add	0.33	
			For Galvanized Steel, Add	1.15	
05 12 23 00-0685	LF		3/4" x 3/4" x 0.06" Square Steel Tubing	4.17	1.02
			For >100 To 250, Deduct	-0.17	
			For >250 To 500, Deduct	-0.28	
			For >500 To 1,000, Deduct	-0.41	
			For >1,000, Deduct	-0.55	
			For 304 Stainless Steel, Add	8.04	
			For 316 Stainless Steel, Add	9.02	
			For Aluminum, Add	0.51	
			For Galvanized Steel, Add	1.75	
05 12 23 00-0686	LF		1" x 1" x 0.06" Square Steel Tubing	5.62	1.85
			For >100 To 250, Deduct	-0.23	
			For >250 To 500, Deduct	-0.37	
			For >500 To 1,000, Deduct	-0.56	
			For >1,000, Deduct	-0.75	
			For 304 Stainless Steel, Add	10.74	
			For 316 Stainless Steel, Add	12.06	
			For Aluminum, Add	0.68	
			For Galvanized Steel, Add	2.34	
05 12 23 00-0687	LF		1-1/4" x 1-1/4" x 0.06" Square Steel Tubing	7.41	1.75
			For >100 To 250, Deduct	-0.30	
			For >250 To 500, Deduct	-0.49	
			For >500 To 1,000, Deduct	-0.73	
			For >1,000, Deduct	-0.97	
			For 304 Stainless Steel, Add	14.48	
			For 316 Stainless Steel, Add	16.26	
			For Aluminum, Add	0.91	
			For Galvanized Steel, Add	3.15	
05 12 23 00-0688	LF		1-1/2" x 1-1/2" x 0.06" Square Steel Tubing	8.80	2.12
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.58	
			For >500 To 1,000, Deduct	-0.87	
			For >1,000, Deduct	-1.16	
			For 304 Stainless Steel, Add	17.01	
			For 316 Stainless Steel, Add	19.10	
			For Aluminum, Add	1.07	
			For Galvanized Steel, Add	3.70	
05 12 23 00-0689			0.083" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0690	LF		3/4" x 3/4" x 0.083" Square Steel Tubing	4.86	1.19
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.32	
			For >500 To 1,000, Deduct	-0.48	
			For >1,000, Deduct	-0.65	
			For 304 Stainless Steel, Add	9.32	
			For 316 Stainless Steel, Add	10.46	
			For Aluminum, Add	0.59	
			For Galvanized Steel, Add	2.03	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0691	LF		1" x 1" x 0.083" Square Steel Tubing.....	7.08	1.64
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.46	
			For >500 To 1,000, Deduct	-0.69	
			For >1,000, Deduct	-0.93	
			For 304 Stainless Steel, Add	13.97	
			For 316 Stainless Steel, Add	15.68	
			For Aluminum, Add	0.88	
			For Galvanized Steel, Add	3.04	
05 12 23 00-0692	LF		1-1/4" x 1-1/4" x 0.083" Square Steel Tubing	8.55	2.08
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.57	
			For >500 To 1,000, Deduct	-0.85	
			For >1,000, Deduct	-1.13	
			For 304 Stainless Steel, Add	16.47	
			For 316 Stainless Steel, Add	18.50	
			For Aluminum, Add	1.04	
			For Galvanized Steel, Add	3.58	
05 12 23 00-0693	LF		1-1/2" x 1-1/2" x 0.083" Square Steel Tubing	10.33	2.53
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.68	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000, Deduct	-1.37	
			For 304 Stainless Steel, Add	19.86	
			For 316 Stainless Steel, Add	22.30	
			For Aluminum, Add	1.25	
			For Galvanized Steel, Add	4.32	
05 12 23 00-0694	LF		2" x 2" x 0.083" Square Steel Tubing.....	13.26	3.36
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-0.89	
			For >500 To 1,000, Deduct	-1.33	
			For >1,000, Deduct	-1.77	
			For 304 Stainless Steel, Add	25.02	
			For 316 Stainless Steel, Add	28.10	
			For Aluminum, Add	1.58	
			For Galvanized Steel, Add	5.44	
05 12 23 00-0695			0.12" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0696	LF		1" x 1" x 0.12" Square Steel Tubing.....	7.82	1.94
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.52	
			For >500 To 1,000, Deduct	-0.78	
			For >1,000, Deduct	-1.04	
			For 304 Stainless Steel, Add	14.88	
			For 316 Stainless Steel, Add	16.70	
			For Aluminum, Add	0.94	
			For Galvanized Steel, Add	3.24	
05 12 23 00-0697	LF		1-1/4" x 1-1/4" x 0.12" Square Steel Tubing	10.05	2.49
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.67	
			For >500 To 1,000, Deduct	-1.00	
			For >1,000, Deduct	-1.34	
			For 304 Stainless Steel, Add	19.18	
			For 316 Stainless Steel, Add	21.54	
			For Aluminum, Add	1.21	
			For Galvanized Steel, Add	4.17	
05 12 23 00-0698	LF		1-1/2" x 1-1/2" x 0.12" Square Steel Tubing	12.34	3.05
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.82	
			For >500 To 1,000, Deduct	-1.23	
			For >1,000, Deduct	-1.64	
			For 304 Stainless Steel, Add	23.60	
			For 316 Stainless Steel, Add	26.50	
			For Aluminum, Add	1.49	
			For Galvanized Steel, Add	5.13	
05 12 23 00-0699	LF		2" x 2" x 0.12" Square Steel Tubing.....	16.72	4.15
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.11	
			For >500 To 1,000, Deduct	-1.67	
			For >1,000, Deduct	-2.23	
			For 304 Stainless Steel, Add	31.86	
			For 316 Stainless Steel, Add	35.78	
			For Aluminum, Add	2.01	
			For Galvanized Steel, Add	6.93	

05 12 23 00-0700 1/8" Wall Thickness (05 12 23 00-0682)

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0701	LF		2" x 2" x 1/8" Square Steel Tubing.....	15.07	4.31
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.04	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000, Deduct	-2.08	
			For 304 Stainless Steel, Add	26.56	
			For 316 Stainless Steel, Add	29.82	
			For Aluminum, Add	1.68	
			For Galvanized Steel, Add	5.78	
05 12 23 00-0702	LF		2-1/2" x 2-1/2" x 1/8" Square Steel Tubing.....	19.87	5.46
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.36	
			For >500 To 1,000, Deduct	-2.04	
			For >1,000, Deduct	-2.72	
			For 304 Stainless Steel, Add	35.88	
			For 316 Stainless Steel, Add	40.29	
			For Aluminum, Add	2.27	
			For Galvanized Steel, Add	7.81	
05 12 23 00-0703	LF		3" x 3" x 1/8" Square Steel Tubing.....	23.29	6.62
			For >100 To 250, Deduct	-1.02	
			For >250 To 500, Deduct	-1.61	
			For >500 To 1,000, Deduct	-2.41	
			For >1,000, Deduct	-3.21	
			For 304 Stainless Steel, Add	41.24	
			For 316 Stainless Steel, Add	46.30	
			For Aluminum, Add	2.60	
			For Galvanized Steel, Add	8.97	
05 12 23 00-0704	LF		3-1/2" x 3-1/2" x 1/8" Square Steel Tubing.....	26.99	7.77
			For >100 To 250, Deduct	-1.19	
			For >250 To 500, Deduct	-1.87	
			For >500 To 1,000, Deduct	-2.80	
			For >1,000, Deduct	-3.73	
			For 304 Stainless Steel, Add	47.42	
			For 316 Stainless Steel, Add	53.25	
			For Aluminum, Add	3.00	
			For Galvanized Steel, Add	10.32	
05 12 23 00-0705	LF		4" x 4" x 1/8" Square Steel Tubing.....	29.76	8.91
			For >100 To 250, Deduct	-1.34	
			For >250 To 500, Deduct	-2.08	
			For >500 To 1,000, Deduct	-3.12	
			For >1,000, Deduct	-4.17	
			For 304 Stainless Steel, Add	50.93	
			For 316 Stainless Steel, Add	57.18	
			For Aluminum, Add	3.22	
			For Galvanized Steel, Add	11.08	
05 12 23 00-0706			3/16" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0707	LF		2" x 2" x 3/16" Square Steel Tubing.....	17.09	4.87
			For >100 To 250, Deduct	-0.75	
			For >250 To 500, Deduct	-1.18	
			For >500 To 1,000, Deduct	-1.77	
			For >1,000, Deduct	-2.36	
			For 304 Stainless Steel, Add	30.21	
			For 316 Stainless Steel, Add	33.92	
			For Aluminum, Add	1.91	
			For Galvanized Steel, Add	6.57	
05 12 23 00-0708	LF		2-1/2" x 2-1/2" x 3/16" Square Steel Tubing.....	22.11	6.29
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.53	
			For >500 To 1,000, Deduct	-2.29	
			For >1,000, Deduct	-3.05	
			For 304 Stainless Steel, Add	39.10	
			For 316 Stainless Steel, Add	43.90	
			For Aluminum, Add	2.47	
			For Galvanized Steel, Add	8.51	
05 12 23 00-0709	LF		3" x 3" x 3/16" Square Steel Tubing.....	27.18	7.74
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.88	
			For >500 To 1,000, Deduct	-2.81	
			For >1,000, Deduct	-3.75	
			For 304 Stainless Steel, Add	48.05	
			For 316 Stainless Steel, Add	53.95	
			For Aluminum, Add	3.03	
			For Galvanized Steel, Add	10.45	
05 12 23 00-0710	LF		3-1/2" x 3-1/2" x 3/16" Square Steel Tubing.....	32.25	9.18
			For >100 To 250, Deduct	-1.42	
			For >250 To 500, Deduct	-2.22	
			For >500 To 1,000, Deduct	-3.34	
			For >1,000, Deduct	-4.45	
			For 304 Stainless Steel, Add	57.03	
			For 316 Stainless Steel, Add	64.03	
			For Aluminum, Add	3.60	
			For Galvanized Steel, Add	12.41	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0711	LF		4" x 4" x 3/16" Square Steel Tubing.....	37.27	10.62
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.57	
			For >500 To 1,000, Deduct	-3.86	
			For >1,000, Deduct	-5.14	
			For 304 Stainless Steel, Add	65.89	
			For 316 Stainless Steel, Add	73.98	
			For Aluminum, Add	4.16	
			For Galvanized Steel, Add	14.33	
05 12 23 00-0712	LF		4-1/2" x 4-1/2" x 3/16" Square Steel Tubing	42.34	12.05
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.92	
			For >500 To 1,000, Deduct	-4.38	
			For >1,000, Deduct	-5.84	
			For 304 Stainless Steel, Add	74.87	
			For 316 Stainless Steel, Add	84.06	
			For Aluminum, Add	4.73	
			For Galvanized Steel, Add	16.29	
05 12 23 00-0713	LF		5" x 5" x 3/16" Square Steel Tubing.....	47.36	13.49
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-3.27	
			For >500 To 1,000, Deduct	-4.90	
			For >1,000, Deduct	-6.53	
			For 304 Stainless Steel, Add	83.73	
			For 316 Stainless Steel, Add	94.02	
			For Aluminum, Add	5.29	
			For Galvanized Steel, Add	18.22	
05 12 23 00-0714	LF		6" x 6" x 3/16" Square Steel Tubing.....	57.50	16.36
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.97	
			For >500 To 1,000, Deduct	-5.95	
			For >1,000, Deduct	-7.93	
			For 304 Stainless Steel, Add	101.66	
			For 316 Stainless Steel, Add	114.14	
			For Aluminum, Add	6.42	
			For Galvanized Steel, Add	22.12	
05 12 23 00-0715 1/4" Wall Thickness (05 12 23 00-0682)					
05 12 23 00-0716	LF		2" x 2" x 1/4" Square Steel Tubing.....	18.23	4.88
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.24	
			For >500 To 1,000, Deduct	-1.86	
			For >1,000, Deduct	-2.47	
			For 304 Stainless Steel, Add	33.40	
			For 316 Stainless Steel, Add	37.50	
			For Aluminum, Add	2.11	
			For Galvanized Steel, Add	7.27	
05 12 23 00-0717	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing	23.95	6.40
			For >100 To 250, Deduct	-1.03	
			For >250 To 500, Deduct	-1.63	
			For >500 To 1,000, Deduct	-2.44	
			For >1,000, Deduct	-3.25	
			For 304 Stainless Steel, Add	43.89	
			For 316 Stainless Steel, Add	49.28	
			For Aluminum, Add	2.77	
			For Galvanized Steel, Add	9.55	
05 12 23 00-0718	LF		3" x 3" x 1/4" Square Steel Tubing.....	29.68	7.94
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-2.01	
			For >500 To 1,000, Deduct	-3.02	
			For >1,000, Deduct	-4.03	
			For 304 Stainless Steel, Add	54.41	
			For 316 Stainless Steel, Add	61.09	
			For Aluminum, Add	3.44	
			For Galvanized Steel, Add	11.84	
05 12 23 00-0719	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing	35.40	9.48
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-2.40	
			For >500 To 1,000, Deduct	-3.60	
			For >1,000, Deduct	-4.80	
			For 304 Stainless Steel, Add	64.89	
			For 316 Stainless Steel, Add	72.86	
			For Aluminum, Add	4.10	
			For Galvanized Steel, Add	14.12	
05 12 23 00-0720	LF		4" x 4" x 1/4" Square Steel Tubing.....	41.12	11.00
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.79	
			For >500 To 1,000, Deduct	-4.18	
			For >1,000, Deduct	-5.58	
			For 304 Stainless Steel, Add	75.38	
			For 316 Stainless Steel, Add	84.64	
			For Aluminum, Add	4.76	
			For Galvanized Steel, Add	16.40	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0721	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	46.86	12.54
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-3.18	
			For >500 To 1,000, Deduct	-4.77	
			For >1,000, Deduct	-6.36	
			For 304 Stainless Steel, Add	85.90	
			For 316 Stainless Steel, Add	96.45	
			For Aluminum, Add	5.43	
			For Galvanized Steel, Add	18.69	
05 12 23 00-0722	LF		5" x 5" x 1/4" Square Steel Tubing.....	52.61	14.08
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-3.57	
			For >500 To 1,000, Deduct	-5.35	
			For >1,000, Deduct	-7.14	
			For 304 Stainless Steel, Add	96.44	
			For 316 Stainless Steel, Add	108.29	
			For Aluminum, Add	6.09	
			For Galvanized Steel, Add	20.98	
05 12 23 00-0723	LF		6" x 6" x 1/4" Square Steel Tubing.....	64.07	17.14
			For >100 To 250, Deduct	-2.74	
			For >250 To 500, Deduct	-4.35	
			For >500 To 1,000, Deduct	-6.52	
			For >1,000, Deduct	-8.69	
			For 304 Stainless Steel, Add	117.45	
			For 316 Stainless Steel, Add	131.87	
			For Aluminum, Add	7.42	
			For Galvanized Steel, Add	25.55	
05 12 23 00-0724			Rectangular Steel Tubing (05 12 23 00-0681)		
05 12 23 00-0725			3/16" Wall Thickness (05 12 23 00-0724)		
05 12 23 00-0726	LF		3" x 2" x 3/16" Square Steel Tubing.....	22.11	6.29
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.53	
			For >500 To 1,000, Deduct	-2.29	
			For >1,000, Deduct	-3.05	
			For 304 Stainless Steel, Add	39.10	
			For 316 Stainless Steel, Add	43.90	
			For Aluminum, Add	2.47	
			For Galvanized Steel, Add	8.51	
05 12 23 00-0727	LF		4" x 2" x 3/16" Square Steel Tubing.....	27.18	7.74
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.88	
			For >500 To 1,000, Deduct	-2.81	
			For >1,000, Deduct	-3.75	
			For 304 Stainless Steel, Add	48.05	
			For 316 Stainless Steel, Add	53.95	
			For Aluminum, Add	3.03	
			For Galvanized Steel, Add	10.45	
05 12 23 00-0728	LF		4" x 3" x 3/16" Square Steel Tubing.....	32.25	9.18
			For >100 To 250, Deduct	-1.42	
			For >250 To 500, Deduct	-2.22	
			For >500 To 1,000, Deduct	-3.34	
			For >1,000, Deduct	-4.45	
			For 304 Stainless Steel, Add	57.03	
			For 316 Stainless Steel, Add	64.03	
			For Aluminum, Add	3.60	
			For Galvanized Steel, Add	12.41	
05 12 23 00-0729	LF		5" x 2" x 3/16" Square Steel Tubing.....	32.25	9.18
			For >100 To 250, Deduct	-1.42	
			For >250 To 500, Deduct	-2.22	
			For >500 To 1,000, Deduct	-3.34	
			For >1,000, Deduct	-4.45	
			For 304 Stainless Steel, Add	57.03	
			For 316 Stainless Steel, Add	64.03	
			For Aluminum, Add	3.60	
			For Galvanized Steel, Add	12.41	
05 12 23 00-0730	LF		5" x 3" x 3/16" Square Steel Tubing.....	37.27	10.62
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.57	
			For >500 To 1,000, Deduct	-3.86	
			For >1,000, Deduct	-5.14	
			For 304 Stainless Steel, Add	65.89	
			For 316 Stainless Steel, Add	73.98	
			For Aluminum, Add	4.16	
			For Galvanized Steel, Add	14.33	
05 12 23 00-0731	LF		5" x 4" x 3/16" Square Steel Tubing.....	42.34	12.05
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.92	
			For >500 To 1,000, Deduct	-4.38	
			For >1,000, Deduct	-5.84	
			For 304 Stainless Steel, Add	74.87	
			For 316 Stainless Steel, Add	84.06	
			For Aluminum, Add	4.73	
			For Galvanized Steel, Add	16.29	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0732	LF		6" x 2" x 3/16" Square Steel Tubing.....	37.27	10.62
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.57	
			For >500 To 1,000, Deduct	-3.86	
			For >1,000, Deduct	-5.14	
			For 304 Stainless Steel, Add	65.89	
			For 316 Stainless Steel, Add	73.98	
			For Aluminum, Add	4.16	
			For Galvanized Steel, Add	14.33	
05 12 23 00-0733	LF		6" x 3" x 3/16" Square Steel Tubing.....	42.34	12.05
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.92	
			For >500 To 1,000, Deduct	-4.38	
			For >1,000, Deduct	-5.84	
			For 304 Stainless Steel, Add	74.87	
			For 316 Stainless Steel, Add	84.06	
			For Aluminum, Add	4.73	
			For Galvanized Steel, Add	16.29	
05 12 23 00-0734	LF		6" x 4" x 3/16" Square Steel Tubing.....	47.36	13.49
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-3.27	
			For >500 To 1,000, Deduct	-4.90	
			For >1,000, Deduct	-6.53	
			For 304 Stainless Steel, Add	83.73	
			For 316 Stainless Steel, Add	94.02	
			For Aluminum, Add	5.29	
			For Galvanized Steel, Add	18.22	
05 12 23 00-0735 1/4" Wall Thickness (05 12 23 00-0724)					
05 12 23 00-0736	LF		3" x 2" x 1/4" Square Steel Tubing.....	23.95	6.40
			For >100 To 250, Deduct	-1.03	
			For >250 To 500, Deduct	-1.63	
			For >500 To 1,000, Deduct	-2.44	
			For >1,000, Deduct	-3.25	
			For 304 Stainless Steel, Add	43.89	
			For 316 Stainless Steel, Add	49.28	
			For Aluminum, Add	2.77	
			For Galvanized Steel, Add	9.55	
05 12 23 00-0737	LF		4" x 2" x 1/4" Square Steel Tubing.....	29.68	7.94
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-2.01	
			For >500 To 1,000, Deduct	-3.02	
			For >1,000, Deduct	-4.03	
			For 304 Stainless Steel, Add	54.41	
			For 316 Stainless Steel, Add	61.09	
			For Aluminum, Add	3.44	
			For Galvanized Steel, Add	11.84	
05 12 23 00-0738	LF		4" x 3" x 1/4" Square Steel Tubing.....	35.40	9.48
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-2.40	
			For >500 To 1,000, Deduct	-3.60	
			For >1,000, Deduct	-4.80	
			For 304 Stainless Steel, Add	64.89	
			For 316 Stainless Steel, Add	72.86	
			For Aluminum, Add	4.10	
			For Galvanized Steel, Add	14.12	
05 12 23 00-0739	LF		5" x 2" x 1/4" Square Steel Tubing.....	35.40	9.48
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-2.40	
			For >500 To 1,000, Deduct	-3.60	
			For >1,000, Deduct	-4.80	
			For 304 Stainless Steel, Add	64.89	
			For 316 Stainless Steel, Add	72.86	
			For Aluminum, Add	4.10	
			For Galvanized Steel, Add	14.12	
05 12 23 00-0740	LF		5" x 3" x 1/4" Square Steel Tubing.....	41.12	11.00
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.79	
			For >500 To 1,000, Deduct	-4.18	
			For >1,000, Deduct	-5.58	
			For 304 Stainless Steel, Add	75.38	
			For 316 Stainless Steel, Add	84.64	
			For Aluminum, Add	4.76	
			For Galvanized Steel, Add	16.40	
05 12 23 00-0741	LF		5" x 4" x 1/4" Square Steel Tubing.....	46.86	12.54
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-3.18	
			For >500 To 1,000, Deduct	-4.77	
			For >1,000, Deduct	-6.36	
			For 304 Stainless Steel, Add	85.90	
			For 316 Stainless Steel, Add	96.45	
			For Aluminum, Add	5.43	
			For Galvanized Steel, Add	18.69	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0742 LF 6" x 2" x 1/4" Square Steel Tubing.....	41.12	11.00
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.79	
For >500 To 1,000, Deduct	-4.18	
For >1,000, Deduct	-5.58	
For 304 Stainless Steel, Add	75.38	
For 316 Stainless Steel, Add	84.64	
For Aluminum, Add	4.76	
For Galvanized Steel, Add	16.40	
05 12 23 00-0743 LF 6" x 3" x 1/4" Square Steel Tubing.....	46.86	12.54
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-3.18	
For >500 To 1,000, Deduct	-4.77	
For >1,000, Deduct	-6.36	
For 304 Stainless Steel, Add	85.90	
For 316 Stainless Steel, Add	96.45	
For Aluminum, Add	5.43	
For Galvanized Steel, Add	18.69	
05 12 23 00-0744 LF 6" x 4" x 1/4" Square Steel Tubing.....	52.61	14.08
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-3.57	
For >500 To 1,000, Deduct	-5.35	
For >1,000, Deduct	-7.14	
For 304 Stainless Steel, Add	96.44	
For 316 Stainless Steel, Add	108.29	
For Aluminum, Add	6.09	
For Galvanized Steel, Add	20.98	
05 12 23 00-0745 Round Steel Tubing (05 12 23 00-0681)		
05 12 23 00-0746 0.065" Wall Thickness (05 12 23 00-0745)		
05 12 23 00-0747 LF 1" Diameter x 0.065" Round Steel Tubing	4.85	1.17
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.48	
For >1,000, Deduct	-0.64	
For 304 Stainless Steel, Add	9.38	
For 316 Stainless Steel, Add	10.53	
For Aluminum, Add	0.59	
For Galvanized Steel, Add	2.04	
05 12 23 00-0748 LF 1-1/4" Diameter x 0.065" Round Steel Tubing	6.16	1.48
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.41	
For >500 To 1,000, Deduct	-0.61	
For >1,000, Deduct	-0.81	
For 304 Stainless Steel, Add	11.91	
For 316 Stainless Steel, Add	13.38	
For Aluminum, Add	0.75	
For Galvanized Steel, Add	2.59	
05 12 23 00-0749 LF 1-1/2" Diameter x 0.065" Round Steel Tubing	7.45	1.80
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-0.74	
For >1,000, Deduct	-0.98	
For 304 Stainless Steel, Add	14.42	
For 316 Stainless Steel, Add	16.19	
For Aluminum, Add	0.91	
For Galvanized Steel, Add	3.14	
05 12 23 00-0750 LF 2" Diameter x 0.065" Round Steel Tubing	10.05	2.42
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.00	
For >1,000, Deduct	-1.33	
For 304 Stainless Steel, Add	19.44	
For 316 Stainless Steel, Add	21.82	
For Aluminum, Add	1.23	
For Galvanized Steel, Add	4.23	
05 12 23 00-0751 LF 2-1/2" Diameter x 0.065" Round Steel Tubing	12.64	3.05
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.84	
For >500 To 1,000, Deduct	-1.25	
For >1,000, Deduct	-1.67	
For 304 Stainless Steel, Add	24.45	
For 316 Stainless Steel, Add	27.46	
For Aluminum, Add	1.54	
For Galvanized Steel, Add	5.32	
05 12 23 00-0752 LF 3" Diameter x 0.065" Round Steel Tubing	15.24	3.67
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.01	
For >500 To 1,000, Deduct	-1.51	
For >1,000, Deduct	-2.01	
For 304 Stainless Steel, Add	29.47	
For 316 Stainless Steel, Add	33.09	
For Aluminum, Add	1.86	
For Galvanized Steel, Add	6.41	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0753	LF		3-1/2" Diameter x 0.065" Round Steel Tubing	17.83	4.30
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-1.18	
			For >500 To 1,000, Deduct	-1.77	
			For >1,000, Deduct	-2.36	
			For 304 Stainless Steel, Add	34.49	
			For 316 Stainless Steel, Add	38.72	
			For Aluminum, Add	2.18	
			For Galvanized Steel, Add	7.50	
05 12 23 00-0754	LF		4" Diameter x 0.065" Round Steel Tubing	20.44	4.93
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.35	
			For >500 To 1,000, Deduct	-2.03	
			For >1,000, Deduct	-2.70	
			For 304 Stainless Steel, Add	39.53	
			For 316 Stainless Steel, Add	44.38	
			For Aluminum, Add	2.50	
			For Galvanized Steel, Add	8.60	
05 12 23 00-0755 0.083" Wall Thickness (05 12 23 00-0745)					
05 12 23 00-0756	LF		1" Diameter x 0.083" Round Steel Tubing	5.27	1.28
			For >100 To 250, Deduct	-0.22	
			For >250 To 500, Deduct	-0.35	
			For >500 To 1,000, Deduct	-0.52	
			For >1,000, Deduct	-0.70	
			For 304 Stainless Steel, Add	10.15	
			For 316 Stainless Steel, Add	11.39	
			For Aluminum, Add	0.64	
			For Galvanized Steel, Add	2.21	
05 12 23 00-0757	LF		1-1/4" Diameter x 0.083" Round Steel Tubing	6.71	1.64
			For >100 To 250, Deduct	-0.28	
			For >250 To 500, Deduct	-0.44	
			For >500 To 1,000, Deduct	-0.67	
			For >1,000, Deduct	-0.89	
			For 304 Stainless Steel, Add	12.94	
			For 316 Stainless Steel, Add	14.53	
			For Aluminum, Add	0.82	
			For Galvanized Steel, Add	2.81	
05 12 23 00-0758	LF		1-1/2" Diameter x 0.083" Round Steel Tubing	8.15	1.98
			For >100 To 250, Deduct	-0.34	
			For >250 To 500, Deduct	-0.54	
			For >500 To 1,000, Deduct	-0.81	
			For >1,000, Deduct	-1.08	
			For 304 Stainless Steel, Add	15.70	
			For 316 Stainless Steel, Add	17.63	
			For Aluminum, Add	0.99	
			For Galvanized Steel, Add	3.42	
05 12 23 00-0759	LF		2" Diameter x 0.083" Round Steel Tubing	11.03	2.68
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.73	
			For >500 To 1,000, Deduct	-1.10	
			For >1,000, Deduct	-1.46	
			For 304 Stainless Steel, Add	21.23	
			For 316 Stainless Steel, Add	23.84	
			For Aluminum, Add	1.34	
			For Galvanized Steel, Add	4.62	
05 12 23 00-0760	LF		2-1/2" Diameter x 0.083" Round Steel Tubing	13.91	3.38
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-0.92	
			For >500 To 1,000, Deduct	-1.38	
			For >1,000, Deduct	-1.84	
			For 304 Stainless Steel, Add	26.79	
			For 316 Stainless Steel, Add	30.08	
			For Aluminum, Add	1.69	
			For Galvanized Steel, Add	5.83	
05 12 23 00-0761	LF		3" Diameter x 0.083" Round Steel Tubing	16.77	4.08
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.11	
			For >500 To 1,000, Deduct	-1.67	
			For >1,000, Deduct	-2.22	
			For 304 Stainless Steel, Add	32.32	
			For 316 Stainless Steel, Add	36.29	
			For Aluminum, Add	2.04	
			For Galvanized Steel, Add	7.03	
05 12 23 00-0762	LF		3-1/2" Diameter x 0.083" Round Steel Tubing	19.65	4.78
			For >100 To 250, Deduct	-0.81	
			For >250 To 500, Deduct	-1.30	
			For >500 To 1,000, Deduct	-1.95	
			For >1,000, Deduct	-2.60	
			For 304 Stainless Steel, Add	37.85	
			For 316 Stainless Steel, Add	42.50	
			For Aluminum, Add	2.39	
			For Galvanized Steel, Add	8.23	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0763	LF		4" Diameter x 0.083" Round Steel Tubing	22.52	5.47
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.49	
			For >500 To 1,000, Deduct	-2.24	
			For >1,000, Deduct	-2.98	
			For 304 Stainless Steel, Add	43.38	
			For 316 Stainless Steel, Add	48.70	
			For Aluminum, Add	2.74	
			For Galvanized Steel, Add	9.44	
05 12 23 00-0764			0.125" Wall Thickness (05 12 23 00-0745)		
05 12 23 00-0765	LF		2" Diameter x 0.125" Round Steel Tubing	11.83	3.38
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.82	
			For >500 To 1,000, Deduct	-1.23	
			For >1,000, Deduct	-1.64	
			For 304 Stainless Steel, Add	20.83	
			For 316 Stainless Steel, Add	23.39	
			For Aluminum, Add	1.32	
			For Galvanized Steel, Add	4.53	
05 12 23 00-0766	LF		2-1/2" Diameter x 0.125" Round Steel Tubing	14.98	4.28
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.04	
			For >500 To 1,000, Deduct	-1.55	
			For >1,000, Deduct	-2.07	
			For 304 Stainless Steel, Add	26.39	
			For 316 Stainless Steel, Add	29.63	
			For Aluminum, Add	1.67	
			For Galvanized Steel, Add	5.74	
05 12 23 00-0767	LF		3" Diameter x 0.125" Round Steel Tubing	18.13	5.19
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.25	
			For >500 To 1,000, Deduct	-1.88	
			For >1,000, Deduct	-2.51	
			For 304 Stainless Steel, Add	31.95	
			For 316 Stainless Steel, Add	35.87	
			For Aluminum, Add	2.02	
			For Galvanized Steel, Add	6.95	
05 12 23 00-0768	LF		3-1/2" Diameter x 0.125" Round Steel Tubing	21.28	6.09
			For >100 To 250, Deduct	-0.94	
			For >250 To 500, Deduct	-1.47	
			For >500 To 1,000, Deduct	-2.21	
			For >1,000, Deduct	-2.94	
			For 304 Stainless Steel, Add	37.51	
			For 316 Stainless Steel, Add	42.11	
			For Aluminum, Add	2.37	
			For Galvanized Steel, Add	8.16	
05 12 23 00-0769	LF		4" Diameter x 0.125" Round Steel Tubing	24.43	6.99
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.69	
			For >500 To 1,000, Deduct	-2.53	
			For >1,000, Deduct	-3.38	
			For 304 Stainless Steel, Add	43.06	
			For 316 Stainless Steel, Add	48.35	
			For Aluminum, Add	2.72	
			For Galvanized Steel, Add	9.37	
05 12 23 00-0770			Flat Steel Bar (05 12 23 00-0422)		
05 12 23 00-0771			1/8" Thick (05 12 23 00-0770)		
05 12 23 00-0772	LF		1/8" Thick x 1" Wide Flat Steel Bar	3.62	1.69
			For 304 Stainless Steel, Add	3.11	
			For 316 Stainless Steel, Add	3.49	
			For Aluminum, Add	0.20	
			For Galvanized Steel, Add	0.68	
05 12 23 00-0773	LF		1/8" Thick x 2" Wide Flat Steel Bar	5.60	2.53
			For 304 Stainless Steel, Add	5.16	
			For 316 Stainless Steel, Add	5.79	
			For Aluminum, Add	0.33	
			For Galvanized Steel, Add	1.12	
05 12 23 00-0774	LF		1/8" Thick x 4" Wide Flat Steel Bar	8.62	3.56
			For 304 Stainless Steel, Add	9.38	
			For 316 Stainless Steel, Add	10.53	
			For Aluminum, Add	0.59	
			For Galvanized Steel, Add	2.04	
05 12 23 00-0775	LF		1/8" Thick x 6" Wide Flat Steel Bar	11.69	4.83
			For 304 Stainless Steel, Add	12.68	
			For 316 Stainless Steel, Add	14.24	
			For Aluminum, Add	0.80	
			For Galvanized Steel, Add	2.76	
05 12 23 00-0776			3/16" Thick (05 12 23 00-0770)		



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0777	LF		3/16" Thick x 1" Wide Flat Steel Bar	4.79	2.09
			For 304 Stainless Steel, Add	4.73	
			For 316 Stainless Steel, Add	5.31	
			For Aluminum, Add	0.30	
			For Galvanized Steel, Add	1.03	
05 12 23 00-0778	LF		3/16" Thick x 2" Wide Flat Steel Bar	7.57	3.13
			For 304 Stainless Steel, Add	8.15	
			For 316 Stainless Steel, Add	9.15	
			For Aluminum, Add	0.51	
			For Galvanized Steel, Add	1.77	
05 12 23 00-0779	LF		3/16" Thick x 4" Wide Flat Steel Bar	10.23	3.61
			For 304 Stainless Steel, Add	13.77	
			For 316 Stainless Steel, Add	15.46	
			For Aluminum, Add	0.87	
			For Galvanized Steel, Add	2.99	
05 12 23 00-0780	LF		3/16" Thick x 6" Wide Flat Steel Bar	14.17	5.00
			For 304 Stainless Steel, Add	19.01	
			For 316 Stainless Steel, Add	21.34	
			For Aluminum, Add	1.20	
			For Galvanized Steel, Add	4.14	
05 12 23 00-0781			1/4" Thick (05 12 23 00-0770)		
05 12 23 00-0782	LF		1/4" Thick x 1" Wide Flat Steel Bar	4.95	2.21
			For 304 Stainless Steel, Add	4.67	
			For 316 Stainless Steel, Add	5.25	
			For Aluminum, Add	0.30	
			For Galvanized Steel, Add	1.02	
05 12 23 00-0783	LF		1/4" Thick x 2" Wide Flat Steel Bar	8.28	3.31
			For 304 Stainless Steel, Add	9.43	
			For 316 Stainless Steel, Add	10.59	
			For Aluminum, Add	0.60	
			For Galvanized Steel, Add	2.05	
05 12 23 00-0784	LF		1/4" Thick x 4" Wide Flat Steel Bar	12.10	3.79
			For 304 Stainless Steel, Add	18.27	
			For 316 Stainless Steel, Add	20.51	
			For Aluminum, Add	1.15	
			For Galvanized Steel, Add	3.97	
05 12 23 00-0785	LF		1/4" Thick x 6" Wide Flat Steel Bar	17.50	5.60
			For 304 Stainless Steel, Add	25.91	
			For 316 Stainless Steel, Add	29.09	
			For Aluminum, Add	1.64	
			For Galvanized Steel, Add	5.64	
05 12 23 00-0786			3/8" Thick (05 12 23 00-0770)		
05 12 23 00-0787	LF		3/8" Thick x 1" Wide Flat Steel Bar	6.31	2.48
			For 304 Stainless Steel, Add	7.32	
			For 316 Stainless Steel, Add	8.22	
			For Aluminum, Add	0.46	
			For Galvanized Steel, Add	1.59	
05 12 23 00-0788	LF		3/8" Thick x 2" Wide Flat Steel Bar	10.34	3.73
			For 304 Stainless Steel, Add	13.51	
			For 316 Stainless Steel, Add	15.17	
			For Aluminum, Add	0.85	
			For Galvanized Steel, Add	2.94	
05 12 23 00-0789	LF		3/8" Thick x 4" Wide Flat Steel Bar	15.87	4.25
			For 304 Stainless Steel, Add	27.02	
			For 316 Stainless Steel, Add	30.34	
			For Aluminum, Add	1.71	
			For Galvanized Steel, Add	5.88	
05 12 23 00-0790	LF		3/8" Thick x 6" Wide Flat Steel Bar	22.81	6.29
			For 304 Stainless Steel, Add	38.02	
			For 316 Stainless Steel, Add	42.69	
			For Aluminum, Add	2.40	
			For Galvanized Steel, Add	8.27	
05 12 23 00-0791			1/2" Thick (05 12 23 00-0770)		
05 12 23 00-0792	LF		1/2" Thick x 1" Wide Flat Steel Bar	7.40	2.73
			For 304 Stainless Steel, Add	9.38	
			For 316 Stainless Steel, Add	10.53	
			For Aluminum, Add	0.59	
			For Galvanized Steel, Add	2.04	
05 12 23 00-0793	LF		1/2" Thick x 2" Wide Flat Steel Bar	12.21	4.11
			For 304 Stainless Steel, Add	17.24	
			For 316 Stainless Steel, Add	19.36	
			For Aluminum, Add	1.09	
			For Galvanized Steel, Add	3.75	
05 12 23 00-0794	LF		1/2" Thick x 4" Wide Flat Steel Bar	17.34	4.68
			For 304 Stainless Steel, Add	29.38	
			For 316 Stainless Steel, Add	32.99	
			For Aluminum, Add	1.86	
			For Galvanized Steel, Add	6.39	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0795 LF 1/2" Thick x 6" Wide Flat Steel Bar For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	30.97 58.62 65.82 3.70 12.75	6.93
05 12 23 00-0796 Flat Steel Plate (05 12 23 00-0422)		
05 12 23 00-0797 SF 1/8" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	18.64 22.12 24.83 1.40 4.81	7.24
05 12 23 00-0798 SF 3/16" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	20.97 27.67 31.07 1.75 6.02	7.50
05 12 23 00-0799 SF 1/4" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	25.00 35.28 39.62 2.23 7.68	8.40
05 12 23 00-0800 SF 3/8" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	33.62 55.38 62.18 3.50 12.05	9.45
05 12 23 00-0801 SF 1/2" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	39.81 68.97 77.44 4.36 15.00	10.39
05 12 23 00-0802 SF 3/4" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	64.92 129.39 145.28 8.17 28.15	12.88
05 12 23 00-0803 SF 1" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	86.55 177.16 198.91 11.19 38.54	16.10
05 12 33 Structural Steel for Bridges (05 12) See CSI section 05 12 23 00-0000 for structural steel, 34 05 43 00-0408 for bridge girder repair.		
05 14 Structural Aluminum Framing (05 10)		
05 14 13 Architecturally-Exposed Structural Aluminum Framing (05 14)		
05 14 13 00-0001 Rolled Or Plate Shapes (05 14 13) Note: 1" through 10" member.		
05 14 13 00-0002 LB Structural Aluminum, Up To 2,000 Lb. / Order 1" To 10" Rolled / Plate Structural Members.....	11.99	0.98
05 14 13 00-0003 LB Structural Aluminum, >2,000 - 9,999 Lb. / Order 1" To 10" Rolled / Plate Structural Members	10.54	0.91
05 14 13 00-0004 Aluminum Extrusions (05 14 13)		
05 14 13 00-0005 LB Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	18.80	4.08
05 14 13 00-0006 LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members.....	20.00	4.08
05 14 13 00-0007 Aluminum Tubing (05 14 13)		
05 14 13 00-0008 LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members.....	16.99	4.09
05 14 13 00-0009 LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness	14.38	6.61
05 14 13 00-0010 LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	17.60	7.21
05 14 13 00-0011 LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	20.17	8.41
05 14 13 00-0012 LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness	24.28	9.01
05 14 13 00-0013 LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness	75.27	11.41
05 14 13 00-0014 LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness	61.40	10.21
05 14 13 00-0015 Columns (05 14 13) Note: Baked on paint finish, load bearing.		
05 14 13 00-0016 Round Columns (05 14 13 00-0015)		
05 14 13 00-0017 LF 6" Diameter Aluminum Column.....	68.27	7.83
05 14 13 00-0018 LF 8" Diameter Aluminum Column.....	90.80	11.22
05 14 13 00-0019 LF 10" Diameter Aluminum Column.....	111.51	12.63
05 14 13 00-0020 LF 12" Diameter Aluminum Column.....	171.13	13.21
05 14 13 00-0021 LF 15" Diameter Aluminum Column.....	219.42	15.32
05 14 13 00-0022 EA 6" Diameter Aluminum Base And Cap.....	133.74	14.61
05 14 13 00-0023 EA 8" Diameter Aluminum Base And Cap.....	153.72	15.78



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Aluminum Framing	05 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0024	EA	10" Diameter Aluminum Base And Cap	195.63	17.54
05 14 13 00-0025	EA	12" Diameter Aluminum Base And Cap	345.93	18.70
05 14 13 00-0026	EA	15" Diameter Aluminum Base And Cap	535.18	20.46
05 14 13 00-0027 Octagonal Columns (05 14 13 00-0015)				
05 14 13 00-0028	LF	6" Diameter Aluminum Column	77.11	7.83
05 14 13 00-0029	LF	8" Diameter Aluminum Column	104.47	11.22
05 14 13 00-0030	LF	10" Diameter Aluminum Column	128.76	12.63
05 14 13 00-0031	LF	12" Diameter Aluminum Column	200.10	13.21
05 14 13 00-0032	LF	15" Diameter Aluminum Column	257.20	15.32
05 14 13 00-0033	EA	6" Diameter Aluminum Base And Cap	154.64	14.61
05 14 13 00-0034	EA	8" Diameter Aluminum Base And Cap	178.15	15.78
05 14 13 00-0035	EA	10" Diameter Aluminum Base And Cap	227.74	17.54
05 14 13 00-0036	EA	12" Diameter Aluminum Base And Cap	407.63	18.70
05 14 13 00-0037	EA	15" Diameter Aluminum Base And Cap	634.03	20.46
05 14 13 00-0038 Fluted Columns (05 14 13 00-0015)				
05 14 13 00-0039	LF	6" Diameter Aluminum Column	86.34	7.83
05 14 13 00-0040	LF	8" Diameter Aluminum Column	116.76	11.22
05 14 13 00-0041	LF	10" Diameter Aluminum Column	144.29	12.63
05 14 13 00-0042	LF	12" Diameter Aluminum Column	226.16	13.21
05 14 13 00-0043	LF	15" Diameter Aluminum Column	291.20	15.32
05 14 13 00-0044	EA	6" Diameter Aluminum Base And Cap	173.46	14.61
05 14 13 00-0045	EA	8" Diameter Aluminum Base And Cap	200.13	15.78
05 14 13 00-0046	EA	10" Diameter Aluminum Base And Cap	256.64	17.54
05 14 13 00-0047	EA	12" Diameter Aluminum Base And Cap	463.16	18.70
05 14 13 00-0048	EA	15" Diameter Aluminum Base And Cap	723.00	20.46
05 14 13 00-0049 Square Columns (05 14 13 00-0015)				
05 14 13 00-0050	LF	6" Aluminum Column	92.66	7.83
05 14 13 00-0051	LF	8" Aluminum Column	125.17	11.22
05 14 13 00-0052	LF	10" Aluminum Column	154.91	12.63
05 14 13 00-0053	LF	12" Aluminum Column	243.99	13.21
05 14 13 00-0054	LF	15" Aluminum Column	314.45	15.32
05 14 13 00-0055	EA	6" Aluminum Base And Cap	186.32	14.61
05 14 13 00-0056	EA	8" Aluminum Base And Cap	215.17	15.78
05 14 13 00-0057	EA	10" Aluminum Base And Cap	276.40	17.54
05 14 13 00-0058	EA	12" Aluminum Base And Cap	501.14	18.70
05 14 13 00-0059	EA	15" Aluminum Base And Cap	783.83	20.46
05 14 13 00-0060 Ornamental Or Decorative Cap And Bases (05 14 13 00-0015)				
05 14 13 00-0061	EA	8" Corinthian Capital And Base	1,099.14	17.54
05 14 13 00-0062	EA	10" Corinthian Capital And Base	1,621.11	20.46
05 14 13 00-0063	EA	12" Corinthian Capital And Base	2,570.52	23.39
05 14 13 00-0064	EA	8" Scamozzi Capital And Base	539.82	17.54
05 14 13 00-0065	EA	10" Scamozzi Capital And Base	725.29	20.46
05 14 13 00-0066	EA	12" Scamozzi Capital And Base	1,470.98	23.39

05 15 Wire Rope Assemblies (05 10)

05 15 16 Steel Wire Rope Assemblies (05 15)

05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)

05 15 16 00-0002	LF	1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	1.68	0.12
		For >500, Deduct	-0.29	
05 15 16 00-0003	LF	5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.25	0.12
		For >500, Deduct	-0.39	
05 15 16 00-0004	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.69	0.24
		For >500, Deduct	-0.44	
05 15 16 00-0005	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	3.23	0.24
		For >500, Deduct	-0.52	
05 15 16 00-0006	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	3.74	0.36
		For >500, Deduct	-0.58	
05 15 16 00-0007	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	4.59	0.48
		For >500, Deduct	-0.71	
05 15 16 00-0008	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	5.50	0.48
		For >500, Deduct	-0.84	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0009	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.62	0.84
		<i>For >500, Deduct</i>	-1.14	
05 15 16 00-0010	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.24	0.96
		<i>For >500, Deduct</i>	-1.53	
05 15 16 00-0011	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	12.77	1.32
		<i>For >500, Deduct</i>	-1.87	
05 15 16 00-0012	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	15.78	1.69
		<i>For >500, Deduct</i>	-2.31	
05 15 16 00-0013	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	19.23	2.04
		<i>For >500, Deduct</i>	-2.82	
05 15 16 00-0014 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)				
05 15 16 00-0015	LF	1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.97	0.12
		<i>For >500, Deduct</i>	-0.35	
05 15 16 00-0016	LF	5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.55	0.12
		<i>For >500, Deduct</i>	-0.45	
05 15 16 00-0017	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.17	0.24
		<i>For >500, Deduct</i>	-0.54	
05 15 16 00-0018	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.60	0.24
		<i>For >500, Deduct</i>	-0.59	
05 15 16 00-0019	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.28	0.36
		<i>For >500, Deduct</i>	-0.69	
05 15 16 00-0020	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.94	0.48
		<i>For >500, Deduct</i>	-0.78	
05 15 16 00-0021	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.79	0.48
		<i>For >500, Deduct</i>	-0.90	
05 15 16 00-0022	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.49	0.84
		<i>For >500, Deduct</i>	-1.32	
05 15 16 00-0023	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.88	0.96
		<i>For >500, Deduct</i>	-1.66	
05 15 16 00-0024	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.40	1.32
		<i>For >500, Deduct</i>	-2.01	
05 15 16 00-0025	LF	1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	17.15	1.69
		<i>For >500, Deduct</i>	-2.57	
05 15 16 00-0026	LF	1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	20.87	2.04
		<i>For >500, Deduct</i>	-3.14	
05 15 16 00-0027 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope (05 15 16)				
05 15 16 00-0028	LF	1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.56	0.12
		<i>For >500, Deduct</i>	-0.27	
05 15 16 00-0029	LF	5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.12	0.12
		<i>For >500, Deduct</i>	-0.36	
05 15 16 00-0030	LF	3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.53	0.24
		<i>For >500, Deduct</i>	-0.41	
05 15 16 00-0031	LF	7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.96	0.24
		<i>For >500, Deduct</i>	-0.47	
05 15 16 00-0032	LF	1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.57	0.36
		<i>For >500, Deduct</i>	-0.55	
05 15 16 00-0033	LF	9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.52	0.48
		<i>For >500, Deduct</i>	-0.69	
05 15 16 00-0034	LF	5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	5.28	0.48
		<i>For >500, Deduct</i>	-0.79	
05 15 16 00-0035	LF	3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	7.42	0.84
		<i>For >500, Deduct</i>	-1.10	
05 15 16 00-0036	LF	7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	9.10	0.96
		<i>For >500, Deduct</i>	-1.31	
05 15 16 00-0037	LF	1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	11.57	1.32
		<i>For >500, Deduct</i>	-1.63	
05 15 16 00-0038 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)				



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0039	LF	1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	1.54 -0.27	0.12
05 15 16 00-0040	LF	5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	2.04 -0.34	0.12
05 15 16 00-0041	LF	3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	2.53 -0.41	0.24
05 15 16 00-0042	LF	7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	2.96 -0.47	0.24
05 15 16 00-0043	LF	1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	3.72 -0.58	0.36
05 15 16 00-0044	LF	9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	4.44 -0.68	0.48
05 15 16 00-0045	LF	5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	5.57 -0.85	0.48
05 15 16 00-0046	LF	3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	7.77 -1.17	0.84
05 15 16 00-0047	LF	7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	10.17 -1.52	0.96
05 15 16 00-0048	LF	1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	12.54 -1.84	1.32
05 15 16 00-0049		6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope (05 15 16)		
05 15 16 00-0050	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	2.86 -0.48	0.24
05 15 16 00-0051	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.34 -0.54	0.24
05 15 16 00-0052	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.91 -0.62	0.36
05 15 16 00-0053	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.27 -0.84	0.48
05 15 16 00-0054	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.83 -0.90	0.48
05 15 16 00-0055	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	7.95 -1.21	0.84
05 15 16 00-0056	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	10.20 -1.53	0.96
05 15 16 00-0057	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	13.45 -2.01	1.32
05 15 16 00-0058	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	16.29 -2.41	1.69
05 15 16 00-0059	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	19.66 -2.90	2.04
05 15 16 00-0060		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope (05 15 16)		
05 15 16 00-0061	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	2.94 -0.49	0.24
05 15 16 00-0062	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.54 -0.58	0.24
05 15 16 00-0063	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	4.19 -0.67	0.36
05 15 16 00-0064	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.85 -0.96	0.48
05 15 16 00-0065	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.92 -0.92	0.48
05 15 16 00-0066	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	8.14 -1.25	0.84
05 15 16 00-0067	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	10.79 -1.64	0.96
05 15 16 00-0068	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	13.64 -2.05	1.32

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR
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TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 15 16 00-0069	19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope (05 15 16)		
05 15 16 00-0070	LF 1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.02	0.12
	For >500, Deduct	-0.56	
05 15 16 00-0071	LF 5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.25	0.12
	For >500, Deduct	-0.59	
05 15 16 00-0072	LF 3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.84	0.24
	For >500, Deduct	-0.68	
05 15 16 00-0073	LF 7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	5.15	0.24
	For >500, Deduct	-0.90	
05 15 16 00-0074	LF 1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	5.87	0.24
	For >500, Deduct	-1.05	
05 15 16 00-0075	LF 9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	6.79	0.48
	For >500, Deduct	-1.15	
05 15 16 00-0076	LF 5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	8.09	0.48
	For >500, Deduct	-1.36	
05 15 16 00-0077	LF 3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	11.13	0.72
	For >500, Deduct	-1.86	
05 15 16 00-0078	7x7, Galvanized Finish, Aircraft Cable (05 15 16)		
05 15 16 00-0079	LF 1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.34	0.08
	For >500, Deduct	-0.04	
05 15 16 00-0080	LF 3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.39	0.10
	For >500, Deduct	-0.05	
05 15 16 00-0081	LF 1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.44	0.11
	For >500, Deduct	-0.05	
05 15 16 00-0082	LF 5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.51	0.12
	For >500, Deduct	-0.06	
05 15 16 00-0083	LF 3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.63	0.12
	For >500, Deduct	-0.08	
05 15 16 00-0084	7x19, Galvanized Finish, Aircraft Cable (05 15 16)		
05 15 16 00-0085	LF 1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.62	0.11
	For >500, Deduct	-0.09	
05 15 16 00-0086	LF 5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.67	0.12
	For >500, Deduct	-0.10	
05 15 16 00-0087	LF 3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.77	0.12
	For >500, Deduct	-0.11	
05 15 16 00-0088	LF 1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.90	0.12
	For >500, Deduct	-0.14	
05 15 16 00-0089	LF 5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.36	0.12
	For >500, Deduct	-0.21	
05 15 16 00-0090	LF 3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.83	0.12
	For >500, Deduct	-0.27	
05 15 16 00-0091	Heavy-Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)		
05 15 16 00-0092	EA 1/4" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	15.43	3.61
05 15 16 00-0093	EA 5/16" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	17.54	3.61
05 15 16 00-0094	EA 3/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	19.88	3.61
05 15 16 00-0095	EA 7/16" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	26.31	3.61
05 15 16 00-0096	EA 1/2" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	26.34	3.61
05 15 16 00-0097	EA 9/16" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	26.34	3.61
05 15 16 00-0098	EA 5/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	28.52	3.61
05 15 16 00-0099	EA 3/4" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	52.18	5.53
05 15 16 00-0100	EA 7/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	61.56	6.73
05 15 16 00-0101	EA 1" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	109.64	11.05
05 15 16 00-0102	EA 1-1/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	157.47	15.02
05 15 16 00-0103	EA 1-1/4" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	157.47	15.02
05 15 16 00-0104	Galvanized Steel, Wire Rope Clips (05 15 16)		
05 15 16 00-0105	EA 1/8" Diameter, Galvanized Steel, Wire Rope Clip	18.83	3.61
05 15 16 00-0106	EA 3/16" Diameter, Galvanized Steel, Wire Rope Clip	19.25	3.61
05 15 16 00-0107	EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip	22.13	3.61
05 15 16 00-0108	EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip	22.58	3.61
05 15 16 00-0109	EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip	23.23	3.61
05 15 16 00-0110	EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip	29.42	3.61
05 15 16 00-0111	EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip	29.89	3.61
05 15 16 00-0112	EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip	34.34	3.61
05 15 16 00-0113	EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip	34.99	3.61



		Metals	05	05
		Structural Metal Framing	05 10	
		Wire Rope Assemblies	05 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0114 EA 3/4" Diameter, Galvanized Steel, Wire Rope Clip	47.82	4.81
05 15 16 00-0115 EA 7/8" Diameter, Galvanized Steel, Wire Rope Clip	71.38	7.21
05 15 16 00-0116 EA 1" Diameter, Galvanized Steel, Wire Rope Clip	78.68	7.21
05 15 16 00-0117 EA 1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	92.21	9.62
05 15 16 00-0118 EA 1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	133.92	14.42
05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)		
05 15 16 00-0120 EA 1/4" Diameter, Steel, Open Swage Socket	104.97	3.61
05 15 16 00-0121 EA 5/16" Diameter, Steel, Open Swage Socket	167.75	3.61
05 15 16 00-0122 EA 3/8" Diameter, Steel, Open Swage Socket	172.50	4.81
05 15 16 00-0123 EA 7/16" Diameter, Steel, Open Swage Socket	204.90	6.01
05 15 16 00-0124 EA 1/2" Diameter, Steel, Open Swage Socket	204.90	6.01
05 15 16 00-0125 EA 9/16" Diameter, Steel, Open Swage Socket	298.70	13.22
05 15 16 00-0126 EA 5/8" Diameter, Steel, Open Swage Socket	298.70	13.22
05 15 16 00-0127 EA 3/4" Diameter, Steel, Open Swage Socket	379.81	25.23
05 15 16 00-0128 EA 7/8" Diameter, Steel, Open Swage Socket	510.85	36.05
05 15 16 00-0129 EA 1" Diameter, Steel, Open Swage Socket	717.95	55.27
05 15 16 00-0130 EA 1-1/8" Diameter, Steel, Open Swage Socket	939.35	86.52
05 15 16 00-0131 EA 1-1/4" Diameter, Steel, Open Swage Socket	1,093.65	99.74
05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)		
05 15 16 00-0133 EA 1/4" Diameter, Steel, Closed Swage Socket	84.29	3.61
05 15 16 00-0134 EA 5/16" Diameter, Steel, Closed Swage Socket	114.37	3.61
05 15 16 00-0135 EA 3/8" Diameter, Steel, Closed Swage Socket	114.37	3.61
05 15 16 00-0136 EA 7/16" Diameter, Steel, Closed Swage Socket	142.43	4.81
05 15 16 00-0137 EA 1/2" Diameter, Steel, Closed Swage Socket	143.76	4.81
05 15 16 00-0138 EA 9/16" Diameter, Steel, Closed Swage Socket	196.67	8.41
05 15 16 00-0139 EA 5/8" Diameter, Steel, Closed Swage Socket	202.39	9.62
05 15 16 00-0140 EA 3/4" Diameter, Steel, Closed Swage Socket	249.66	15.62
05 15 16 00-0141 EA 7/8" Diameter, Steel, Closed Swage Socket	322.02	22.83
05 15 16 00-0142 EA 1" Diameter, Steel, Closed Swage Socket	460.64	31.24
05 15 16 00-0143 EA 1-1/8" Diameter, Steel, Closed Swage Socket	569.99	43.26
05 15 16 00-0144 EA 1-1/4" Diameter, Steel, Closed Swage Socket	770.55	67.30
05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)		
05 15 16 00-0146 EA 1/4" Galvanized Steel, Open Spelter Socket	176.27	3.61
05 15 16 00-0147 EA 5/16" Galvanized Steel, Open Spelter Socket	180.59	3.61
05 15 16 00-0148 EA 3/8" Galvanized Steel, Open Spelter Socket	180.59	3.61
05 15 16 00-0149 EA 7/16" Galvanized Steel, Open Spelter Socket	201.09	7.21
05 15 16 00-0150 EA 1/2" Galvanized Steel, Open Spelter Socket	201.09	7.21
05 15 16 00-0151 EA 9/16" Galvanized Steel, Open Spelter Socket	263.00	12.02
05 15 16 00-0152 EA 5/8" Galvanized Steel, Open Spelter Socket	263.00	12.02
05 15 16 00-0153 EA 3/4" Galvanized Steel, Open Spelter Socket	332.27	18.02
05 15 16 00-0154 EA 7/8" Galvanized Steel, Open Spelter Socket	496.38	30.04
05 15 16 00-0155 EA 1" Galvanized Steel, Open Spelter Socket	904.92	46.86
05 15 16 00-0156 EA 1-1/8" Galvanized Steel, Open Spelter Socket	1,058.25	75.70
05 15 16 00-0157 EA 1-1/4" Galvanized Steel, Open Spelter Socket	1,430.78	99.74
05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)		
05 15 16 00-0159 EA 1/4" Galvanized Steel, Closed Spelter Socket	147.66	3.61
05 15 16 00-0160 EA 5/16" Galvanized Steel, Closed Spelter Socket	148.23	3.61
05 15 16 00-0161 EA 3/8" Galvanized Steel, Closed Spelter Socket	148.23	3.61
05 15 16 00-0162 EA 7/16" Galvanized Steel, Closed Spelter Socket	165.59	6.01
05 15 16 00-0163 EA 1/2" Galvanized Steel, Closed Spelter Socket	165.59	6.01
05 15 16 00-0164 EA 9/16" Galvanized Steel, Closed Spelter Socket	231.02	10.82
05 15 16 00-0165 EA 5/8" Galvanized Steel, Closed Spelter Socket	231.02	10.82
05 15 16 00-0166 EA 3/4" Galvanized Steel, Closed Spelter Socket	282.49	15.62
05 15 16 00-0167 EA 7/8" Galvanized Steel, Closed Spelter Socket	412.21	24.03
05 15 16 00-0168 EA 1" Galvanized Steel, Closed Spelter Socket	622.18	37.25
05 15 16 00-0169 EA 1-1/8" Galvanized Steel, Closed Spelter Socket	814.25	50.47
05 15 16 00-0170 EA 1-1/4" Galvanized Steel, Closed Spelter Socket	1,024.87	67.30
05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)		
05 15 16 00-0172 EA 1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle	101.29	3.61
For "Eye And Eye" Or "Hook And Hook" Turnbuckle, Deduct	-13.39	
05 15 16 00-0173 EA 5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle	108.72	3.61
For "Eye And Eye" Or "Hook And Hook" Turnbuckle, Deduct	-14.51	
05 15 16 00-0174 EA 3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	122.47	3.61
For "Eye And Eye" Or "Hook And Hook" Turnbuckle, Deduct	-16.57	
05 15 16 00-0175 EA 1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle	135.09	4.81
For "Eye And Eye" Or "Hook And Hook" Turnbuckle, Deduct	-17.24	
05 15 16 00-0176 EA 1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle	177.94	6.01
For "Eye And Eye" Or "Hook And Hook" Turnbuckle, Deduct	-22.94	
05 15 16 00-0177 EA 1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	202.10	7.21
For "Eye And Eye" Or "Hook And Hook" Turnbuckle, Deduct	-25.97	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0178 EA 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	205.00 -25.20	9.62
05 15 16 00-0179 EA 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	254.19 -32.12	9.62
05 15 16 00-0180 EA 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	288.87 -36.89	10.82
05 15 16 00-0181 EA 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	276.31 -33.78	13.22
05 15 16 00-0182 EA 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	314.05 -37.62	15.62
05 15 16 00-0183 EA 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	388.80 -48.02	16.82
05 15 16 00-0184 EA 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	467.71 -57.73	20.42
05 15 16 00-0185 EA 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	530.30 -62.38	28.84
05 15 16 00-0186 EA 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	643.77 -76.54	33.65
05 15 16 00-0187 EA 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	551.34 -65.54	28.84
05 15 16 00-0188 EA 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	628.90 -71.80	37.25
05 15 16 00-0189 EA 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	864.47 -101.94	46.86
05 15 16 00-0190 EA 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	965.51 -112.05	55.27
05 15 16 00-0191 EA 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,073.42 -120.96	67.30
05 15 16 00-0192 EA 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,298.28 -149.68	75.70
05 15 16 00-0193 EA 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,686.39 -201.46	86.52
05 15 16 00-0194 EA 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,664.26 -194.18	92.53
05 15 16 00-0195 EA 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,823.73 -201.46	120.17
05 15 16 00-0196 EA 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	3,311.25 -406.56	156.22
05 15 16 00-0197 EA 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	5,408.85 -631.08	300.41

05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)

05 15 16 00-0199 EA 1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	21.74
05 15 16 00-0200 EA 5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	21.84
05 15 16 00-0201 EA 3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	24.64
05 15 16 00-0202 EA 7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	29.44
05 15 16 00-0203 EA 1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	29.31
05 15 16 00-0204 EA 5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	40.12
05 15 16 00-0205 EA 3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	48.24
05 15 16 00-0206 EA 7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	65.25
05 15 16 00-0207 EA 1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	87.61
05 15 16 00-0208 EA 1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	127.59
05 15 16 00-0209 EA 1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	151.82
05 15 16 00-0210 EA 1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	276.22
05 15 16 00-0211 EA 1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	316.83
05 15 16 00-0212 EA 2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	391.90

05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)

05 15 16 00-0214 EA 1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	28.64
05 15 16 00-0215 EA 1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.82
05 15 16 00-0216 EA 5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	35.11
05 15 16 00-0217 EA 5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.49
05 15 16 00-0218 EA 3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.80
05 15 16 00-0219 EA 3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	48.04
05 15 16 00-0220 EA 3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	46.55
05 15 16 00-0221 EA 3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	44.23
05 15 16 00-0222 EA 3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	39.62
05 15 16 00-0223 EA 3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	40.92
05 15 16 00-0224 EA 1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.14
05 15 16 00-0225 EA 1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	28.76
05 15 16 00-0226 EA 1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	37.53
05 15 16 00-0227 EA 1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	51.33
05 15 16 00-0228 EA 1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	38.92
05 15 16 00-0229 EA 1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	62.76
05 15 16 00-0230 EA 1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	55.22
05 15 16 00-0231 EA 1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	50.36
05 15 16 00-0232 EA 1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	59.28
05 15 16 00-0233 EA 5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	60.15
05 15 16 00-0234 EA 5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	53.53
05 15 16 00-0235 EA 5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	67.40



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0236 EA 5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	77.32	
05 15 16 00-0237 EA 5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	89.21	
05 15 16 00-0238 EA 5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	73.65	
05 15 16 00-0239 EA 3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	73.62	
05 15 16 00-0240 EA 3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	75.08	
05 15 16 00-0241 EA 3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	83.03	
05 15 16 00-0242 EA 3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	89.57	
05 15 16 00-0243 EA 3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	104.73	
05 15 16 00-0244 EA 1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	138.75	

05 15 19 Stainless Steel Wire Rope Assemblies (05 15)

05 15 19 00-0001	7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)		
05 15 19 00-0002	LF 1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.30	0.08
	For >500, Deduct	-0.03	
05 15 19 00-0003	LF 3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.38	0.10
	For >500, Deduct	-0.05	
05 15 19 00-0004	LF 1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.49	0.11
	For >500, Deduct	-0.06	
05 15 19 00-0005	LF 5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.64	0.12
	For >500, Deduct	-0.09	
05 15 19 00-0006	LF 3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.79	0.12
	For >500, Deduct	-0.11	
05 15 19 00-0007	7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)		
05 15 19 00-0008	LF 1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.55	0.11
	For >500, Deduct	-0.08	
05 15 19 00-0009	LF 5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.64	0.12
	For >500, Deduct	-0.09	
05 15 19 00-0010	LF 3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.75	0.12
	For >500, Deduct	-0.11	
05 15 19 00-0011	LF 1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.94	0.12
	For >500, Deduct	-0.15	
05 15 19 00-0012	LF 5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	1.43	0.12
	For >500, Deduct	-0.22	
05 15 19 00-0013	LF 3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	2.15	0.24
	For >500, Deduct	-0.34	
05 15 19 00-0014	7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)		
05 15 19 00-0015	LF 1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.30	0.08
	For >500, Deduct	-0.03	
05 15 19 00-0016	LF 3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.38	0.10
	For >500, Deduct	-0.05	
05 15 19 00-0017	LF 1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.49	0.11
	For >500, Deduct	-0.06	
05 15 19 00-0018	LF 5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.64	0.12
	For >500, Deduct	-0.09	
05 15 19 00-0019	LF 3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.79	0.12
	For >500, Deduct	-0.11	
05 15 19 00-0020	7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)		
05 15 19 00-0021	LF 1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.55	0.11
	For >500, Deduct	-0.08	
05 15 19 00-0022	LF 5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.64	0.12
	For >500, Deduct	-0.09	
05 15 19 00-0023	LF 3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.75	0.12
	For >500, Deduct	-0.11	
05 15 19 00-0024	LF 1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.94	0.12
	For >500, Deduct	-0.15	
05 15 19 00-0025	LF 5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.43	0.12
	For >500, Deduct	-0.22	
05 15 19 00-0026	LF 3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	2.15	0.12
	For >500, Deduct	-0.34	

05 40 Cold-Formed Metal Framing (05)

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing (05 40)

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

05 41 00 00-0001	18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assemblies (05 41)

05 Metals**05 40 Cold-Formed Metal Framing****05 41 Structural Metal Stud Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0002	SF		2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	6.20	1.21
			For Walls >10' High, Add	1.24	
			For Curved Wall, Add	0.85	
			For Up To 200, Add	1.80	
			For >200 To 500, Add	0.90	
			For 12" On Center, Add	1.10	
			For 24" On Center, Deduct	-1.10	
05 41 00 00-0003	SF		3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	6.92	1.21
			For Walls >10' High, Add	1.38	
			For Curved Wall, Add	0.89	
			For Up To 200, Add	1.98	
			For >200 To 500, Add	0.99	
			For 12" On Center, Add	1.24	
			For 24" On Center, Deduct	-1.24	
05 41 00 00-0004	SF		4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	7.22	1.21
			For Walls >10' High, Add	1.44	
			For Curved Wall, Add	0.92	
			For Up To 200, Add	2.06	
			For >200 To 500, Add	1.03	
			For 12" On Center, Add	1.29	
			For 24" On Center, Deduct	-1.29	
05 41 00 00-0005	SF		6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	9.19	1.34
			For Walls >10' High, Add	1.84	
			For Curved Wall, Add	0.97	
			For Up To 200, Add	2.48	
			For >200 To 500, Add	1.24	
			For 12" On Center, Add	1.68	
			For 24" On Center, Deduct	-1.68	
05 41 00 00-0006	SF		8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	10.26	1.48
			For Walls >10' High, Add	2.05	
			For Curved Wall, Add	1.01	
			For Up To 200, Add	2.72	
			For >200 To 500, Add	1.36	
			For 12" On Center, Add	1.88	
			For 24" On Center, Deduct	-1.88	
05 41 00 00-0007			16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assemblies (05 41)		
05 41 00 00-0008	SF		2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	6.66	1.21
			For Walls >10' High, Add	1.33	
			For Curved Wall, Add	0.89	
			For Up To 200, Add	1.92	
			For >200 To 500, Add	0.96	
			For 12" On Center, Add	1.18	
			For 24" On Center, Deduct	-1.18	
05 41 00 00-0009	SF		3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	7.71	1.22
			For Walls >10' High, Add	1.54	
			For Curved Wall, Add	0.93	
			For Up To 200, Add	2.16	
			For >200 To 500, Add	1.08	
			For 12" On Center, Add	1.39	
			For 24" On Center, Deduct	-1.39	
05 41 00 00-0010	SF		4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	8.13	1.22
			For Walls >10' High, Add	1.63	
			For Curved Wall, Add	0.97	
			For Up To 200, Add	2.27	
			For >200 To 500, Add	1.14	
			For 12" On Center, Add	1.46	
			For 24" On Center, Deduct	-1.46	
05 41 00 00-0011	SF		6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	10.28	1.48
			For Walls >10' High, Add	2.06	
			For Curved Wall, Add	1.02	
			For Up To 200, Add	2.73	
			For >200 To 500, Add	1.37	
			For 12" On Center, Add	1.89	
			For 24" On Center, Deduct	-1.89	
05 41 00 00-0012	SF		8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly.....	11.33	1.61
			For Walls >10' High, Add	2.27	
			For Curved Wall, Add	1.07	
			For Up To 200, Add	2.98	
			For >200 To 500, Add	1.49	
			For 12" On Center, Add	2.09	
			For 24" On Center, Deduct	-2.09	



	Metals	05	
	Cold-Formed Metal Framing	05 40	05
	Structural Metal Stud Framing	05 41	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assemblies (05 41)

05 41 00 00-0014	SF	3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	9.15	1.67
		For Walls >10' High, Add	1.83	
		For Curved Wall, Add	1.12	
		For Up To 200, Add	2.57	
		For >200 To 500, Add	1.29	
		For 12" On Center, Add	1.64	
		For 24" On Center, Deduct	-1.64	
05 41 00 00-0015	SF	4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	9.41	1.70
		For Walls >10' High, Add	1.88	
		For Curved Wall, Add	1.14	
		For Up To 200, Add	2.64	
		For >200 To 500, Add	1.32	
		For 12" On Center, Add	1.69	
		For 24" On Center, Deduct	-1.69	
05 41 00 00-0016	SF	6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	11.82	1.79
		For Walls >10' High, Add	2.36	
		For Curved Wall, Add	1.20	
		For Up To 200, Add	3.16	
		For >200 To 500, Add	1.58	
		For 12" On Center, Add	2.16	
		For 24" On Center, Deduct	-2.16	
05 41 00 00-0017	SF	8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners Assembly	12.97	1.87
		For Walls >10' High, Add	2.59	
		For Curved Wall, Add	1.25	
		For Up To 200, Add	3.43	
		For >200 To 500, Add	1.71	
		For 12" On Center, Add	2.39	
		For 24" On Center, Deduct	-2.39	

05 42 Cold-Formed Metal Joist Framing (05 40)

05 42 13 Cold-Formed Metal Floor Joist Framing (05 42)

Note: Floor or roof joist framing

05 42 13 00-0001 Steel Joists, 20 Gauge (05 42 13)

05 42 13 00-0002	LF	5-1/2" - 20 Gauge Steel Joists	13.09	2.88
05 42 13 00-0003	LF	6" - 20 Gauge Steel Joists	14.26	3.62
05 42 13 00-0004	LF	7-1/4" - 20 Gauge Steel Joists	15.43	3.97
05 42 13 00-0005	LF	8" - 20 Gauge Steel Joists	17.31	4.23

05 42 13 00-0006 Steel Joists, 18 Gauge (05 42 13)

05 42 13 00-0007	LF	5-1/2" - 18 Gauge Steel Joists	14.58	3.20
05 42 13 00-0008	LF	6" - 18 Gauge Steel Joists	15.93	4.03
05 42 13 00-0009	LF	7-1/4" - 18 Gauge Steel Joists	17.27	4.41
05 42 13 00-0010	LF	8" - 18 Gauge Steel Joists	17.77	4.69

05 42 13 00-0011 Steel Joists, 16 Gauge (05 42 13)

05 42 13 00-0012	LF	7-1/4" - 16 Gauge Steel Joists	18.68	4.45
05 42 13 00-0013	LF	8" - 16 Gauge Steel Joists	19.73	4.69

05 42 13 00-0014 Steel Joists, 14 Gauge (05 42 13)

05 42 13 00-0015	LF	9-1/4" - 14 Gauge Steel Joists	22.29	4.69
05 42 13 00-0016	LF	11-1/2" - 14 Gauge Steel Joists	24.23	4.94

05 42 13 00-0017 Steel Joists, 12 Gauge (05 42 13)

05 42 13 00-0018	LF	9-1/4" - 12 Gauge Steel Joists	26.56	5.16
05 42 13 00-0019	LF	11-1/2" - 12 Gauge Steel Joists	29.05	5.45

05 42 13 00-0020 Steel Joists, 10 Gauge (05 42 13)

05 42 13 00-0021	LF	9-1/4" - 10 Gauge Steel Joists	30.88	5.69
05 42 13 00-0022	LF	11-1/2" - 10 Gauge Steel Joists	33.96	5.98

05 42 13 00-0023 Steel Joists, 8 Gauge (05 42 13)

05 42 13 00-0024	LF	9-1/4" - 8 Gauge Steel Joists	35.30	6.25
05 42 13 00-0025	LF	11-1/2" - 8 Gauge Steel Joists	38.90	6.58

05 42 23 Cold-Formed Metal Roof Joist Framing (05 42)

05 Metals**05 40 Cold-Formed Metal Framing****05 42 Cold-Formed Metal Joist Framing**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

See CSI section 05 42 13 00-0000 for metal joist framing.

05 43 Slotted Channel Framing (05 40)

05 43 00 00-0001	Metal Framing Channel (05 43)		
	Note: Excludes fasteners and accessories. See CSI section 26 05 29 00-0001 for Unistrut framing channels with Electrical Crews.		
05 43 00 00-0002	Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0003	LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	14.61	2.71
	For Powder Coating, Add	1.38	
	For Galvanizing, Add	1.56	
05 43 00 00-0004	LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	15.06	2.71
	For Powder Coating, Add	1.44	
	For Galvanizing, Add	1.64	
05 43 00 00-0005	LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	15.74	2.71
	For Powder Coating, Add	1.55	
	For Galvanizing, Add	1.75	
05 43 00 00-0006	LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	13.72	2.71
	For Powder Coating, Add	1.24	
	For Galvanizing, Add	1.41	
05 43 00 00-0007	LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	11.77	2.71
	For Powder Coating, Add	0.95	
	For Galvanizing, Add	1.08	
05 43 00 00-0008	Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009	304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010	LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	25.55	2.71
05 43 00 00-0011	LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	30.46	2.71
05 43 00 00-0012	LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	29.24	2.71
05 43 00 00-0013	LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	36.83	2.71
05 43 00 00-0014	316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015	LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	41.49	2.71
05 43 00 00-0016	Aluminum Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0017	LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel	14.03	2.71
05 43 00 00-0018	LF 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel	10.63	2.71
05 43 00 00-0019	Metal Framing Channel Fittings (05 43)		
05 43 00 00-0020	Unistrut Closure Strips (05 43 00 00-0019)		
05 43 00 00-0021	LF Steel Raceway Closure Strip For Unistrut Channel	9.09	0.60
05 43 00 00-0022	Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0019)		
	Note: Includes hex bolt.		
05 43 00 00-0023	Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0022)		
	Note: Includes hex bolt.		
05 43 00 00-0024	EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel	9.06	
05 43 00 00-0025	EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	10.14	
05 43 00 00-0026	EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel	10.95	
05 43 00 00-0027	EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel	15.33	
05 43 00 00-0028	Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0022)		
	Note: Includes hex bolt.		
05 43 00 00-0029	EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	15.40	
05 43 00 00-0030	EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	16.47	
05 43 00 00-0031	EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	23.00	
05 43 00 00-0032	EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	37.30	
05 43 00 00-0033	Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0019)		
	Note: Includes hex bolt.		
05 43 00 00-0034	Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0033)		
	Note: Includes hex bolt.		
05 43 00 00-0035	EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	9.09	
05 43 00 00-0036	EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	10.29	
05 43 00 00-0037	EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	11.01	
05 43 00 00-0038	EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	16.59	
05 43 00 00-0039	Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0033)		
	Note: Includes hex bolt.		
05 43 00 00-0040	EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	11.43	
05 43 00 00-0041	EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.67	



	Metals	05	05
	Cold-Formed Metal Framing	05 40	
	Slotted Channel Framing	05 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0042 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	15.10	
05 43 00 00-0043 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	36.37	
05 43 00 00-0044 Beam Clamp For Unistrut Channel (05 43 00 00-0019)		
05 43 00 00-0045 EA 1-5/8" Channel, P2675 Unistrut Beam Clamp.....	25.32	9.01
05 43 00 00-0046 EA 1-5/8" Channel, P2676 Unistrut Beam Clamp.....	32.11	9.01
05 43 00 00-0047 EA Add For Unistrut Swivel Nut, P2676	3.70	
05 43 00 00-0048 Beam Clamp Clevis Hangers For Unistrut Channel (05 43 00 00-0019)		
05 43 00 00-0049 EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	27.68	9.01
05 43 00 00-0050 EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	33.08	9.01
05 43 00 00-0051 EA Add For Unistrut Swivel Nut.....	3.70	
05 43 00 00-0052 EA 6-Hole Electrogalvanized Steel Shelf Bracket For Unistrut.....	190.79	12.02
05 43 00 00-0053 Accessories For Unistrut Channel (05 43 00 00-0019)		
05 43 00 00-0054 EA Trolley Truck Hanger, 1-5/8" Channel P1834	62.91	9.01
05 43 00 00-0055 EA Flat Plate Fitting, One Hole, 1-5/8" Channel P1064.....	15.76	6.01
05 43 00 00-0056 EA 60 Degree Angle, 1-5/8" Channel P2097	16.51	6.01
05 43 00 00-0057 Bases For Unistrut Channel (05 43 00 00-0019)		
05 43 00 00-0058 Steel Bases For Unistrut Channel (05 43 00 00-0057)		
Note: Includes straight or angled post mounting and fasteners.		
05 43 00 00-0059 EA 6" x 6", 1-5/8" Height, Single Post, Steel Base For Unistrut Channel	119.71	30.05
05 43 00 00-0060 EA 6" x 6", 3-1/2" Height, Single Post, Steel Base For Unistrut Channel	121.29	30.05
05 43 00 00-0061 EA 6" x 6", 1-5/8" Height, Double Post, Steel Base For Unistrut Channel	174.45	30.05
05 43 00 00-0062 EA 6" x 6", 3-1/2" Height, Double Post, Steel Base For Unistrut Channel	143.36	30.05
05 43 00 00-0063 Stainless Steel Bases For Unistrut Channel (05 43 00 00-0057)		
Note: Includes straight or angled post mounting and fasteners.		
05 43 00 00-0064 EA 6" x 6", 1-5/8" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel.....	241.12	30.05
05 43 00 00-0065 EA 6" x 6", 3-1/2" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel.....	439.37	30.05
05 43 00 00-0066 EA 6" x 6", 3-1/2" Height, Double Post, 304 Stainless Steel Base For Unistrut Channel	332.99	30.05
05 43 00 00-0067 EA 6" x 6", 1-5/8" Height, Single Post, 316 Stainless Steel Base For Unistrut Channel.....	493.58	30.05
05 43 00 00-0068 EA 6" x 6", 3-1/2" Height, Double Post, 316 Stainless Steel Base For Unistrut Channel	431.05	30.05
05 45 Metal Support Assemblies (05 40)		
05 45 16 Electrical Metal Supports (05 45)		
See CSI section 26 05 29 00-0000 for metal supports.		
05 50 Metal Fabrications (05)		
05 51 Metal Stairs (05 50)		
05 51 13 Metal Pan Stairs (05 51)		
Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail.		
See CSI section 05 52 13 00-0000 for handrails.		
05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing (05 51 13)		
Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002 RSR 3'-6" Wide Open Concrete Filled Metal Pan Tread Stair.....	1,071.08	35.07
For Closed Riser, Add		123.72
05 51 13 00-0003 RSR 4'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	1,217.09	40.92
For Closed Riser, Add		140.44
05 51 13 00-0004 RSR 5'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	1,355.68	47.93
For Closed Riser, Add		156.11
05 51 13 00-0005 SF Concrete Filled Steel Pan Landing	90.39	5.85
Note: Conventional shape.		
05 51 19 Metal Grating Stairs (05 51)		
Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing (05 51 19)		
Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002 RSR 3'-6" Wide Open Steel Grating Tread Metal Stair	520.03	46.76
For Closed Riser, Add		62.46
For Galvanized Steel, Add		106.63
05 51 19 00-0003 RSR 4'-0" Wide Open Steel Grating Tread Metal Stair	554.37	53.78
For Closed Riser, Add		66.15
For Galvanized Steel, Add		111.70
05 51 19 00-0004 RSR 5'-0" Wide Open Steel Grating Tread Metal Stair	613.69	63.13
For Closed Riser, Add		72.84
For Galvanized Steel, Add		121.86

05 Metals**05 50 Metal Fabrications****05 51 Metal Stairs**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 19 00-0005	SF	Steel Grating Landing With Framing And 2 Pipe Handrail Note: Conventional shape. For Galvanized Steel, Add	96.50 18.28	5.85
05 51 33		Metal Ladders (05 51) Note: Includes factory prime.		
05 51 33 13		Vertical Metal Ladders (05 51 33)		
05 51 33 13-0001		Vertical Ladders (05 51 33 13) Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"		
05 51 33 13-0002	VLF	20" Wide Fixed Vertical Steel Ladder Primed For Galvanized Steel, Add For Aluminum, Add	95.57 12.89 25.78	14.03
05 51 33 13-0003	VLF	24" Wide Fixed Vertical Steel Ladder Primed For Galvanized Steel, Add For Aluminum, Add	108.64 16.16 32.32	14.03
05 51 33 13-0004	VLF	20" Wide Fixed Vertical Steel Caged Ladder Primed For Galvanized Steel, Add For Aluminum, Add	224.31 37.45 74.89	23.39
05 51 33 13-0005	VLF	24" Wide Fixed Vertical Steel Caged Ladder Primed For Galvanized Steel, Add For Aluminum, Add	250.44 43.98 87.96	23.39
05 51 33 13-0006		Vertical Ladders Options (05 51 33 13)		
05 51 33 13-0007	EA	20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket. For Galvanized Steel, Add For Aluminum, Add	373.25 71.39 142.79	43.84
05 51 33 13-0008	EA	24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket. For Galvanized Steel, Add For Aluminum, Add	408.50 78.74 157.49	46.76
05 51 33 13-0009	EA	Security Cage Entry Gate With Lockable Hasp	437.51	14.61
05 51 33 13-0010	EA	6' Powder Coated, Security Ladder Guard	1,189.57	87.68
05 51 33 13-0011	EA	8' Powder Coated, Security Ladder Guard	1,422.47	102.30
05 51 33 13-0012	EA	Safety Chain Attachment	216.57	
05 51 33 13-0013		Welded Steel Ladder Cages (05 51 33 13) Note: For existing fixed ladders up to 20" wide. Excludes the ladder.		
05 51 33 13-0014		Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)		
05 51 33 13-0015	EA	7-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,028.23	175.37
05 51 33 13-0016	EA	8-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,200.91	181.21
05 51 33 13-0017	EA	9-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,338.58	187.06
05 51 33 13-0018	EA	10-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,485.59	192.91
05 51 33 13-0019	EA	11-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,571.95	198.75
05 51 33 13-0020	EA	12-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,711.96	204.59
05 51 33 13-0021	EA	13-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,835.64	210.44
05 51 33 13-0022	EA	14-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,996.65	216.28
05 51 33 13-0023	EA	15-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,152.99	222.13
05 51 33 13-0024	EA	16-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,281.33	227.98
05 51 33 13-0025	EA	17-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,437.69	233.82
05 51 33 13-0026	EA	18-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,589.36	239.67
05 51 33 13-0027	EA	19-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,738.70	245.52
05 51 33 13-0028	EA	20-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,009.37	251.36
05 51 33 13-0029	EA	21-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,091.05	257.21
05 51 33 13-0030	EA	22-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,231.06	263.05
05 51 33 13-0031	EA	23-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,359.41	268.89
05 51 33 13-0032	EA	24-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,478.42	274.74
05 51 33 13-0033	EA	25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,742.09	280.59
05 51 33 13-0034	EA	26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,884.43	286.43
05 51 33 13-0035	EA	27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,017.45	292.28
05 51 33 13-0036		Welded Stainless Steel Ladder Cages (05 51 33 13-0013)		
05 51 33 13-0037	EA	7-1/2' Length, Welded Stainless Steel Ladder Cage	4,998.27	175.37
05 51 33 13-0038	EA	8-1/2' Length, Welded Stainless Steel Ladder Cage	5,338.93	181.21
05 51 33 13-0039	EA	9-1/2' Length, Welded Stainless Steel Ladder Cage	5,905.89	187.06
05 51 33 13-0040	EA	10-1/2' Length, Welded Stainless Steel Ladder Cage	6,185.89	192.91
05 51 33 13-0041	EA	11-1/2' Length, Welded Stainless Steel Ladder Cage	6,421.56	198.75
05 51 33 13-0042	EA	12-1/2' Length, Welded Stainless Steel Ladder Cage	6,734.22	204.59
05 51 33 13-0043	EA	13-1/2' Length, Welded Stainless Steel Ladder Cage	7,296.53	210.44
05 51 33 13-0044	EA	14-1/2' Length, Welded Stainless Steel Ladder Cage	7,581.19	216.28
05 51 33 13-0045	EA	15-1/2' Length, Welded Stainless Steel Ladder Cage	7,875.18	222.13
05 51 33 13-0046	EA	16-1/2' Length, Welded Stainless Steel Ladder Cage	8,197.18	227.98
05 51 33 13-0047	EA	17-1/2' Length, Welded Stainless Steel Ladder Cage	8,771.15	233.82
05 51 33 13-0048	EA	18-1/2' Length, Welded Stainless Steel Ladder Cage	9,058.15	239.67
05 51 33 13-0049	EA	19-1/2' Length, Welded Stainless Steel Ladder Cage	9,331.14	245.52
05 51 33 13-0050	EA	20-1/2' Length, Welded Stainless Steel Ladder Cage	9,783.79	251.36



Metals			05	05
Metal Fabrications			05 50	
Metal Stairs			05 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 13-0051	EA		21-1/2' Length, Welded Stainless Steel Ladder Cage	10,292.43	257.21
05 51 33 13-0052	EA		22-1/2' Length, Welded Stainless Steel Ladder Cage	10,574.76	263.05
05 51 33 13-0053	EA		23-1/2' Length, Welded Stainless Steel Ladder Cage	10,864.09	268.89
05 51 33 13-0054	EA		24-1/2' Length, Welded Stainless Steel Ladder Cage	11,134.75	274.74
05 51 33 13-0055	EA		25-1/2' Length, Welded Stainless Steel Ladder Cage	11,830.04	280.59
05 51 33 13-0056	EA		26-1/2' Length, Welded Stainless Steel Ladder Cage	12,100.71	286.43
05 51 33 13-0057	EA		27-1/2' Length, Welded Stainless Steel Ladder Cage	12,378.38	292.28
05 51 33 13-0058 Vertical Ladder Fall Protection System (05 51 33 13)					
05 51 33 13-0059	EA		For 20' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30914-00)	1,233.08	78.74
05 51 33 13-0060	EA		For 40' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30915-00)	1,359.02	85.89
05 51 33 13-0061	EA		For 60' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30916-00)	1,542.27	93.04
05 51 33 13-0062	EA		For 80' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30917-00)	1,726.27	100.21
05 51 33 13-0063	EA		For 100' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30918-00)	1,966.86	107.36
05 51 33 13-0064	EA		For 120' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30919-00)	2,155.57	114.52
05 51 33 13-0065	EA		For 140' Ladders, Vertical Ladder Fall Protection System With 5'-6" Galvanized Extension Post (MSA Latchways® 30920-00)	2,360.89	121.68
05 51 33 13-0066	EA		For 20' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30924-00)	732.41	71.57
05 51 33 13-0067	EA		For 40' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30925-00)	862.22	78.74
05 51 33 13-0068	EA		For 60' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30906-00)	1,024.28	85.89
05 51 33 13-0069	EA		For 80' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30907-00)	1,275.05	93.04
05 51 33 13-0070	EA		For 100' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30908-00)	1,431.64	100.21
05 51 33 13-0071	EA		For 120' Ladders, Vertical Ladder Fall Protection System (MSA Latchways® 30909-00)	1,552.84	107.36
05 51 33 13-0072	EA		Ladder Latch Device For Vertical Ladder Fall Protection System (MSA Latchways® 3104L-00)	590.51	17.90
05 51 33 16 Inclined Metal Ladders (05 51 33)					
05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)					
Note: Includes factory prime.					
05 51 33 16-0002	RSR		3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side	372.18	58.46
			For Aluminum, Add	127.64	
05 51 33 23 Alternating Tread Ladders (05 51 33)					
05 51 33 23-0001 Vertical Ladders With Alternating Tread (05 51 33 23)					
05 51 33 23-0002	EA		4' Vertical Height Aluminum Alternating Tread Ladder	2,913.36	175.37
			For Stainless Steel, Add	279.46	
			For Primed Steel, Deduct	-232.88	
05 51 33 23-0003	EA		5' Vertical Height Aluminum Alternating Tread Ladder	3,347.63	185.89
			For Stainless Steel, Add	340.51	
			For Primed Steel, Deduct	-265.60	
05 51 33 23-0004	EA		6' Vertical Height Aluminum Alternating Tread Ladder	3,733.13	185.89
			For Stainless Steel, Add	404.25	
			For Primed Steel, Deduct	-295.41	
05 51 33 23-0005	EA		7' Vertical Height Aluminum Alternating Tread Ladder	4,245.56	233.59
			For Stainless Steel, Add	467.93	
			For Primed Steel, Deduct	-320.62	
05 51 33 23-0006	EA		8' Vertical Height Aluminum Alternating Tread Ladder	4,674.06	241.87
			For Stainless Steel, Add	541.49	
			For Primed Steel, Deduct	-348.10	
05 51 33 23-0007	EA		9' Vertical Height Aluminum Alternating Tread Ladder	5,014.69	241.87
			For Stainless Steel, Add	610.22	
			For Primed Steel, Deduct	-368.24	
05 51 33 23-0008	EA		10' Vertical Height Aluminum Alternating Tread Ladder	5,503.57	269.79
			For Stainless Steel, Add	690.64	
			For Primed Steel, Deduct	-391.36	
05 51 33 23-0009	EA		11' Vertical Height Aluminum Alternating Tread Ladder	5,885.21	269.79
			For Stainless Steel, Add	772.81	
			For Primed Steel, Deduct	-411.34	
05 51 33 23-0010	EA		12' Vertical Height Aluminum Alternating Tread Ladder	6,182.14	269.79
			For Stainless Steel, Add	845.25	
			For Primed Steel, Deduct	-422.63	
05 52 Metal Railings (05 50)					
05 52 13 Pipe and Tube Railings (05 52)					
Note: Includes embedded steel sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).					
05 52 13 00-0001			Welded Steel Pipe Railing (05 52 13)		
Note: Includes field welds and touch-up of welds.					
05 52 13 00-0002			One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
Note: Includes factory primed posts and one rail.					

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0003	LF		1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	40.04	11.69
			For Schedule 80 Handrail, Add	5.03	
			For 11 Gauge A513 Steel Tubing, Deduct	-3.66	
			For 12 Gauge A513 Steel Tubing, Deduct	-4.16	
			For 14 Gauge A513 Steel Tubing, Deduct	-5.49	
			For 16 Gauge A513 Steel Tubing, Deduct	-6.49	
			For ADA Handrail P-Loop End Return, Add Per Each	82.67	
			For Additional Off Set Handrail And Brackets, ADA Attachment, Add	14.67	
			For Aluminum, Satin Finish, Add	6.99	
			For Aluminum, Clear Anodized Finish, Add	10.82	
			For Aluminum, Dark Anodized Finish, Add	12.49	
			For Galvanizing, Add	6.66	
			For Wrought Iron, Add	4.00	
			For Solid Steel Rails, Add	8.01	
			For 304 Stainless Steel, Add	53.28	
			For 316 Stainless Steel, Add	59.94	
			For 2" Wheel Guard, Add	1.58	
			For 4" High Kick Plate, Add	2.08	
			For 6" High Kick Plate, Add	3.33	
			For Curved Rail, Add	17.01	
			For Mounting On Stairs, Add	12.01	
			For Mounting On Slopes, Add	4.00	
			For Post Base Flange With Screws, Add Per Post	19.84	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01	
			For Custom Design Or Shapes (Square Tops, etc.), Add	14.17	
			For Nylon Coating, Add	2.50	
05 52 13 00-0004	LF		1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	42.91	11.69
			For Schedule 80 Handrail, Add	7.86	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.29	
			For 12 Gauge A513 Steel Tubing, Deduct	-4.88	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.44	
			For 16 Gauge A513 Steel Tubing, Deduct	-7.61	
			For ADA Handrail P-Loop End Return, Add Per Each	98.32	
			For Additional Off Set Handrail And Brackets, ADA Attachment, Add	16.39	
			For Aluminum, Satin Finish, Add	8.20	
			For Aluminum, Clear Anodized Finish, Add	12.69	
			For Aluminum, Dark Anodized Finish, Add	14.64	
			For Galvanizing, Add	7.81	
			For Wrought Iron, Add	4.29	
			For Solid Steel Rails, Add	8.58	
			For 304 Stainless Steel, Add	62.46	
			For 316 Stainless Steel, Add	70.27	
			For 2" Wheel Guard, Add	1.85	
			For 4" High Kick Plate, Add	2.44	
			For 6" High Kick Plate, Add	3.90	
			For Curved Rail, Add	18.73	
			For Mounting On Stairs, Add	12.87	
			For Mounting On Slopes, Add	4.29	
			For Post Base Flange With Screws, Add Per Post	19.84	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01	
			For Custom Design Or Shapes (Square Tops, etc.), Add	15.61	
			For Nylon Coating, Add	2.93	
05 52 13 00-0005	LF		1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	45.77	11.69
			For Schedule 80 Handrail, Add	7.86	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.92	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.60	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.39	
			For 16 Gauge A513 Steel Tubing, Deduct	-8.73	
			For ADA Handrail P-Loop End Return, Add Per Each	110.79	
			For Additional Off Set Handrail And Brackets, ADA Attachment, Add	18.11	
			For Aluminum, Satin Finish, Add	9.40	
			For Aluminum, Clear Anodized Finish, Add	14.55	
			For Aluminum, Dark Anodized Finish, Add	16.79	
			For Galvanizing, Add	8.95	
			For Wrought Iron, Add	4.58	
			For Solid Steel Rails, Add	9.15	
			For 304 Stainless Steel, Add	71.62	
			For 316 Stainless Steel, Add	80.57	
			For 2" Wheel Guard, Add	2.13	
			For 4" High Kick Plate, Add	2.80	
			For 6" High Kick Plate, Add	4.48	
			For Curved Rail, Add	20.45	
			For Mounting On Stairs, Add	13.73	
			For Mounting On Slopes, Add	4.58	
			For Post Base Flange With Screws, Add Per Post	19.84	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01	
			For Custom Design Or Shapes (Square Tops, etc.), Add	17.04	
			For Nylon Coating, Add	3.36	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0006	LF		2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	50.75	11.69
			For Schedule 80 Handrail, Add	9.00	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.02	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.84	
			For 14 Gauge A513 Steel Tubing, Deduct	-9.03	
			For 16 Gauge A513 Steel Tubing, Deduct	-10.67	
			For ADA Handrail P-Loop End Return, Add Per Each	133.71	
			For Additional Off Set Handrail And Brackets, ADA Attachment, Add	21.10	
			For Aluminum, Satin Finish, Add	11.49	
			For Aluminum, Clear Anodized Finish, Add	17.78	
			For Aluminum, Dark Anodized Finish, Add	20.52	
			For Galvanizing, Add	10.94	
			For Wrought Iron, Add	5.08	
			For Solid Steel Rails, Add	10.15	
			For 304 Stainless Steel, Add	87.55	
			For 316 Stainless Steel, Add	98.50	
			For 2" Wheel Guard, Add	2.60	
			For 4" High Kick Plate, Add	3.42	
			For 6" High Kick Plate, Add	5.47	
			For Curved Rail, Add	23.43	
			For Mounting On Stairs, Add	15.23	
			For Mounting On Slopes, Add	5.08	
			For Post Base Flange With Screws, Add Per Post	19.84	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01	
			For Custom Design Or Shapes (Square Tops, etc.), Add	19.53	
			For Nylon Coating, Add	4.10	
05 52 13 00-0007	LF		2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	56.71	11.69
			For Schedule 80 Handrail, Add	10.16	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.33	
			For 12 Gauge A513 Steel Tubing, Deduct	-8.33	
			For 14 Gauge A513 Steel Tubing, Deduct	-11.00	
			For 16 Gauge A513 Steel Tubing, Deduct	-12.99	
			For ADA Handrail P-Loop End Return, Add Per Each	182.55	
			For Additional Off Set Handrail And Brackets, ADA Attachment, Add	24.67	
			For Aluminum, Satin Finish, Add	13.99	
			For Aluminum, Clear Anodized Finish, Add	21.66	
			For Aluminum, Dark Anodized Finish, Add	24.99	
			For Galvanizing, Add	13.33	
			For Wrought Iron, Add	5.67	
			For Solid Steel Rails, Add	11.34	
			For 304 Stainless Steel, Add	106.62	
			For 316 Stainless Steel, Add	119.95	
			For 2" Wheel Guard, Add	3.17	
			For 4" High Kick Plate, Add	4.17	
			For 6" High Kick Plate, Add	6.66	
			For Curved Rail, Add	27.01	
			For Mounting On Stairs, Add	17.01	
			For Mounting On Slopes, Add	5.67	
			For Post Base Flange With Screws, Add Per Post	19.84	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01	
			For Custom Design Or Shapes (Square Tops, etc.), Add	22.51	
			For Nylon Coating, Add	5.00	
05 52 13 00-0008			Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
			Note: Includes factory primed posts and two rails.		

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 52 13 00-0009	LF	1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	52.52	11.69
		For Schedule 80 Handrail, Add	5.03	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
		For 11 Gauge A513 Steel Tubing, Deduct	-6.41	
		For 12 Gauge A513 Steel Tubing, Deduct	-7.28	
		For 14 Gauge A513 Steel Tubing, Deduct	-9.61	
		For 16 Gauge A513 Steel Tubing, Deduct	-11.36	
		For ADA Handrail P-Loop End Return, Add Per Each	82.67	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	14.67	
		For Aluminum, Satin Finish, Add	12.23	
		For Aluminum, Clear Anodized Finish, Add	18.93	
		For Aluminum, Dark Anodized Finish, Add	21.85	
		For Galvanizing, Add	11.65	
		For Wrought Iron, Add	5.25	
		For Solid Steel Rails, Add	10.50	
		For 304 Stainless Steel, Add	93.22	
		For 316 Stainless Steel, Add	104.87	
		For 2" Wheel Guard, Add	2.77	
		For 4" High Kick Plate, Add	3.64	
		For 6" High Kick Plate, Add	5.83	
		For Curved Rail, Add	24.50	
		For Mounting On Stairs, Add	15.76	
		For Mounting On Slopes, Add	5.25	
		For Post Base Flange With Screws, Add Per Post	19.84	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01	
		For Custom Design Or Shapes (Square Tops, etc.), Add	20.41	
		For Nylon Coating, Add	4.37	
05 52 13 00-0010	LF	1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	57.54	11.69
		For Schedule 80 Handrail, Add	7.86	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21	
		For 11 Gauge A513 Steel Tubing, Deduct	-7.51	
		For 12 Gauge A513 Steel Tubing, Deduct	-8.54	
		For 14 Gauge A513 Steel Tubing, Deduct	-11.27	
		For 16 Gauge A513 Steel Tubing, Deduct	-13.32	
		For ADA Handrail P-Loop End Return, Add Per Each	98.32	
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	16.39	
		For Aluminum, Satin Finish, Add	14.34	
		For Aluminum, Clear Anodized Finish, Add	22.20	
		For Aluminum, Dark Anodized Finish, Add	25.61	
		For Galvanizing, Add	13.66	
		For Wrought Iron, Add	5.75	
		For Solid Steel Rails, Add	11.51	
		For 304 Stainless Steel, Add	109.28	
		For 316 Stainless Steel, Add	122.94	
		For 2" Wheel Guard, Add	3.24	
		For 4" High Kick Plate, Add	4.27	
		For 6" High Kick Plate, Add	6.83	
		For Curved Rail, Add	27.51	
		For Mounting On Stairs, Add	17.26	
		For Mounting On Slopes, Add	5.75	
		For Post Base Flange With Screws, Add Per Post	19.84	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01	
		For Custom Design Or Shapes (Square Tops, etc.), Add	22.92	
		For Nylon Coating, Add	5.12	



Metals		05	05
Metal Fabrications		05 50	
Metal Railings		05 52	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 52 13 00-0011	LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	62.56	11.69
	For Schedule 80 Handrail, Add	7.86	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	106.97	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	77.80	
	For 11 Gauge A513 Steel Tubing, Deduct	-8.62	
	For 12 Gauge A513 Steel Tubing, Deduct	-9.79	
	For 14 Gauge A513 Steel Tubing, Deduct	-12.93	
	For 16 Gauge A513 Steel Tubing, Deduct	-15.28	
	For ADA Handrail P-Loop End Return, Add Per Each	110.79	
	For Additional Off Set Handrail And Brackets, ADA Attachment, Add	18.11	
	For Aluminum, Satin Finish, Add	16.45	
	For Aluminum, Clear Anodized Finish, Add	25.46	
	For Aluminum, Dark Anodized Finish, Add	29.38	
	For Galvanizing, Add	15.67	
	For Wrought Iron, Add	6.26	
	For Solid Steel Rails, Add	12.51	
	For 304 Stainless Steel, Add	125.34	
	For 316 Stainless Steel, Add	141.01	
	For 2" Wheel Guard, Add	3.72	
	For 4" High Kick Plate, Add	4.90	
	For 6" High Kick Plate, Add	7.83	
	For Curved Rail, Add	30.52	
	For Mounting On Stairs, Add	18.77	
	For Mounting On Slopes, Add	6.26	
	For Post Base Flange With Screws, Add Per Post	19.84	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01	
	For Custom Design Or Shapes (Square Tops, etc.), Add	25.43	
	For Nylon Coating, Add	5.88	
05 52 13 00-0012	LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	71.26	11.69
	For Schedule 80 Handrail, Add	9.00	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	106.97	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	77.80	
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	134.97	
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	95.80	
	For 11 Gauge A513 Steel Tubing, Deduct	-10.53	
	For 12 Gauge A513 Steel Tubing, Deduct	-11.97	
	For 14 Gauge A513 Steel Tubing, Deduct	-15.80	
	For 16 Gauge A513 Steel Tubing, Deduct	-18.67	
	For ADA Handrail P-Loop End Return, Add Per Each	133.71	
	For Additional Off Set Handrail And Brackets, ADA Attachment, Add	21.10	
	For Aluminum, Satin Finish, Add	20.11	
	For Aluminum, Clear Anodized Finish, Add	31.12	
	For Aluminum, Dark Anodized Finish, Add	35.90	
	For Galvanizing, Add	19.15	
	For Wrought Iron, Add	7.13	
	For Solid Steel Rails, Add	14.25	
	For 304 Stainless Steel, Add	153.18	
	For 316 Stainless Steel, Add	172.33	
	For 2" Wheel Guard, Add	4.55	
	For 4" High Kick Plate, Add	5.98	
	For 6" High Kick Plate, Add	9.57	
	For Curved Rail, Add	35.74	
	For Mounting On Stairs, Add	21.38	
	For Mounting On Slopes, Add	7.13	
	For Post Base Flange With Screws, Add Per Post	19.84	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01	
	For Custom Design Or Shapes (Square Tops, etc.), Add	29.78	
	For Nylon Coating, Add	7.18	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0013	LF	2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	81.70	11.69	
		For Schedule 80 Handrail, Add	10.16		
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16		
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34		
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50		
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42		
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63		
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84		
		For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77		
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10		
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42		
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60		
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21		
		For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	106.97		
		For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	77.80		
		For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	134.97		
		For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	95.80		
		For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	137.14		
		For 11 Gauge A513 Steel Tubing, Deduct	-12.83		
		For 12 Gauge A513 Steel Tubing, Deduct	-14.58		
		For 14 Gauge A513 Steel Tubing, Deduct	-19.24		
		For 16 Gauge A513 Steel Tubing, Deduct	-22.74		
		For ADA Handrail P-Loop End Return, Add Per Each	182.55		
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	24.67		
		For Aluminum, Satin Finish, Add	24.49		
		For Aluminum, Clear Anodized Finish, Add	37.90		
		For Aluminum, Dark Anodized Finish, Add	43.73		
		For Galvanizing, Add	23.32		
		For Wrought Iron, Add	8.17		
		For Solid Steel Rails, Add	16.34		
		For 304 Stainless Steel, Add	186.59		
		For 316 Stainless Steel, Add	209.92		
		For 2" Wheel Guard, Add	5.54		
		For 4" High Kick Plate, Add	7.29		
		For 6" High Kick Plate, Add	11.66		
		For Curved Rail, Add	42.00		
		For Mounting On Stairs, Add	24.51		
		For Mounting On Slopes, Add	8.17		
		For Post Base Flange With Screws, Add Per Post	19.84		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.01		
		For Custom Design Or Shapes (Square Tops, etc.), Add	35.00		
		For Nylon Coating, Add	8.75		
05 52 13 00-0014		Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)			
		Note: Includes factory primed posts and three rails.			
05 52 13 00-0015	LF	1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	81.59	14.03	
		For Schedule 80 Handrail, Add	7.30		
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16		
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34		
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50		
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42		
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63		
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84		
		For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77		
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10		
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42		
		For 11 Gauge A513 Steel Tubing, Deduct	-11.78		
		For 12 Gauge A513 Steel Tubing, Deduct	-13.38		
		For 14 Gauge A513 Steel Tubing, Deduct	-17.66		
		For 16 Gauge A513 Steel Tubing, Deduct	-20.88		
		For ADA Handrail P-Loop End Return, Add Per Each	82.67		
		For Additional Off Set Handrail And Brackets, ADA Attachment, Add	15.60		
		For Aluminum, Satin Finish, Add	22.48		
		For Aluminum, Clear Anodized Finish, Add	34.79		
		For Aluminum, Dark Anodized Finish, Add	40.15		
		For Galvanizing, Add	21.41		
		For Wrought Iron, Add	8.16		
		For Solid Steel Rails, Add	16.32		
		For 304 Stainless Steel, Add	171.30		
		For 316 Stainless Steel, Add	192.71		
		For 2" Wheel Guard, Add	5.09		
		For 4" High Kick Plate, Add	6.69		
		For 6" High Kick Plate, Add	10.71		
		For Curved Rail, Add	40.54		
		For Mounting On Stairs, Add	24.48		
		For Mounting On Slopes, Add	8.16		
		For Post Base Flange With Screws, Add Per Post	20.31		
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.71		
		For Custom Design Or Shapes (Square Tops, etc.), Add	33.78		
		For Nylon Coating, Add	8.03		



Metals		05	05
Metal Fabrications		05 50	
Metal Railings		05 52	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 52 13 00-0016	LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	90.80	14.03
	For Schedule 80 Handrail, Add	11.07	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21	
	For 11 Gauge A513 Steel Tubing, Deduct	-13.80	
	For 12 Gauge A513 Steel Tubing, Deduct	-15.69	
	For 14 Gauge A513 Steel Tubing, Deduct	-20.70	
	For 16 Gauge A513 Steel Tubing, Deduct	-24.47	
	For ADA Handrail P-Loop End Return, Add Per Each	98.32	
	For Additional Off Set Handrail And Brackets, ADA Attachment, Add	17.32	
	For Aluminum, Satin Finish, Add	26.35	
	For Aluminum, Clear Anodized Finish, Add	40.78	
	For Aluminum, Dark Anodized Finish, Add	47.06	
	For Galvanizing, Add	25.10	
	For Wrought Iron, Add	9.08	
	For Solid Steel Rails, Add	18.16	
	For 304 Stainless Steel, Add	200.77	
	For 316 Stainless Steel, Add	225.86	
	For 2" Wheel Guard, Add	5.96	
	For 4" High Kick Plate, Add	7.84	
	For 6" High Kick Plate, Add	12.55	
	For Curved Rail, Add	46.06	
	For Mounting On Stairs, Add	27.24	
	For Mounting On Slopes, Add	9.08	
	For Post Base Flange With Screws, Add Per Post	20.31	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.71	
	For Custom Design Or Shapes (Square Tops, etc.), Add	38.39	
	For Nylon Coating, Add	9.41	
05 52 13 00-0017	LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	100.02	14.03
	For Schedule 80 Handrail, Add	11.07	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	106.97	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	77.80	
	For 11 Gauge A513 Steel Tubing, Deduct	-15.83	
	For 12 Gauge A513 Steel Tubing, Deduct	-17.99	
	For 14 Gauge A513 Steel Tubing, Deduct	-23.75	
	For 16 Gauge A513 Steel Tubing, Deduct	-28.06	
	For ADA Handrail P-Loop End Return, Add Per Each	110.79	
	For Additional Off Set Handrail And Brackets, ADA Attachment, Add	19.04	
	For Aluminum, Satin Finish, Add	30.22	
	For Aluminum, Clear Anodized Finish, Add	46.77	
	For Aluminum, Dark Anodized Finish, Add	53.97	
	For Galvanizing, Add	28.78	
	For Wrought Iron, Add	10.00	
	For Solid Steel Rails, Add	20.00	
	For 304 Stainless Steel, Add	230.27	
	For 316 Stainless Steel, Add	259.06	
	For 2" Wheel Guard, Add	6.84	
	For 4" High Kick Plate, Add	9.00	
	For 6" High Kick Plate, Add	14.39	
	For Curved Rail, Add	51.59	
	For Mounting On Stairs, Add	30.01	
	For Mounting On Slopes, Add	10.00	
	For Post Base Flange With Screws, Add Per Post	20.31	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.71	
	For Custom Design Or Shapes (Square Tops, etc.), Add	43.00	
	For Nylon Coating, Add	10.79	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0018 LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	116.04	14.03
For Schedule 80 Handrail, Add	12.60	
For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60	
For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21	
For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	106.97	
For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	77.80	
For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	134.97	
For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	95.80	
For 11 Gauge A513 Steel Tubing, Deduct	-19.36	
For 12 Gauge A513 Steel Tubing, Deduct	-22.00	
For 14 Gauge A513 Steel Tubing, Deduct	-29.03	
For 16 Gauge A513 Steel Tubing, Deduct	-34.31	
For ADA Handrail P-Loop End Return, Add Per Each	133.71	
For Additional Off Set Handrail And Brackets, ADA Attachment, Add	22.03	
For Aluminum, Satin Finish, Add	36.95	
For Aluminum, Clear Anodized Finish, Add	57.19	
For Aluminum, Dark Anodized Finish, Add	65.99	
For Galvanizing, Add	35.19	
For Wrought Iron, Add	11.60	
For Solid Steel Rails, Add	23.21	
For 304 Stainless Steel, Add	281.54	
For 316 Stainless Steel, Add	316.73	
For 2" Wheel Guard, Add	8.36	
For 4" High Kick Plate, Add	11.00	
For 6" High Kick Plate, Add	17.60	
For Curved Rail, Add	61.21	
For Mounting On Stairs, Add	34.81	
For Mounting On Slopes, Add	11.60	
For Post Base Flange With Screws, Add Per Post	20.31	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.71	
For Custom Design Or Shapes (Square Tops, etc.), Add	51.01	
For Nylon Coating, Add	13.20	
05 52 13 00-0019 LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	135.11	14.03
For Schedule 80 Handrail, Add	14.14	
For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60	
For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21	
For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	106.97	
For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	77.80	
For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	134.97	
For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	95.80	
For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	137.14	
For 11 Gauge A513 Steel Tubing, Deduct	-23.55	
For 12 Gauge A513 Steel Tubing, Deduct	-26.76	
For 14 Gauge A513 Steel Tubing, Deduct	-35.33	
For 16 Gauge A513 Steel Tubing, Deduct	-41.75	
For ADA Handrail P-Loop End Return, Add Per Each	182.55	
For Additional Off Set Handrail And Brackets, ADA Attachment, Add	25.60	
For Aluminum, Satin Finish, Add	44.96	
For Aluminum, Clear Anodized Finish, Add	69.58	
For Aluminum, Dark Anodized Finish, Add	80.29	
For Galvanizing, Add	42.82	
For Wrought Iron, Add	13.51	
For Solid Steel Rails, Add	27.02	
For 304 Stainless Steel, Add	342.56	
For 316 Stainless Steel, Add	385.38	
For 2" Wheel Guard, Add	10.17	
For 4" High Kick Plate, Add	13.38	
For 6" High Kick Plate, Add	21.41	
For Curved Rail, Add	72.65	
For Mounting On Stairs, Add	40.53	
For Mounting On Slopes, Add	13.51	
For Post Base Flange With Screws, Add Per Post	20.31	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.71	
For Custom Design Or Shapes (Square Tops, etc.), Add	60.54	
For Nylon Coating, Add	16.06	

05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and four rails.



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 52 13 00-0021	LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	98.43		16.37
	For Schedule 80 Handrail, Add	9.88		
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16		
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34		
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50		
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42		
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63		
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84		
	For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77		
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10		
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42		
	For 11 Gauge A513 Steel Tubing, Deduct	-14.45		
	For 12 Gauge A513 Steel Tubing, Deduct	-16.42		
	For 14 Gauge A513 Steel Tubing, Deduct	-21.68		
	For 16 Gauge A513 Steel Tubing, Deduct	-25.62		
	For ADA Handrail P-Loop End Return, Add Per Each	82.67		
	For Additional Off Set Handrail And Brackets, ADA Attachment, Add	16.54		
	For Aluminum, Satin Finish, Add	27.59		
	For Aluminum, Clear Anodized Finish, Add	42.70		
	For Aluminum, Dark Anodized Finish, Add	49.27		
	For Galvanizing, Add	26.28		
	For Wrought Iron, Add	9.64		
	For Solid Steel Rails, Add	19.69		
	For 304 Stainless Steel, Add	210.21		
	For 316 Stainless Steel, Add	236.48		
	For 2" Wheel Guard, Add	6.24		
	For 4" High Kick Plate, Add	8.21		
	For 6" High Kick Plate, Add	13.14		
	For Curved Rail, Add	49.24		
	For Mounting On Stairs, Add	29.53		
	For Mounting On Slopes, Add	9.84		
	For Post Base Flange With Screws, Add Per Post	20.77		
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.41		
	For Custom Design Or Shapes (Square Tops, etc.), Add	41.03		
	For Nylon Coating, Add	9.85		
05 52 13 00-0022	LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	106.62		16.37
	For Schedule 80 Handrail, Add	14.59		
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16		
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34		
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50		
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42		
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63		
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84		
	For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77		
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10		
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42		
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60		
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21		
	For 11 Gauge A513 Steel Tubing, Deduct	-16.25		
	For 12 Gauge A513 Steel Tubing, Deduct	-18.47		
	For 14 Gauge A513 Steel Tubing, Deduct	-24.38		
	For 16 Gauge A513 Steel Tubing, Deduct	-28.81		
	For ADA Handrail P-Loop End Return, Add Per Each	98.32		
	For Additional Off Set Handrail And Brackets, ADA Attachment, Add	18.26		
	For Aluminum, Satin Finish, Add	31.03		
	For Aluminum, Clear Anodized Finish, Add	48.02		
	For Aluminum, Dark Anodized Finish, Add	55.41		
	For Galvanizing, Add	29.55		
	For Wrought Iron, Add	10.66		
	For Solid Steel Rails, Add	21.32		
	For 304 Stainless Steel, Add	236.42		
	For 316 Stainless Steel, Add	265.97		
	For 2" Wheel Guard, Add	7.02		
	For 4" High Kick Plate, Add	9.24		
	For 6" High Kick Plate, Add	14.78		
	For Curved Rail, Add	54.15		
	For Mounting On Stairs, Add	31.99		
	For Mounting On Slopes, Add	10.66		
	For Post Base Flange With Screws, Add Per Post	20.77		
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.41		
	For Custom Design Or Shapes (Square Tops, etc.), Add	45.13		
	For Nylon Coating, Add	11.08		

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0023 LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	114.80	16.37
For Schedule 80 Handrail, Add	14.59	
For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60	
For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21	
For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	106.97	
For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	77.80	
For 11 Gauge A513 Steel Tubing, Deduct	-18.05	
For 12 Gauge A513 Steel Tubing, Deduct	-20.52	
For 14 Gauge A513 Steel Tubing, Deduct	-27.08	
For 16 Gauge A513 Steel Tubing, Deduct	-32.00	
For ADA Handrail P-Loop End Return, Add Per Each	110.79	
For Additional Off Set Handrail And Brackets, ADA Attachment, Add	19.98	
For Aluminum, Satin Finish, Add	34.47	
For Aluminum, Clear Anodized Finish, Add	53.34	
For Aluminum, Dark Anodized Finish, Add	61.55	
For Galvanizing, Add	32.82	
For Wrought Iron, Add	11.48	
For Solid Steel Rails, Add	22.96	
For 304 Stainless Steel, Add	262.59	
For 316 Stainless Steel, Add	295.42	
For 2" Wheel Guard, Add	7.80	
For 4" High Kick Plate, Add	10.26	
For 6" High Kick Plate, Add	16.41	
For Curved Rail, Add	59.06	
For Mounting On Stairs, Add	34.44	
For Mounting On Slopes, Add	11.48	
For Post Base Flange With Screws, Add Per Post	20.77	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.41	
For Custom Design Or Shapes (Square Tops, etc.), Add	49.22	
For Nylon Coating, Add	12.31	
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	133.03	16.37
For Schedule 80 Handrail, Add	16.49	
For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16	
For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34	
For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50	
For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42	
For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63	
For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84	
For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77	
For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10	
For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42	
For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60	
For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21	
For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	106.97	
For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	77.80	
For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	134.97	
For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	95.80	
For 11 Gauge A513 Steel Tubing, Deduct	-22.06	
For 12 Gauge A513 Steel Tubing, Deduct	-25.07	
For 14 Gauge A513 Steel Tubing, Deduct	-33.10	
For 16 Gauge A513 Steel Tubing, Deduct	-39.11	
For ADA Handrail P-Loop End Return, Add Per Each	133.71	
For Additional Off Set Handrail And Brackets, ADA Attachment, Add	22.97	
For Aluminum, Satin Finish, Add	42.12	
For Aluminum, Clear Anodized Finish, Add	65.19	
For Aluminum, Dark Anodized Finish, Add	75.22	
For Galvanizing, Add	40.12	
For Wrought Iron, Add	13.30	
For Solid Steel Rails, Add	26.61	
For 304 Stainless Steel, Add	320.93	
For 316 Stainless Steel, Add	361.04	
For 2" Wheel Guard, Add	9.53	
For 4" High Kick Plate, Add	12.54	
For 6" High Kick Plate, Add	20.06	
For Curved Rail, Add	70.00	
For Mounting On Stairs, Add	39.91	
For Mounting On Slopes, Add	13.30	
For Post Base Flange With Screws, Add Per Post	20.77	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.41	
For Custom Design Or Shapes (Square Tops, etc.), Add	58.33	
For Nylon Coating, Add	15.04	



Metals			05
Metal Fabrications			05 50
Metal Railings			05 52

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 52 13 00-0025	LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	154.39		16.37
	For Schedule 80 Handrail, Add	18.42		
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	60.16		
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	44.34		
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	28.50		
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	71.42		
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	52.63		
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.84		
	For 1" Diameter Pickets, >2" To 3" On Center, Add	93.77		
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	69.10		
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	44.42		
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	93.60		
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	69.21		
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	106.97		
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	77.80		
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	134.97		
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	95.80		
	For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	137.14		
	For 11 Gauge A513 Steel Tubing, Deduct	-26.76		
	For 12 Gauge A513 Steel Tubing, Deduct	-30.41		
	For 14 Gauge A513 Steel Tubing, Deduct	-40.14		
	For 16 Gauge A513 Steel Tubing, Deduct	-47.44		
	For ADA Handrail P-Loop End Return, Add Per Each	182.55		
	For Additional Off Set Handrail And Brackets, ADA Attachment, Add	26.54		
	For Aluminum, Satin Finish, Add	51.09		
	For Aluminum, Clear Anodized Finish, Add	79.07		
	For Aluminum, Dark Anodized Finish, Add	91.24		
	For Galvanizing, Add	48.66		
	For Wrought Iron, Add	15.44		
	For Solid Steel Rails, Add	30.88		
	For 304 Stainless Steel, Add	389.28		
	For 316 Stainless Steel, Add	437.94		
	For 2" Wheel Guard, Add	11.56		
	For 4" High Kick Plate, Add	15.21		
	For 6" High Kick Plate, Add	24.33		
	For Curved Rail, Add	82.81		
	For Mounting On Stairs, Add	46.32		
	For Mounting On Slopes, Add	15.44		
	For Post Base Flange With Screws, Add Per Post	20.77		
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.41		
	For Custom Design Or Shapes (Square Tops, etc.), Add	69.01		
	For Nylon Coating, Add	18.25		
05 52 13 00-0026	Railing Infill Panels (05 52 13)			
	Note: Includes field welds and touch-up of welds.			
05 52 13 00-0027	Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)			
	Note: Square weave or square welded wire mesh.			
05 52 13 00-0028	SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	15.81		
05 52 13 00-0029	SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	16.79		
05 52 13 00-0030	SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	17.65		
05 52 13 00-0031	SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	29.85		
05 52 13 00-0032	Perforated Metal, Railing Infill Panels (05 52 13 00-0026)			
05 52 13 00-0033	SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	15.51		
05 52 13 00-0034	SF Galvanized Steel, Perforated Metal, Railing Infill Panel	16.03		
05 52 13 00-0035	SF Aluminum, Perforated Metal, Railing Infill Panel	17.16		
05 52 13 00-0036	SF Stainless Steel, Perforated Metal, Railing Infill Panel	34.45		
05 52 13 00-0037	Expanded Metal, Railing Infill Panels (05 52 13 00-0026)			
05 52 13 00-0038	SF Powder Coated Steel, Expanded Metal, Railing Infill Panel	7.00		
05 52 13 00-0039	SF Galvanized Steel, Expanded Metal, Railing Infill Panel	14.30		
05 52 13 00-0040	SF Aluminum, Expanded Metal, Railing Infill Panel	18.77		
05 52 13 00-0041	SF Stainless Steel, Expanded Metal, Railing Infill Panel	27.99		
05 52 13 00-0042	Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)			
	Note: Includes factory primed, fasteners and field touch-up of welds.			
05 52 13 00-0043	LF 1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	39.84		7.02
	For Schedule 80 Handrail, Add	2.74		
	For 11 Gauge A513 Steel Tubing, Deduct	-4.91		
	For 12 Gauge A513 Steel Tubing, Deduct	-5.58		
	For 14 Gauge A513 Steel Tubing, Deduct	-7.36		
	For 16 Gauge A513 Steel Tubing, Deduct	-8.70		
	For Stainless Steel, Add	44.60		
	For Aluminum, Satin Finish, Add	9.37		
	For Curved Rail, Add	11.95		
	For Aluminum, Clear Anodized Finish, Add	14.50		
	For Aluminum, Dark Anodized Finish, Add	16.73		
	For Galvanized Finish, Add	6.69		

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0044 LF 1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing 40.56		7.02
For Schedule 80 Handrail, Add	3.21	
For 11 Gauge A513 Steel Tubing, Deduct	-5.06	
For 12 Gauge A513 Steel Tubing, Deduct	-5.76	
For 14 Gauge A513 Steel Tubing, Deduct	-7.60	
For 16 Gauge A513 Steel Tubing, Deduct	-8.98	
For Stainless Steel, Add	46.04	
For Aluminum, Satin Finish, Add	9.67	
For Curved Rail, Add	12.17	
For Aluminum, Clear Anodized Finish, Add	14.96	
For Aluminum, Dark Anodized Finish, Add	17.27	
For Galvanized Finish, Add	6.91	
05 52 13 00-0045 LF 1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing 41.28		7.02
For Schedule 80 Handrail, Add	9.49	
For 11 Gauge A513 Steel Tubing, Deduct	-5.22	
For 12 Gauge A513 Steel Tubing, Deduct	-5.94	
For 14 Gauge A513 Steel Tubing, Deduct	-7.83	
For 16 Gauge A513 Steel Tubing, Deduct	-9.26	
For Stainless Steel, Add	47.48	
For Aluminum, Satin Finish, Add	9.97	
For Curved Rail, Add	12.38	
For Aluminum, Clear Anodized Finish, Add	15.43	
For Aluminum, Dark Anodized Finish, Add	17.81	
For Galvanized Finish, Add	7.12	
05 52 13 00-0046 LF 2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....49.55		7.02
For Schedule 80 Handrail, Add	4.07	
For 11 Gauge A513 Steel Tubing, Deduct	-7.04	
For 12 Gauge A513 Steel Tubing, Deduct	-8.00	
For 14 Gauge A513 Steel Tubing, Deduct	-10.56	
For 16 Gauge A513 Steel Tubing, Deduct	-12.48	
For Stainless Steel, Add	64.02	
For Aluminum, Satin Finish, Add	13.44	
For Curved Rail, Add	14.87	
For Aluminum, Clear Anodized Finish, Add	20.81	
For Aluminum, Dark Anodized Finish, Add	24.01	
For Galvanized Finish, Add	9.60	
05 52 13 00-0047 LF 2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing 56.39		7.02
For Schedule 80 Handrail, Add	4.45	
For 11 Gauge A513 Steel Tubing, Deduct	-8.55	
For 12 Gauge A513 Steel Tubing, Deduct	-9.71	
For 14 Gauge A513 Steel Tubing, Deduct	-12.82	
For 16 Gauge A513 Steel Tubing, Deduct	-15.15	
For Stainless Steel, Add	77.70	
For Aluminum, Satin Finish, Add	16.32	
For Curved Rail, Add	16.92	
For Aluminum, Clear Anodized Finish, Add	25.25	
For Aluminum, Dark Anodized Finish, Add	29.14	
For Galvanized Finish, Add	11.66	
05 52 13 00-0048 Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel		
Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049 LF 1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing 48.29		7.37
For Schedule 80 Handrail, Add	2.74	
For 11 Gauge A513 Steel Tubing, Deduct	-6.77	
For 12 Gauge A513 Steel Tubing, Deduct	-7.69	
For 14 Gauge A513 Steel Tubing, Deduct	-10.15	
For 16 Gauge A513 Steel Tubing, Deduct	-11.99	
For Stainless Steel, Add	61.50	
For Aluminum, Satin Finish, Add	12.92	
For Curved Rail, Add	14.49	
For Aluminum, Clear Anodized Finish, Add	19.99	
For Aluminum, Dark Anodized Finish, Add	23.06	
For Galvanized Finish, Add	9.23	
05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing 49.30		7.37
For Schedule 80 Handrail, Add	3.21	
For 11 Gauge A513 Steel Tubing, Deduct	-6.99	
For 12 Gauge A513 Steel Tubing, Deduct	-7.94	
For 14 Gauge A513 Steel Tubing, Deduct	-10.48	
For 16 Gauge A513 Steel Tubing, Deduct	-12.39	
For Stainless Steel, Add	63.52	
For Aluminum, Satin Finish, Add	13.34	
For Curved Rail, Add	14.79	
For Aluminum, Clear Anodized Finish, Add	20.64	
For Aluminum, Dark Anodized Finish, Add	23.82	
For Galvanized Finish, Add	9.53	



Metals			05
Metal Fabrications			05 50
Metal Railings			05 52

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0051	LF	1-1/2"	Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	50.06	7.37
			For Schedule 80 Handrail, Add	9.49	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.15	
			For 12 Gauge A513 Steel Tubing, Deduct	-8.13	
			For 14 Gauge A513 Steel Tubing, Deduct	-10.73	
			For 16 Gauge A513 Steel Tubing, Deduct	-12.68	
			For Stainless Steel, Add	65.04	
			For Aluminum, Satin Finish, Add	13.66	
			For Curved Rail, Add	15.02	
			For Aluminum, Clear Anodized Finish, Add	21.14	
			For Aluminum, Dark Anodized Finish, Add	24.39	
			For Galvanized Finish, Add	9.76	
05 52 13 00-0052	LF	2"	Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	61.60	7.37
			For Schedule 80 Handrail, Add	4.07	
			For 11 Gauge A513 Steel Tubing, Deduct	-9.69	
			For 12 Gauge A513 Steel Tubing, Deduct	-11.02	
			For 14 Gauge A513 Steel Tubing, Deduct	-14.54	
			For 16 Gauge A513 Steel Tubing, Deduct	-17.18	
			For Stainless Steel, Add	88.12	
			For Aluminum, Satin Finish, Add	18.51	
			For Curved Rail, Add	18.48	
			For Aluminum, Clear Anodized Finish, Add	28.64	
			For Aluminum, Dark Anodized Finish, Add	33.05	
			For Galvanized Finish, Add	13.22	
05 52 13 00-0053	LF	2-1/2"	Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	69.16	7.37
			For Schedule 80 Handrail, Add	4.45	
			For 11 Gauge A513 Steel Tubing, Deduct	-11.36	
			For 12 Gauge A513 Steel Tubing, Deduct	-12.91	
			For 14 Gauge A513 Steel Tubing, Deduct	-17.03	
			For 16 Gauge A513 Steel Tubing, Deduct	-20.13	
			For Stainless Steel, Add	103.24	
			For Aluminum, Satin Finish, Add	21.68	
			For Curved Rail, Add	20.75	
			For Aluminum, Clear Anodized Finish, Add	33.55	
			For Aluminum, Dark Anodized Finish, Add	38.72	
			For Galvanized Finish, Add	15.49	
05 52 13 00-0054			Remove/Reinstall Pipe Railing (05 52 13)		
05 52 13 00-0055	LF		Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing.....	26.30	
05 52 13 00-0056	LF		Removal And Reinstallation Of Floor Mounted Pipe Railing.....	35.05	
05 52 13 00-0057	EA		Install New Galvanized Steel Pipe Railing Bracket.....	69.83	
			For Stainless Steel, Add	69.52	
05 53 Metal Gratings (05 50)					
05 53 13 Bar Gratings (05 53)					
05 53 13 00-0001			Welded Grating (05 53 13)		
			Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002			Steel, Welded Grating (05 53 13 00-0001)		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003	SF	3/4" x 1/8"	Steel, Welded Grating	14.40	1.28
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.01	
			For 304 Stainless Steel, Add	37.97	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.45	
			For Crossbars At 2" On-Center, Add	1.28	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.02	
05 53 13 00-0004	SF	3/4" x 3/16"	Steel, Welded Grating	19.30	1.28
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.84	
			For 304 Stainless Steel, Add	53.70	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.89	
			For Crossbars At 2" On-Center, Add	1.81	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.14	
05 53 13 00-0005	SF	1" x 1/8"	Steel, Welded Grating	17.55	1.28
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.55	
			For 304 Stainless Steel, Add	48.09	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.37	
			For Crossbars At 2" On-Center, Add	1.62	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.10	

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0006	SF	1" x 3/16" Steel, Welded Grating.....	24.20	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	3.68	
		For 304 Stainless Steel, Add	69.43	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	6.32	
		For Crossbars At 2" On-Center, Add	2.34	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.26	
05 53 13 00-0007	SF	1" x 1/4" Steel, Welded Grating	30.84	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	4.81	
		For 304 Stainless Steel, Add	90.75	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	8.25	
		For Crossbars At 2" On-Center, Add	3.05	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.43	
05 53 13 00-0008	SF	1-1/4" x 1/8" Steel, Welded Grating	20.73	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	3.09	
		For 304 Stainless Steel, Add	58.29	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	5.30	
		For Crossbars At 2" On-Center, Add	1.96	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.18	
05 53 13 00-0009	SF	1-1/4" x 3/16" Steel, Welded Grating	28.81	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	4.46	
		For 304 Stainless Steel, Add	84.23	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	7.66	
		For Crossbars At 2" On-Center, Add	2.83	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.38	
05 53 13 00-0010	SF	1-1/2" x 1/8" Steel, Welded Grating	23.92	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	3.63	
		For 304 Stainless Steel, Add	68.53	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	6.23	
		For Crossbars At 2" On-Center, Add	2.31	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.26	
05 53 13 00-0011	SF	1-1/2" x 3/16" Steel, Welded Grating	34.26	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	5.29	
		For 304 Stainless Steel, Add	99.86	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	9.08	
		For Crossbars At 2" On-Center, Add	3.36	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.89	
05 53 13 00-0012	SF	1-1/2" x 1/4" Steel, Welded Grating	44.37	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	7.01	
		For 304 Stainless Steel, Add	132.32	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	12.04	
		For Crossbars At 2" On-Center, Add	4.45	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.14	
05 53 13 00-0013	SF	1-3/4" x 3/16" Steel, Welded Grating	39.19	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	6.13	
		For 304 Stainless Steel, Add	115.69	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	10.52	
		For Crossbars At 2" On-Center, Add	3.89	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.01	
05 53 13 00-0014	SF	2" x 3/16" Steel, Welded Grating.....	43.81	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	6.91	
		For 304 Stainless Steel, Add	130.52	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	11.87	
		For Crossbars At 2" On-Center, Add	4.39	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.13	



Metals			05
Metal Fabrications			05 50
Metal Gratings			05 53

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0015	SF		2-1/4" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	48.71 0.22 7.75 146.25 13.30 4.92 0.16 -3.25	1.58
05 53 13 00-0016	SF		2-1/2" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	53.33 0.22 8.53 161.08 14.65 5.42 0.16 -3.37	1.58
05 53 13 00-0017			Pressure Locked Grating (05 53 13) Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018			Steel, Pressure Locked Grating (05 53 13 00-0017) Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019	SF		3/4" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	27.24 0.22 4.05 46.16 7.20 2.66 -2.34	1.28
05 53 13 00-0020	SF		3/4" x 3/16" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	33.54 0.22 5.08 57.94 9.04 3.34 -2.50	1.28
05 53 13 00-0021	SF		1" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	29.93 0.22 4.49 51.19 7.99 2.95 0.16 -2.41	1.28
05 53 13 00-0022	SF		1" x 3/16" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 7/16" On-Center, Add For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	40.75 0.22 6.26 71.43 55.36 11.15 4.12 0.16 -2.68	1.28
05 53 13 00-0023	SF		1-1/4" x 1/8" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	33.54 0.22 5.08 57.94 9.04 3.34 0.16 -2.50	1.28
05 53 13 00-0024	SF		1-1/4" x 3/16" Steel, Pressure Locked Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	45.75 0.22 7.08 80.79 12.61 4.66 0.16 -2.80	1.28

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0025	SF	1-1/2" x 1/8" Steel, Pressure Locked Grating.....	37.32	1.28
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	5.70	
		For 304 Stainless Steel, Add	65.02	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	10.15	
		For Crossbars At 2" On-Center, Add	3.75	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.59	
05 53 13 00-0026	SF	1-1/2" x 3/16" Steel, Pressure Locked Grating.....	51.58	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	7.94	
		For 304 Stainless Steel, Add	90.61	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 7/16" On-Center, Add	70.22	
		For Bearing Bars At 15/16" On-Center, Add	14.14	
		For Crossbars At 2" On-Center, Add	5.23	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.32	
05 53 13 00-0027	SF	1-3/4" x 3/16" Steel, Pressure Locked Grating.....	56.86	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	8.81	
		For 304 Stainless Steel, Add	100.49	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	15.68	
		For Crossbars At 2" On-Center, Add	5.80	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.45	
05 53 13 00-0028	SF	2" x 3/16" Steel, Pressure Locked Grating.....	61.17	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	9.52	
		For 304 Stainless Steel, Add	108.56	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	16.94	
		For Crossbars At 2" On-Center, Add	6.27	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.56	
05 53 13 00-0029	SF	2-1/4" x 3/16" Steel, Pressure Locked Grating.....	65.30	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	10.19	
		For 304 Stainless Steel, Add	116.28	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	18.15	
		For Crossbars At 2" On-Center, Add	6.71	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.66	
05 53 13 00-0030	SF	2-1/2" x 3/16" Steel, Pressure Locked Grating.....	68.87	1.58
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	10.78	
		For 304 Stainless Steel, Add	122.96	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	19.19	
		For Crossbars At 2" On-Center, Add	7.10	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.75	
05 53 13 00-0031		Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)		
		Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0032	SF	3/4" x 1/8" Aluminum, Pressure Locked Grating.....	17.20	1.28
		For Bearing Bars At 15/16" On-Center, Add	4.27	
		For Crossbars At 2" On-Center, Add	1.58	
		For Set In Place Without Bolting, Deduct	-2.09	
		For Powder Coating, Add	2.19	
05 53 13 00-0033	SF	3/4" x 3/16" Aluminum, Pressure Locked Grating.....	23.19	1.28
		For Bearing Bars At 15/16" On-Center, Add	6.02	
		For Crossbars At 2" On-Center, Add	2.23	
		For Set In Place Without Bolting, Deduct	-2.24	
		For Powder Coating, Add	3.09	
05 53 13 00-0034	SF	1" x 1/8" Aluminum, Pressure Locked Grating.....	21.90	1.28
		For Bearing Bars At 15/16" On-Center, Add	5.64	
		For Crossbars At 2" On-Center, Add	2.09	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.21	
		For Powder Coating, Add	2.90	
05 53 13 00-0035	SF	1" x 3/16" Aluminum, Pressure Locked Grating.....	29.65	1.28
		For Bearing Bars At 7/16" On-Center, Add	39.27	
		For Bearing Bars At 15/16" On-Center, Add	7.91	
		For Crossbars At 2" On-Center, Add	2.92	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.40	
		For Powder Coating, Add	4.06	



Metals			05	05
Metal Fabrications			05 50	
Metal Gratings			05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0036	SF	1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	25.31	1.28	
		For Bearing Bars At 15/16" On-Center, Add	6.64		
		For Crossbars At 2" On-Center, Add	2.46		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.29		
		For Powder Coating, Add	3.41		
05 53 13 00-0037	SF	1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	33.76	1.28	
		For Bearing Bars At 15/16" On-Center, Add	9.11		
		For Crossbars At 2" On-Center, Add	3.37		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.50		
		For Powder Coating, Add	4.68		
05 53 13 00-0038	SF	1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....	28.52	1.28	
		For Bearing Bars At 15/16" On-Center, Add	7.58		
		For Crossbars At 2" On-Center, Add	2.80		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.37		
		For Powder Coating, Add	3.89		
05 53 13 00-0039	SF	1-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	38.00	1.28	
		For Bearing Bars At 7/16" On-Center, Add	51.37		
		For Bearing Bars At 15/16" On-Center, Add	10.35		
		For Crossbars At 2" On-Center, Add	3.83		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.61		
		For Powder Coating, Add	5.31		
05 53 13 00-0040	SF	1-3/4" x 3/16" Aluminum, Pressure Locked Grating.....	42.06	1.28	
		For Bearing Bars At 15/16" On-Center, Add	11.53		
		For Crossbars At 2" On-Center, Add	4.26		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.71		
		For Powder Coating, Add	5.92		
05 53 13 00-0041	SF	2" x 3/16" Aluminum, Pressure Locked Grating.....	46.86	1.28	
		For Bearing Bars At 15/16" On-Center, Add	12.93		
		For Crossbars At 2" On-Center, Add	4.78		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.83		
		For Powder Coating, Add	6.64		
05 53 13 00-0042	SF	2-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	50.64	1.28	
		For Bearing Bars At 15/16" On-Center, Add	14.04		
		For Crossbars At 2" On-Center, Add	5.19		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.92		
		For Powder Coating, Add	7.21		
05 53 13 00-0043	SF	2-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	55.13	1.28	
		For Bearing Bars At 15/16" On-Center, Add	15.35		
		For Crossbars At 2" On-Center, Add	5.68		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-3.04		
		For Powder Coating, Add	7.88		
05 53 13 00-0044		Swage Locked Grating (05 53 13)			
		Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.			
05 53 13 00-0045		Steel, Swage Locked Grating (05 53 13 00-0044)			
		Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.			
05 53 13 00-0046	SF	1" x 3/16" Steel, Swaged Grating.....	44.60	1.28	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.87		
		For 304 Stainless Steel, Add	69.69		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	26.90		
		For Crossbars At 2" On-Center, Add	3.36		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.77		
05 53 13 00-0047	SF	1-1/4" x 3/16" Steel, Swaged Grating.....	49.78	1.28	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.34		
		For 304 Stainless Steel, Add	78.27		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	30.21		
		For Crossbars At 2" On-Center, Add	3.78		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.90		
05 53 13 00-0048	SF	1-1/2" x 3/16" Steel, Swaged Grating.....	54.41	1.58	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.72		
		For 304 Stainless Steel, Add	84.99		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	32.81		
		For Crossbars At 2" On-Center, Add	4.10		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.39		

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0049 SF 1-3/4" x 3/16" Steel, Swaged Grating.....	62.36	1.58
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.45	
For 304 Stainless Steel, Add	98.17	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	37.89	
For Crossbars At 2" On-Center, Add	4.74	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.59	
05 53 13 00-0050 SF 2" x 3/16" Steel, Swaged Grating.....	70.34	1.58
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.18	
For 304 Stainless Steel, Add	111.40	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	43.00	
For Crossbars At 2" On-Center, Add	5.38	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.79	
05 53 13 00-0051 SF 2-1/4" x 3/16" Steel, Swaged Grating.....	78.28	1.58
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.91	
For 304 Stainless Steel, Add	124.57	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	48.08	
For Crossbars At 2" On-Center, Add	6.01	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.99	
05 53 13 00-0052 SF 2-1/2" x 3/16" Steel, Swaged Grating.....	86.26	1.58
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.65	
For 304 Stainless Steel, Add	137.80	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	53.19	
For Crossbars At 2" On-Center, Add	6.65	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.19	
05 53 13 00-0053 Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054 SF 1" x 1/8" Aluminum, Swaged Grating	20.25	1.28
For Bearing Bars At 15/16" On-Center, Add	11.32	
For Crossbars At 2" On-Center, Add	1.41	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.16	
For Powder Coating, Add	2.65	
05 53 13 00-0055 SF 1" x 3/16" Aluminum, Swaged Grating	26.16	1.28
For Bearing Bars At 15/16" On-Center, Add	15.10	
For Crossbars At 2" On-Center, Add	1.89	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.31	
For Powder Coating, Add	3.54	
05 53 13 00-0056 SF 1-1/4" x 1/8" Aluminum, Swaged Grating	22.91	1.28
For Bearing Bars At 15/16" On-Center, Add	13.02	
For Crossbars At 2" On-Center, Add	1.63	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.23	
For Powder Coating, Add	3.05	
05 53 13 00-0057 SF 1-1/4" x 3/16" Aluminum, Swaged Grating	30.14	1.28
For Bearing Bars At 15/16" On-Center, Add	17.64	
For Crossbars At 2" On-Center, Add	2.21	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.41	
For Powder Coating, Add	4.14	
05 53 13 00-0058 SF 1-1/2" x 1/8" Aluminum, Swaged Grating	26.06	1.28
For Bearing Bars At 15/16" On-Center, Add	15.03	
For Crossbars At 2" On-Center, Add	1.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.31	
For Powder Coating, Add	3.52	
05 53 13 00-0059 SF 1-1/2" x 3/16" Aluminum, Swaged Grating	34.41	1.28
For Bearing Bars At 15/16" On-Center, Add	20.38	
For Crossbars At 2" On-Center, Add	2.55	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.52	
For Powder Coating, Add	4.78	
05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating	39.32	1.28
For Bearing Bars At 15/16" On-Center, Add	23.52	
For Crossbars At 2" On-Center, Add	2.94	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.64	
For Powder Coating, Add	5.51	



Metals			05	05
Metal Fabrications			05 50	
Metal Gratings			05 53	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 53 13 00-0061	SF	2" x 3/16" Aluminum, Swaged Grating..... For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct For Powder Coating, Add	44.20 26.64 3.33 0.16 -2.76 6.24	1.28
05 53 13 00-0062	SF	2-1/4" x 3/16" Aluminum, Swaged Grating..... For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct For Powder Coating, Add	49.11 29.79 3.72 0.16 -2.89 6.98	1.28
05 53 13 00-0063	SF	2-1/2" x 3/16" Aluminum, Swaged Grating..... For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting, Deduct For Powder Coating, Add	54.00 32.92 4.11 0.16 -3.01 7.71	1.28
05 53 13 00-0064		Riveted Grating (05 53 13) Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065		Steel, Riveted Grating (05 53 13 00-0064) Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066	SF	3/4" x 1/8", 7.0 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Set In Place Without Bolting Or Tack Welding, Deduct	84.77 0.22 3.95 70.61 28.36 -3.78	1.28
05 53 13 00-0067	SF	3/4" x 3/16", 8.5 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Set In Place Without Bolting Or Tack Welding, Deduct	99.82 0.22 4.67 83.54 33.55 -4.15	1.28
05 53 13 00-0068	SF	1" x 1/8", 8.0 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	91.70 0.22 4.28 76.56 30.75 0.16 -3.95	1.28
05 53 13 00-0069	SF	1" x 3/16", 9.5 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	105.55 0.22 4.94 88.46 35.53 0.16 -4.30	1.28
05 53 13 00-0070	SF	1-1/4" x 1/8", 9.0 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	97.44 0.22 4.55 81.49 32.73 0.16 -4.09	1.28
05 53 13 00-0071	SF	1-1/4" x 3/16", 11.1 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	116.23 0.22 5.46 97.63 39.21 0.16 -4.56	1.28
05 53 13 00-0072	SF	1-1/2" x 1/8", 10.1 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	103.54 0.22 4.82 86.24 34.63 0.16 -4.62	1.58
05 53 13 00-0073	SF	1-1/2" x 3/16", 12.5 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	123.63 0.22 5.78 103.49 41.57 0.16 -5.12	1.58

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0074 SF 1-3/4" x 3/16", 14.0 Lb./SF, Steel, Riveted Grating 133.88		1.58
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.28	
For 304 Stainless Steel, Add	112.30	
For 5/8" Clear Opening, Add	45.10	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-5.38	
05 53 13 00-0075 SF 2" x 3/16", 17.0 Lb./SF, Steel, Riveted Grating 156.77		1.58
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.37	
For 304 Stainless Steel, Add	131.96	
For 5/8" Clear Opening, Add	53.00	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-5.95	
05 53 13 00-0076 SF 2-1/4" x 3/16", 18.5 Lb./SF, Steel, Riveted Grating 164.75		1.58
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.76	
For 304 Stainless Steel, Add	138.81	
For 5/8" Clear Opening, Add	55.75	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-6.15	
05 53 13 00-0077 SF 2-1/2" x 3/16", 20.0 Lb./SF, Steel, Riveted Grating 171.85		1.58
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	8.10	
For 304 Stainless Steel, Add	144.91	
For 5/8" Clear Opening, Add	58.20	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-6.33	
05 53 13 00-0078 Aluminum, Riveted Grating (05 53 13 00-0064)		
Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079 SF 3/4" x 1/8", 2.4 Lb./SF, Aluminum, Riveted Grating 42.94		1.28
For 5/8" Clear Opening, Add	13.93	
For Powder Coating, Add	6.06	
For Set In Place Without Bolting, Deduct	-2.73	
05 53 13 00-0080 SF 3/4" x 3/16", 2.9 Lb./SF, Aluminum, Riveted Grating 50.92		1.28
For 5/8" Clear Opening, Add	16.68	
For Powder Coating, Add	7.25	
For Set In Place Without Bolting, Deduct	-2.93	
05 53 13 00-0081 SF 1" x 1/8", 2.7 Lb./SF, Aluminum, Riveted Grating 47.20		1.28
For 5/8" Clear Opening, Add	15.40	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	6.69	
For Set In Place Without Bolting, Deduct	-2.84	
05 53 13 00-0082 SF 1" x 3/16", 3.2 Lb./SF, Aluminum, Riveted Grating 55.00		1.28
For 5/8" Clear Opening, Add	18.09	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	7.86	
For Set In Place Without Bolting, Deduct	-3.03	
05 53 13 00-0083 SF 1-1/4" x 1/8", 3.1 Lb./SF, Aluminum, Riveted Grating 52.91		1.28
For 5/8" Clear Opening, Add	17.37	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	7.55	
For Set In Place Without Bolting, Deduct	-2.98	
05 53 13 00-0084 SF 1-1/4" x 3/16", 3.8 Lb./SF, Aluminum, Riveted Grating 63.74		1.28
For 5/8" Clear Opening, Add	21.10	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	9.18	
For Set In Place Without Bolting, Deduct	-3.25	
05 53 13 00-0085 SF 1-1/2" x 1/8", 3.4 Lb./SF, Aluminum, Riveted Grating 56.81		1.28
For 5/8" Clear Opening, Add	18.71	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	8.14	
For Set In Place Without Bolting, Deduct	-3.08	
05 53 13 00-0086 SF 1-1/2" x 3/16", 4.3 Lb./SF, Aluminum, Riveted Grating 70.56		1.28
For 5/8" Clear Opening, Add	23.46	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	10.20	
For Set In Place Without Bolting, Deduct	-3.42	
05 53 13 00-0087 SF 1-3/4" x 3/16", 4.8 Lb./SF, Aluminum, Riveted Grating 77.77		1.28
For 5/8" Clear Opening, Add	25.94	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	11.28	
For Set In Place Without Bolting, Deduct	-3.60	
05 53 13 00-0088 SF 2" x 3/16", 5.8 Lb./SF, Aluminum, Riveted Grating 92.58		1.28
For 5/8" Clear Opening, Add	31.05	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	13.50	
For Set In Place Without Bolting, Deduct	-3.97	
05 53 13 00-0089 SF 2-1/4" x 3/16", 6.4 Lb./SF, Aluminum, Riveted Grating 100.98		1.28
For 5/8" Clear Opening, Add	33.95	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	14.76	
For Set In Place Without Bolting, Deduct	-4.18	



Metals			05
Metal Fabrications			05 50
Metal Gratings			05 53

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0090	SF		2-1/2" x 3/16", 7.2 Lb./SF, Aluminum, Riveted Grating	112.25	1.28
			For 5/8" Clear Opening, Add	37.84	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	16.45	
			For Set In Place Without Bolting, Deduct	-4.46	
05 53 16 Plank Gratings (05 53)					
05 53 16 00-0001			Grate-Lock Steel Plank Grating (05 53 16)		
			Note: Smooth or traction grip surface.		
05 53 16 00-0002	SF		1-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating	18.75	0.99
			For Stair Tread Application, Add	2.17	
05 53 16 00-0003	SF		2-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating	20.04	1.23
			For Stair Tread Application, Add	2.37	
05 53 16 00-0004	SF		3" Height, 18 Gauge Steel Grate-Lock Plank Grating	21.13	1.34
			For Stair Tread Application, Add	2.52	
05 53 16 00-0005	SF		4" Height, 18 Gauge Steel Grate-Lock Plank Grating	23.07	1.46
			For Stair Tread Application, Add	2.75	
05 53 16 00-0006	SF		1-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating	22.84	1.11
			For Stair Tread Application, Add	2.62	
05 53 16 00-0007	SF		2-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating	24.31	1.34
			For Stair Tread Application, Add	2.83	
05 53 16 00-0008	SF		1-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating	28.04	1.28
			For Stair Tread Application, Add	3.19	
05 53 16 00-0009	SF		2-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating	29.85	1.58
			For Stair Tread Application, Add	3.46	
05 53 16 00-0010	SF		3" Height, 14 Gauge Steel Grate-Lock Plank Grating	31.97	1.98
			For Stair Tread Application, Add	3.79	
05 53 16 00-0011	SF		4" Height, 14 Gauge Steel Grate-Lock Plank Grating	35.28	2.22
			For Stair Tread Application, Add	4.19	
05 54 Metal Floor Plates (05 50)					
05 54 00 00-0001			Steel Floor Plates (05 54)		
05 54 00 00-0002	SF		16 Gauge Steel Raised Or Diamond Pattern Floor Plates	20.98	1.52
05 54 00 00-0003	SF		14 Gauge Steel Raised Or Diamond Pattern Floor Plates	24.03	1.52
05 54 00 00-0004	SF		12 Gauge Steel Raised Or Diamond Pattern Floor Plates	30.16	1.52
05 54 00 00-0005	SF		1/8" Steel Raised Or Diamond Pattern Floor Plates	40.38	1.63
05 54 00 00-0006	SF		1/4" Steel Raised Or Diamond Pattern Floor Plates	51.38	1.76
05 54 00 00-0007			Aluminum Alloy Floor Plates (05 54)		
05 54 00 00-0008	SF		0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	31.90	1.28
			For Powder Coating, Add	4.40	
05 54 00 00-0009	SF		0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	36.61	1.52
			For Powder Coating, Add	5.05	
05 54 00 00-0010	SF		0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	41.34	1.63
			For Powder Coating, Add	5.71	
05 54 00 00-0011			Type 304 Stainless Steel Floor Plates (05 54)		
05 54 00 00-0012	SF		1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate	39.36	1.76
05 54 00 00-0013	SF		3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate	47.05	1.98
05 54 00 00-0014	SF		1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate	60.95	2.34
05 55 Metal Stair Treads and Nosings (05 50)					
05 55 13			Metal Stair Treads (05 55)		
05 55 13 00-0001			Abrasive Cast Aluminum Stair Treads (05 55 13)		
			Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0002	LF		8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	78.03	7.87
			For 3/8" Thick, Add	16.36	
05 55 13 00-0003	LF		9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	85.83	7.87
			For 3/8" Thick, Add	18.31	
05 55 13 00-0004	LF		10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	93.60	7.87
			For 3/8" Thick, Add	20.25	
05 55 13 00-0005	LF		11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	101.43	7.87
			For 3/8" Thick, Add	22.21	
05 55 13 00-0006	LF		12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	109.18	7.87
			For 3/8" Thick, Add	24.15	
05 55 13 00-0007			Abrasive Cast Iron Stair Treads (05 55 13)		
			Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0008	LF		8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	108.27	7.87
05 55 13 00-0009	LF		9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	119.82	7.87
05 55 13 00-0010	LF		10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	131.40	7.87
05 55 13 00-0011	LF		11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	142.95	7.87
05 55 13 00-0012	LF		12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	154.53	7.87

05 Metals**05 50 Metal Fabrications****05 55 Metal Stair Treads and Nosings**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0013			Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0014	LF	6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	41.55	7.87	
05 55 13 00-0015	LF	9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	48.62	7.87	
05 55 13 00-0016	LF	11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	51.73	7.87	
05 55 13 00-0017			Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads (05 55 13) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0018	LF	8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	61.05 4.91	7.87	
		<i>For Two Color Tread, Add</i>	3.68		
05 55 13 00-0019	LF	9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	61.64 4.91	7.87	
		<i>For Two Color Tread, Add</i>	3.68		
05 55 13 00-0020	LF	11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	74.35 4.91	7.87	
		<i>For Two Color Tread, Add</i>	3.68		
05 55 13 00-0021	LF	12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	85.48 4.91	7.87	
		<i>For Two Color Tread, Add</i>	3.68		
05 55 13 00-0022	LF	15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	100.00 4.91	7.87	
		<i>For Two Color Tread, Add</i>	3.68		
05 55 13 00-0023			Stair Landing Treads (05 55 13)		
05 55 13 00-0024			Abrasive Cast Aluminum Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025	SF	5/16" Thick, Abrasive Cast Aluminum Landing Treads..... <i>For 3/8" Thick, Add</i>	109.18 24.15	7.87	
05 55 13 00-0026			Abrasive Cast Iron Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027	SF	3/8" Thick, Abrasive Cast Iron Landing Treads.....	154.53	7.87	
05 55 13 00-0028			Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads (05 55 13 00-0023) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029	SF	9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	101.28 4.91	7.87	
05 55 13 00-0030			Open Cast Iron Stair Tread (05 55 13) Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031	RSR	3'-6" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	734.23 62.88	46.76	
05 55 13 00-0032	RSR	4'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	823.76 70.38	53.78	
05 55 13 00-0033	RSR	5'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	907.56 77.44	63.13	
05 55 16			Metal Stair Nosings (05 55)		
05 55 16 00-0001			Abrasive Cast Aluminum Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002	LF	3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	33.15 6.14	5.37	
05 55 16 00-0003	LF	4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	40.68 8.02	5.37	
05 55 16 00-0004	LF	6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	57.46 12.22	5.37	
05 55 16 00-0005			Abrasive Cast Iron Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006	LF	3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	38.64 7.51	5.37	
05 55 16 00-0007	LF	4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	47.91 9.83	5.37	
05 55 16 00-0008	LF	6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	66.24 14.41	5.37	



Metals		05	05
Metal Fabrications		05 50	
Metal Stair Treads and Nosings		05 55	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 55 16 00-0009

Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings (05 55 16)

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.

05 55 16 00-0010	LF	1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	28.05	5.37
05 55 16 00-0011	LF	3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	31.68	5.37
05 55 16 00-0012	LF	4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	34.45	5.37
05 55 16 00-0013	LF	6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	43.06	5.37
05 55 16 00-0014	LF	1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	29.03	5.37
05 55 16 00-0015	LF	3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	32.12	5.37
05 55 16 00-0016	LF	4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	35.18	5.37
05 55 16 00-0017	LF	3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	33.32	5.37

05 56 Metal Castings (05 50)

05 56 00 00-0001 Castings (05 56)

05 56 00 00-0002	LB	Up To 150 Lb., Miscellaneous Castings, Light Section	5.79	0.59
05 56 00 00-0003	LB	>150 Lb., Miscellaneous Castings, Heavy Section	9.90	0.47

05 58 Formed Metal Fabrications (05 50)

05 58 16 Formed Metal Enclosures (05 58)

05 58 16 00-0001 Drip Pan (05 58 16)

05 58 16 00-0002	SF	Stainless Steel Drip Pan	120.89	7.43
05 58 16 00-0003	SF	Galvanized Steel Drip Pan	119.42	7.43
05 58 16 00-0004	SF	Aluminum Drip Pan	83.86	5.95
05 58 16 00-0005	SF	Plastic Drip Pan	21.91	5.20

05 58 23 Formed Metal Guards (05 58)

05 58 23 00-0001 Protective Guard Rails (05 58 23)

Note: Includes painted finish.

05 58 23 00-0002 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)

Note: Steel King Armor Guard.

05 58 23 00-0003 Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002)

Note: Excludes posts. Includes fasteners.

05 58 23 00-0004	EA	1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	224.78	25.78
05 58 23 00-0005	EA	2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	263.77	25.78
05 58 23 00-0006	EA	3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	300.56	25.78
05 58 23 00-0007	EA	4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	339.55	25.78
05 58 23 00-0008	EA	5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	376.55	25.78
05 58 23 00-0009	EA	6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	424.50	25.78
05 58 23 00-0010	EA	7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	457.18	25.78
05 58 23 00-0011	EA	8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	507.77	25.78
05 58 23 00-0012	EA	9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	540.96	25.78
05 58 23 00-0013	EA	10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	564.68	25.78

05 58 23 00-0014 Posts For 2-Rib Guard Rails (05 58 23 00-0002)

Note: Includes drilling, surface mounting plate and anchors.

05 58 23 00-0015	EA	12" Height, Single Rail Post For 2-Rib Guard Rails	453.11	53.70
05 58 23 00-0016	EA	42" Height, Triple Rail Post For 2-Rib Guard Rails	588.54	53.70

05 58 23 00-0017 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)

Note: Steel King Steel Guard.

05 58 23 00-0018 Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners.

05 58 23 00-0019	EA	1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	248.28	25.78
05 58 23 00-0020	EA	2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	274.21	25.78
05 58 23 00-0021	EA	3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	306.56	25.78
05 58 23 00-0022	EA	4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	336.81	25.78
05 58 23 00-0023	EA	5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	371.80	25.78
05 58 23 00-0024	EA	6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	388.67	25.78
05 58 23 00-0025	EA	7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	429.25	25.78
05 58 23 00-0026	EA	8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	463.50	25.78
05 58 23 00-0027	EA	9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	499.86	25.78
05 58 23 00-0028	EA	10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	536.75	25.78

05 58 23 00-0029 Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners and lift-out mounting plate.

05 58 23 00-0030	EA	1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	364.95	25.78
05 58 23 00-0031	EA	2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	393.41	25.78
05 58 23 00-0032	EA	3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	422.92	25.78

05 Metals**05 50 Metal Fabrications****05 58 Formed Metal Fabrications**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 58 23 00-0033 EA 4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	457.18	25.78
05 58 23 00-0034 EA 5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	491.43	25.78
05 58 23 00-0035 EA 6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	519.36	25.78
05 58 23 00-0036 EA 7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	551.50	25.78
05 58 23 00-0037 EA 8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	587.87	25.78
05 58 23 00-0038 EA 9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	626.86	25.78
05 58 23 00-0039 EA 10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	661.12	25.78
05 58 23 00-0040 Posts For 3-Rib Guard Rails (05 58 23 00-0017) Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0041 EA 18" Height, Single Rail Post For 3-Rib Guard Rails	399.15	53.70
05 58 23 00-0042 EA 42" Height, Double Rail Post For 3-Rib Guard Rails.....	508.97	53.70
05 58 23 00-0043 All-Welded, Protective Guards (05 58 23) Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0044 All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0045 EA 36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	521.06	71.61
05 58 23 00-0046 EA 48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	547.41	71.61
05 58 23 00-0047 EA 36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	562.70	71.61
05 58 23 00-0048 EA 48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	585.36	71.61
05 58 23 00-0049 EA 36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	580.09	71.61
05 58 23 00-0050 EA 48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	608.02	71.61
05 58 23 00-0051 EA 36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	615.92	71.61
05 58 23 00-0052 EA 48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	624.88	71.61
05 58 23 00-0053 EA 48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	667.56	71.61
05 58 23 00-0054 Corner Style, All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0055 EA 24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	684.43	71.61
05 58 23 00-0056 EA 30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	716.05	71.61
05 58 23 00-0057 EA 24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	729.22	71.61
05 58 23 00-0058 EA 30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	794.04	71.61
05 58 23 00-0059 Warehouse Safety Bollards (05 58 23) Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060 EA 24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	319.71	53.70
05 58 23 00-0061 EA 36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	371.78	53.70
05 58 23 00-0062 EA 42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	426.90	53.70
05 58 23 00-0063 EA 36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	441.97	53.70
05 58 23 00-0064 EA 42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	476.75	53.70
05 59 Metal Specialties (05 50)		
05 59 65 Metal Chain (05 59)		
05 59 65 00-0001 Alloy Steel Chain, Self Colored, Cut Length (05 59 65) Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002 LF 3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	6.77	1.13
For Plastic Dipped, Add	0.68	
05 59 65 00-0003 LF 1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	8.62	1.51
For Plastic Dipped, Add	0.84	
05 59 65 00-0004 LF 3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	13.58	3.00
For Plastic Dipped, Add	1.14	
05 59 65 00-0005 LF 1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	21.77	5.07
For Plastic Dipped, Add	1.74	
05 59 65 00-0006 LF 5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	36.75	8.57
For Plastic Dipped, Add	2.94	
05 59 65 00-0007 LF 3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	51.58	12.02
For Plastic Dipped, Add	4.13	
05 59 65 00-0008 LF 7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	70.42	15.02
For Plastic Dipped, Add	6.06	
05 59 65 00-0009 LF 1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	101.97	20.02
For Plastic Dipped, Add	9.29	
05 59 65 00-0010 LF 1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	166.05	30.04
For Plastic Dipped, Add	15.90	
05 59 65 00-0011 316L Stainless Steel Chain, Cut Length (05 59 65)		
05 59 65 00-0012 CLF 1/8" Diameter 316L Stainless Steel Chain, Cut Length.....	2,620.30	100.09
05 59 65 00-0013 CLF 3/16" Diameter 316L Stainless Steel Chain, Cut Length.....	3,223.97	120.17
05 59 65 00-0014 CLF 9/32" Diameter 316L Stainless Steel Chain, Cut Length.....	4,041.28	150.21
05 59 65 00-0015 CLF 5/16" Diameter 316L Stainless Steel Chain, Cut Length.....	5,459.16	200.32
05 59 65 00-0016 CLF 3/8" Diameter 316L Stainless Steel Chain, Cut Length.....	6,221.51	300.41
05 59 65 00-0017 CLF 1/2" Diameter 316L Stainless Steel Chain, Cut Length.....	9,396.49	500.72



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Specialties	05 59	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST

END OF SECTION 05

05	05	Metals
	05 50	Metal Fabrications
	05 59	Metal Specialties



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Thermal And Moisture Protection			07
Dampproofing and Waterproofing			07 10
Dampproofing			07 11

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

07 Thermal And Moisture Protection

07 10 Dampproofing and Waterproofing⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

07 11 Dampproofing^(07 10)

07 11 13 Bituminous Dampproofing^(07 11)

07 11 13 00-0001	Fibrous Asphalt Dampproofing, Brush, Roller Or Spray ^(07 11 13)		
07 11 13 00-0002	CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	215.74	
07 11 13 00-0003	CSF 2 Coats, Brush, Roller Or Spray, Fibrous Asphalt Dampproofing	334.74	
07 11 13 00-0004	Fibrous Asphalt Dampproofing, Troweled On ^(07 11 13)		
07 11 13 00-0005	CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	368.67	
07 11 13 00-0006	CSF Primer And 2 Coats, Troweled On, Fibrous Asphalt Dampproofing	568.45	
07 11 13 00-0007	Asphaltic Paint Dampproofing ^(07 11 13)		
07 11 13 00-0008	CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	174.38	
07 11 13 00-0009	CSF 2 Coats, Brushed On, Asphaltic Paint Dampproofing	321.98	

07 11 19 Sheet Dampproofing^(07 11)

07 11 19 00-0001	Neoprene ^(07 11 19)		
07 11 19 00-0002	SF 5 To 20 SF, 1/16" Patch Neoprene Roof	47.21	

07 13 Sheet Waterproofing^(07 10)

07 13 13 Bituminous Sheet Waterproofing^(07 13)

07 13 13 00-0001	15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped ^(07 13 13)		
07 13 13 00-0002	CSF 1 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	404.84	143.13
	For 30 Lb. Felt, Add	88.94	
	For Application To Horizontal Surfaces, Deduct	-42.94	
07 13 13 00-0003	CSF 2 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	508.64	161.01
	For 30 Lb. Felt, Add	139.96	
	For Application To Horizontal Surfaces, Deduct	-48.30	
07 13 13 00-0004	CSF 3 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	612.45	178.91
	For 30 Lb. Felt, Add	190.97	
	For Application To Horizontal Surfaces, Deduct	-53.67	
07 13 13 00-0005	CSF 4 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	716.24	196.80
	For 30 Lb. Felt, Add	241.99	
	For Application To Horizontal Surfaces, Deduct	-59.04	
07 13 13 00-0006	CSF 5 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	820.05	214.69
	For 30 Lb. Felt, Add	293.00	
	For Application To Horizontal Surfaces, Deduct	-64.41	

07 13 13 00-0007 Asphalt Coated Protective Board^(07 13 13)

07 13 13 00-0008	CSF 1/8" Asphalt Coated Protective Board	344.90	143.24
	For Application To Horizontal Surfaces, Deduct	-47.77	
07 13 13 00-0009	CSF 1/4" Asphalt Coated Protective Board	430.41	148.74
	For Application To Horizontal Surfaces, Deduct	-49.58	
07 13 13 00-0010	CSF 3/8" Asphalt Coated Protective Board	533.25	154.99
	For Application To Horizontal Surfaces, Deduct	-51.65	
07 13 13 00-0011	CSF 1/2" Asphalt Coated Protective Board	587.79	161.24
	For Application To Horizontal Surfaces, Deduct	-53.76	

07 13 53 Elastomeric Sheet Waterproofing^(07 13)

07 13 53 00-0001	Rubberized Membrane Sheet ^(07 13 53)		
07 13 53 00-0002	SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	8.94	1.49
	For Floor Surfaces, Deduct	-1.43	
07 13 53 00-0003	Ethylene Propylene Diene Monomer (EPDM) ^(07 13 53)		
07 13 53 00-0004	CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	557.52	208.83
	For Application To Horizontal Surfaces, Deduct	-62.64	
07 13 53 00-0005	CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	622.10	208.83
	For Application To Horizontal Surfaces, Deduct	-62.64	

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 13 Sheet Waterproofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0006			Butyl Sheet Waterproofing (07 13 53)		
07 13 53 00-0007	CSF		1/32" Butyl Sheet Waterproofing.....	115.25	52.21
			For Joint Taping, Add	17.79	
			For Each Additional Ply, Add	85.91	
			For Application To Horizontal Surfaces, Deduct	-7.85	
07 13 53 00-0008	CSF		1/16" Butyl Sheet Waterproofing.....	135.27	52.21
			For Joint Taping, Add	18.79	
			For Each Additional Ply, Add	99.92	
			For Application To Horizontal Surfaces, Deduct	-7.85	
07 13 53 00-0009			Butyl With Nylon (07 13 53)		
07 13 53 00-0010	CSF		1/32" Butyl Elastomeric Waterproofing With Nylon	126.69	52.21
			For Joint Taping, Add	18.37	
			For Each Additional Ply, Add	93.91	
			For Application To Horizontal Surfaces, Deduct	-7.85	
07 13 53 00-0011	CSF		1/16" Butyl Elastomeric Waterproofing With Nylon	139.57	52.21
			For Joint Taping, Add	19.01	
			For Each Additional Ply, Add	102.93	
			For Application To Horizontal Surfaces, Deduct	-7.85	
07 13 53 00-0012			Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013	CSF		1/32" Neoprene Sheet Waterproofing	192.56	52.21
			For Joint Taping, Add	21.66	
			For Each Additional Ply, Add	140.02	
			For Application To Horizontal Surfaces, Deduct	-7.85	
07 13 53 00-0014	CSF		1/16" Neoprene Sheet Waterproofing	277.80	52.21
			For Joint Taping, Add	25.92	
			For Each Additional Ply, Add	199.69	
			For Application To Horizontal Surfaces, Deduct	-7.85	
07 13 53 00-0015			Neoprene With Nylon (07 13 53)		
07 13 53 00-0016	CSF		1/32" Neoprene Elastomeric Waterproofing With Nylon	201.46	52.21
			For Joint Taping, Add	22.10	
			For Each Additional Ply, Add	146.25	
			For Application To Horizontal Surfaces, Deduct	-7.85	
07 13 53 00-0017	CSF		1/16" Neoprene Elastomeric Waterproofing With Nylon	292.01	52.21
			For Joint Taping, Add	26.63	
			For Each Additional Ply, Add	209.64	
			For Application To Horizontal Surfaces, Deduct	-7.85	
07 13 53 00-0018			Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019	CSF		4 Mil Polyethylene Vapor Barrier	46.35	17.46
			For Joint Taping, Add	11.20	
			For Each Additional Ply, Add	36.31	
			For Application To Horizontal Surfaces, Deduct	-5.80	
07 13 53 00-0020	CSF		6 Mil Polyethylene Vapor Barrier	47.46	17.46
			For Joint Taping, Add	11.26	
			For Each Additional Ply, Add	37.09	
			For Application To Horizontal Surfaces, Deduct	-5.80	
07 13 53 00-0021	CSF		10 Mil Polyethylene Vapor Barrier	75.76	17.46
			For Joint Taping, Add	12.68	
			For Each Additional Ply, Add	56.90	
			For Application To Horizontal Surfaces, Deduct	-5.80	
07 13 53 00-0022	CSF		60 Mil Polyethylene Vapor Barrier With Bentonite	218.56	17.46
			Note: Includes seam tape, liquid mastic, anchors and termination bar.		
			For Each Additional Ply, Add	157.29	
			For Application To Horizontal Surfaces, Deduct	-6.44	
07 13 53 00-0023			Polyvinyl Chloride (PVC) Vapor Barrier (07 13 53)		
07 13 53 00-0024	CSF		10 Mil Polyvinyl Chloride (PVC) Vapor Barrier	75.77	19.33
			For Joint Taping, Add	12.68	
			For Each Additional Ply, Add	56.90	
			For Application To Horizontal Surfaces, Deduct	-5.80	
07 13 53 00-0025	CSF		20 Mil Polyvinyl Chloride (PVC) Vapor Barrier	104.25	20.04
			For Joint Taping, Add	14.44	
			For Each Additional Ply, Add	76.99	
			For Application To Horizontal Surfaces, Deduct	-6.02	
07 13 53 00-0026	CSF		30 Mil Polyvinyl Chloride (PVC) Vapor Barrier	142.77	20.76
			For Joint Taping, Add	16.69	
			For Each Additional Ply, Add	104.09	
			For Application To Horizontal Surfaces, Deduct	-6.23	
07 13 53 00-0027			Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028	CSF		4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4)	55.09	17.90

**Thermal And Moisture Protection 07****Dampproofing and Waterproofing 07 10****Fluid-Applied Waterproofing 07 14****07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 14 Fluid-Applied Waterproofing (07 10)		
07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)		
07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)		
07 14 13 00-0002 SF 90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface	2.90	
Note: Includes primer.		
For Application To Horizontal Surfaces, Deduct		
For Reinforcing Fabric, Add		
07 14 13 00-0003 SF 125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	3.37	
Note: Includes primer.		
For Application To Horizontal Surfaces, Deduct		
For Reinforcing Fabric, Add		
07 14 16 Cold Fluid-Applied Waterproofing (07 14)		
07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)		
07 14 16 00-0002 SF 60 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing	5.10	
For Application To Horizontal Surfaces, Deduct		
07 14 16 00-0003 SF 90 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing	5.76	
For Application To Horizontal Surfaces, Deduct		
07 14 16 00-0004 SF 120 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing	6.49	
For Application To Horizontal Surfaces, Deduct		
07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene (CSPE) Polymer (07 14 16)		
07 14 16 00-0006 SF 15 Mil Finish Coat, 1 Part Solution, Chlorosulfonated Polyethylene (CSM) Polymer.....	3.79	
07 14 16 00-0007 Copolymer Compound (07 14 16)		
07 14 16 00-0008 SF 32 Mil, Fluid Elastomeric Copolymer Compound For Slabs.....	5.88	
07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)		
07 14 16 00-0010 CSF 1/8" Fiberglass Reinforced, Fluid Applied Neoprene	677.05	
For Application To Horizontal Surfaces, Deduct		
07 14 16 00-0011 CSF 50 Mil, 4 Coats, Fluid Applied Neoprene	1,284.89	
For Application To Horizontal Surfaces, Deduct		
07 14 16 00-0012 CSF 90 Mil, 4 Coats, Fluid Applied Neoprene	2,071.56	
For Application To Horizontal Surfaces, Deduct		
07 16 Cementitious and Reactive Waterproofing (07 10)		
07 16 13 Polymer Modified Cement Waterproofing (07 16)		
07 16 13 00-0001 SF Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	5.21	
Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.		
07 16 16 Crystalline Waterproofing (07 16)		
07 16 16 00-0001 SF Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....	6.34	
07 16 19 Metal Oxide Waterproofing (07 16)		
07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)		
Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.		
07 16 19 00-0002 CSF Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	565.72	
For Application To Horizontal Surfaces, Deduct		
07 19 Water Repellents (07 10)		
07 19 13 Acrylic Sealer (07 19)		
Note: Per coat.		
07 19 13 00-0001 SF Spray On Concrete, Acrylic Sealer	3.22	
07 19 13 00-0002 SF Spray On Concrete Block/Brick, Acrylic Sealer	3.83	
07 19 13 00-0003 SF Spray On Stone, Acrylic Sealer	4.22	
07 19 16 Silane Water Repellents (07 19)		
07 19 16 00-0001 Silane Concrete Sealer (07 19 16)		
07 19 16 00-0002 SF Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	0.83	
07 19 16 00-0003 SF Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	1.22	

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 19 Water Repellents**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
07 19 16 00-0004		Silane/Siloxane Concrete Sealer ^(07 19 16)			
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40) 1.40			
		Note: 40% silane, alcohol based.			
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40) 2.05			
		Note: 40% silane, alcohol based.			
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB) 0.54			
		Note: 200 SF/GAL			
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB) 0.79			

END OF SECTION 07



	Finishes	09	
	Maintenance of Finishes	09 01	
	Maintenance of Painting and Coating	09 01 90	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

09 Finishes

09 01 Maintenance of Finishes (09)

09 01 90 Maintenance of Painting and Coating (09 01)

09 01 90 52 Maintenance Repainting (09 01 90)

09 01 90 52-0001 Cleaning And Preparation Of Painted And Unpainted Surfaces (09 01 90 52)

Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Media blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment and collection.

09 01 90 52-0002 Concrete, Stone And Masonry Surfaces, Surface Preparation (09 01 90 52-0001)

09 01 90 52-0003	SF	Trisodium Phosphate (TSP), Clean Concrete, Stone Or Masonry Surfaces, Surface Preparation	0.63
		For Up To 100, Add	0.46
		For >100 To 250, Add	0.21
		For >250 To 500, Add	0.09
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.06
		For >15,000 To 30,000, Deduct	-0.09
		For >30,000, Deduct	-0.13
09 01 90 52-0004	SF	Calcimine Removal/Washing, Concrete, Stone And Masonry Surfaces, Surface Preparation	0.62
		For Up To 100, Add	1.11
		For >100 To 250, Add	0.29
		For >250 To 500, Add	0.14
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.06
		For >15,000 To 30,000, Deduct	-0.09
		For >30,000, Deduct	-0.12
09 01 90 52-0005	SF	Chemical Clean, Brush And Wash, Concrete, Stone And Masonry Surfaces, Surface Preparation	0.99
		For Up To 100, Add	1.71
		For >100 To 250, Add	0.45
		For >250 To 500, Add	0.22
		For >5,000 To 10,000, Deduct	-0.05
		For >10,000 To 15,000, Deduct	-0.09
		For >15,000 To 30,000, Deduct	-0.14
		For >30,000, Deduct	-0.19
09 01 90 52-0006	SF	Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation	1.57
		For Up To 100, Add	3.14
		For >100 To 250, Add	0.79
		For >250 To 500, Add	0.39
		For >5,000 To 10,000, Deduct	-0.08
		For >10,000 To 15,000, Deduct	-0.16
		For >15,000 To 30,000, Deduct	-0.24
		For >30,000, Deduct	-0.31
09 01 90 52-0007	SF	Steam Clean, Concrete, Stone And Masonry Surfaces, Surface Preparation	0.90
		For Up To 100, Add	1.56
		For >100 To 250, Add	0.41
		For >250 To 500, Add	0.20
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.08
		For >15,000 To 30,000, Deduct	-0.13
		For >30,000, Deduct	-0.17
09 01 90 52-0008	SF	2,000 To 5,000 PSI Pressure Wash, Concrete, Stone And Masonry Surfaces, Surface Preparation	0.58
		For Up To 100, Add	0.95
		For >100 To 250, Add	0.26
		For >250 To 500, Add	0.12
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.05
		For >15,000 To 30,000, Deduct	-0.08
		For >30,000, Deduct	-0.11
09 01 90 52-0009	SF	10,000 To 12,000 PSI Water Blast, Concrete, Stone And Masonry Surfaces, Surface Preparation	1.62
		For Up To 100, Add	2.93
		For >100 To 250, Add	0.76
		For >250 To 500, Add	0.37
		For >5,000 To 10,000, Deduct	-0.08
		For >10,000 To 15,000, Deduct	-0.15
		For >15,000 To 30,000, Deduct	-0.24
		For >30,000, Deduct	-0.31
09 01 90 52-0010	SF	30,000 To 40,000 PSI Water Blast, Concrete, Stone And Masonry Surfaces, Surface Preparation	2.66
		For Up To 100, Add	5.01
		For >100 To 250, Add	1.28
		For >250 To 500, Add	0.63
		For >5,000 To 10,000, Deduct	-0.13
		For >10,000 To 15,000, Deduct	-0.26
		For >15,000 To 30,000, Deduct	-0.39
		For >30,000, Deduct	-0.52

09 Finishes**09 01 Maintenance of Finishes****09 01 90 Maintenance of Painting and Coating**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0011 SF Abrasive Glass Media Blasting, Concrete And Masonry Surfaces, Surface Preparation 4.19 Note: 3 Lb. of sand or glass abrasive media material per SF For 4.5 Lb. Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add 2.44 For 6 Lb. Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add 5.05 For 9 Lb. Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add 8.38 For Up To 100, Add 7.24 For >100 To 250, Add 1.91 For >250 To 500, Add 0.93 For >5,000 To 10,000, Deduct -0.19 For >10,000 To 15,000, Deduct -0.39 For >15,000 To 30,000, Deduct -0.61 For >30,000, Deduct -0.80		
09 01 90 52-0012 Metal Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0013 SF Trisodium Phosphate (TSP), Clean Metal Surfaces, Surface Preparation 0.60 For Up To 100, Add 0.44 For >100 To 250, Add 0.20 For >250 To 500, Add 0.09 For >5,000 To 10,000, Deduct -0.03 For >10,000 To 15,000, Deduct -0.06 For >15,000 To 30,000, Deduct -0.09 For >30,000, Deduct -0.12		
09 01 90 52-0014 SF Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation 0.99 For Up To 100, Add 0.61 For >100 To 250, Add 0.28 For >250 To 500, Add 0.12 For >5,000 To 10,000, Deduct -0.05 For >10,000 To 15,000, Deduct -0.09 For >15,000 To 30,000, Deduct -0.14 For >30,000, Deduct -0.19		
09 01 90 52-0015 SF Hand Scraping And Sanding, Metal Surfaces, Surface Preparation 1.27 For Up To 100, Add 0.95 For >100 To 250, Add 0.44 For >250 To 500, Add 0.19 For >5,000 To 10,000, Deduct -0.06 For >10,000 To 15,000, Deduct -0.13 For >15,000 To 30,000, Deduct -0.19 For >30,000, Deduct -0.25		
09 01 90 52-0016 SF 2,000 To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation 0.55 For Up To 100, Add 0.33 For >100 To 250, Add 0.15 For >250 To 500, Add 0.07 For >5,000 To 10,000, Deduct -0.03 For >10,000 To 15,000, Deduct -0.05 For >15,000 To 30,000, Deduct -0.08 For >30,000, Deduct -0.10		
09 01 90 52-0017 SF Power Tool Cleaning, Metal Surfaces, Surface Preparation 1.59 For Up To 100, Add 1.19 For >100 To 250, Add 0.56 For >250 To 500, Add 0.24 For >5,000 To 10,000, Deduct -0.08 For >10,000 To 15,000, Deduct -0.16 For >15,000 To 30,000, Deduct -0.24 For >30,000, Deduct -0.32		
09 01 90 52-0018 SF Steam Cleaning, Metal Surfaces, Surface Preparation 0.56 For Up To 100, Add 0.30 For >100 To 250, Add 0.14 For >250 To 500, Add 0.06 For >5,000 To 10,000, Deduct -0.02 For >10,000 To 15,000, Deduct -0.05 For >15,000 To 30,000, Deduct -0.08 For >30,000, Deduct -0.10		
09 01 90 52-0019 SF Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation 1.25 For Up To 100, Add 0.77 For >100 To 250, Add 0.36 For >250 To 500, Add 0.15 For >5,000 To 10,000, Deduct -0.06 For >10,000 To 15,000, Deduct -0.12 For >15,000 To 30,000, Deduct -0.18 For >30,000, Deduct -0.24		
09 01 90 52-0020 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation 1.69 For Up To 100, Add 1.02 For >100 To 250, Add 0.48 For >250 To 500, Add 0.20 For >5,000 To 10,000, Deduct -0.08 For >10,000 To 15,000, Deduct -0.16 For >15,000 To 30,000, Deduct -0.24 For >30,000, Deduct -0.32		
09 01 90 52-0021 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation 2.49 For Up To 100, Add 1.54 For >100 To 250, Add 0.72 For >250 To 500, Add 0.31 For >5,000 To 10,000, Deduct -0.12 For >10,000 To 15,000, Deduct -0.23 For >15,000 To 30,000, Deduct -0.36 For >30,000, Deduct -0.48		



		Finishes	09
		Maintenance of Finishes	09 01
		Maintenance of Painting and Coating	09 01 90

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0022	SF		Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation	4.15	
			For Up To 100, Add	2.56	
			For >100 To 250, Add	1.19	
			For >250 To 500, Add	0.51	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 15,000, Deduct	-0.39	
			For >15,000 To 30,000, Deduct	-0.60	
			For >30,000, Deduct	-0.79	
09 01 90 52-0023	SF		Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.17	
			For Up To 100, Add	1.93	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.39	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 15,000, Deduct	-0.29	
			For >15,000 To 30,000, Deduct	-0.46	
			For >30,000, Deduct	-0.60	
09 01 90 52-0024	SF		Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.92	
			For Up To 100, Add	2.36	
			For >100 To 250, Add	1.10	
			For >250 To 500, Add	0.47	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 15,000, Deduct	-0.36	
			For >15,000 To 30,000, Deduct	-0.56	
			For >30,000, Deduct	-0.75	
09 01 90 52-0025	SF		Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation	5.07	
			For Up To 100, Add	3.07	
			For >100 To 250, Add	1.43	
			For >250 To 500, Add	0.61	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 15,000, Deduct	-0.47	
			For >15,000 To 30,000, Deduct	-0.73	
			For >30,000, Deduct	-0.97	
09 01 90 52-0026	SF		Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation	6.35	
			For Up To 100, Add	3.84	
			For >100 To 250, Add	1.79	
			For >250 To 500, Add	0.77	
			For >5,000 To 10,000, Deduct	-0.29	
			For >10,000 To 15,000, Deduct	-0.59	
			For >15,000 To 30,000, Deduct	-0.92	
			For >30,000, Deduct	-1.21	
09 01 90 52-0027			Tile Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0028	SF		Trisodium Phosphate (TSP), Clean Tile Surfaces, Surface Preparation	0.55	
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.11	
09 01 90 52-0029	CSF		Chemical Alkaline Cleaner, Brush And Wash Tile Surfaces, Surface Preparation	55.26	
			For Up To 100, Add	41.16	
			For >100 To 250, Add	19.21	
			For >250 To 500, Add	8.23	
			For >5,000 To 10,000, Deduct	-2.76	
			For >10,000 To 15,000, Deduct	-5.51	
			For >15,000 To 30,000, Deduct	-8.28	
			For >30,000, Deduct	-11.03	
09 01 90 52-0030	SF		2,000 To 5,000 PSI, Pressure Wash Tile Surfaces, Surface Preparation	0.40	
			For Up To 100, Add	0.25	
			For >100 To 250, Add	0.12	
			For >250 To 500, Add	0.05	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.04	
			For >15,000 To 30,000, Deduct	-0.06	
			For >30,000, Deduct	-0.08	
09 01 90 52-0031			Wood Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0032	SF		Trisodium Phosphate (TSP), Clean Wood Surfaces, Surface Preparation	0.58	
			For Up To 100, Add	0.42	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.09	
			For >30,000, Deduct	-0.12	
09 01 90 52-0033	SF		Chemical Clean, Brush And Wash Wood Surfaces, Surface Preparation	0.82	
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	

09 Finishes**09 01 Maintenance of Finishes****09 01 90 Maintenance of Painting and Coating**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0034	SF		Hand Scrape Wood Surfaces, Surface Preparation.....	0.97	
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.10	
			For >15,000 To 30,000, Deduct	-0.15	
			For >30,000, Deduct	-0.19	
09 01 90 52-0035	SF		Steam Clean Wood Surfaces, Surface Preparation	0.88	
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.13	
			For >30,000, Deduct	-0.17	
09 01 90 52-0036	SF		2,000 To 5,000 PSI, Pressure Wash Wood Surfaces, Surface Preparation	0.60	
			For Up To 100, Add	0.37	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.09	
			For >30,000, Deduct	-0.11	
09 01 90 52-0037	SF		Sanding Wood Paneling, Boards, Doors Or Other Wood Surfaces, Surface Preparation	1.14	
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.11	
			For >15,000 To 30,000, Deduct	-0.17	
			For >30,000, Deduct	-0.22	
09 01 90 52-0038	SF		Sanding Wood Trim Surfaces, Surface Preparation	1.54	
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 15,000, Deduct	-0.15	
			For >15,000 To 30,000, Deduct	-0.23	
			For >30,000, Deduct	-0.30	
09 01 90 52-0039	SF		Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening	1.89	
			For Up To 100, Add	1.34	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 15,000, Deduct	-0.19	
			For >15,000 To 30,000, Deduct	-0.28	
			For >30,000, Deduct	-0.37	
09 01 90 52-0040	SF		Prime Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation	1.00	
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.15	
			For >30,000, Deduct	-0.19	
09 01 90 52-0041	SF		Paint Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation	1.17	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.15	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.11	
			For >15,000 To 30,000, Deduct	-0.17	
			For >30,000, Deduct	-0.23	
09 01 90 52-0042			Vinyl Siding Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0043	SF		Trisodium Phosphate (TSP), Clean, Vinyl Siding Surfaces, Surface Preparation	0.55	
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.11	
09 01 90 52-0044	SF		Hand Wash, Vinyl Siding Surfaces, Surface Preparation	0.87	
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.12	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.13	
			For >30,000, Deduct	-0.17	



		Finishes	09
		Maintenance of Finishes	09 01
		Maintenance of Painting and Coating	09 01 90

2

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0045	SF		2,000 To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.51	
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.10	
09 01 90 52-0046	SF		Steam Clean, Vinyl Siding Surfaces, Surface Preparation	0.93	
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.13	
			For >30,000, Deduct	-0.18	
09 01 90 52-0047			Plaster/Stucco Surfaces, Surface Preparation (09 01 90 52-0001)		
			Note: Based on total project quantity.		
09 01 90 52-0048	SF		Trisodium Phosphate (TSP), Clean Plaster/Stucco Surfaces, Surface Preparation	0.63	
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.09	
			For >30,000, Deduct	-0.13	
09 01 90 52-0049	SF		2,000 To 5,000 PSI Pressure Wash Plaster/Stucco Surfaces, Surface Preparation.....	0.65	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.06	
			For >15,000 To 30,000, Deduct	-0.09	
			For >30,000, Deduct	-0.12	
09 01 90 52-0050			Prep Work (09 01 90 52-0001)		
09 01 90 52-0051	SF		Citrus Strip, Single Applications.....	1.49	
			Note: For removal of up to 40 mils each application (average 5 layers at 8 mils per layer) dried latex and oil-based paint, varnish, lacquer, polyurethane and shellac from wood, metal, and masonry surfaces. Multiple applications may be necessary, refer to manufacturer recommendations		
09 01 90 91			Paint Restoration (09 01 90)		
09 01 90 91-0001			Paint Removal, Strip To Bare Wood (09 01 90 91)		
09 01 90 91-0002	SF		Flat Surfaces, Paint Removal, Strip To Bare Wood.....	10.07	
09 01 90 91-0003	SF		Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood.....	10.74	
09 90			Painting and Coating (09)		
			Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.		
09 91			Painting (09 90)		
09 91 13			Exterior Painting (09 91)		
			Note: Acrylic latex paint unless otherwise stated. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.		
09 91 13 00-0001			Paint Exterior Walls/Siding (09 91 13)		
09 91 13 00-0002			Paint Exterior Brick Walls (09 91 13 00-0001)		
09 91 13 00-0003	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Brick Walls.....	0.31	
			For Oil Based Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.04	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.06	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.10	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.14	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.20	
			For >100 To 250, Add	0.09	
			For >250 To 500, Add	0.04	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 20,000, Deduct	-0.05	
			For >20,000, Deduct	-0.06	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0004	SF	1	Coat Filler, Brush Work, Paint Exterior Brick Walls.....	1.33	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0005	SF	1	Coat Paint, Brush Work, Paint Exterior Brick Walls.....	1.87	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.38	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.61	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.84	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.19	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.37	
09 91 13 00-0006	SF	2	Coats Paint, Brush Work, Paint Exterior Brick Walls.....	2.74	
			For Oil Based Paint, Add	0.17	
			For Work >15' To 20' Above Floor, Add	0.31	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.51	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.82	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.64	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.34	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.27	
			For >10,000 To 20,000, Deduct	-0.41	
			For >20,000, Deduct	-0.55	
09 91 13 00-0007	SF	1	Coat Filler, Brush/Roller Work, Paint Exterior Brick Walls.....	0.91	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0008	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Brick Walls.....	1.49	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.42	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.85	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.30	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0009 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Brick Walls.....	2.23	
For Oil Based Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.57	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.79	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.19	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.45	
09 91 13 00-0010 SF 1 Coat Filler, Sprayed, Paint Exterior Brick Walls.....	0.84	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.27	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0011 SF 1 Coat Paint, Sprayed, Paint Exterior Brick Walls.....	0.88	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.15	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.36	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 13 00-0012 SF 2 Coats Paint, Sprayed, Paint Exterior Brick Walls.....	1.84	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.40	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.54	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.87	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	

09 91 13 00-0013 Paint Exterior Concrete Walls (09 91 13 00-0001)

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0014	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Walls	0.19	
			For Oil Based Paint, Add	0.01	
			For Epoxy Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.04	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.06	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.09	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.12	
			For >100 To 250, Add	0.06	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
09 91 13 00-0015	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	1.12	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 13 00-0016	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	1.21	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.56	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.79	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0017	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Walls	2.28	
			For Oil Based Paint, Add	0.13	
			For Epoxy Paint, Add	0.23	
			For Work >15' To 20' Above Floor, Add	0.28	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.47	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.75	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.03	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.47	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.34	
			For >20,000, Deduct	-0.46	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0018	SF	1	Coat Filler, Brush/Roller Work, Paint Exterior Concrete Walls.....	0.92	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.27	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.37	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0019	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Concrete Walls	1.02	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0020	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Concrete Walls.....	1.74	
			For Oil Based Paint, Add	0.11	
			For Epoxy Paint, Add	0.21	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.34	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.54	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.74	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.07	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.35	
09 91 13 00-0021	SF	1	Coat Filler, Sprayed, Paint Exterior Concrete Walls	0.75	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.11	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.18	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.25	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0022	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Walls	0.68	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.11	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.17	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.24	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0023	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Walls	1.21	
			For Oil Based Paint, Add	0.09	
			For Epoxy Paint, Add	0.21	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0024			Paint Exterior Concrete Block Walls (09 91 13 00-0001)		
09 91 13 00-0025			Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0024)		
09 91 13 00-0026	LF		1 Coat Epoxy Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls.....	0.28	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.08	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.17	
			For >100 To 250, Add	0.08	
			For >250 To 500, Add	0.04	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 20,000, Deduct	-0.04	
			For >20,000, Deduct	-0.06	
09 91 13 00-0027	SF		1 Coat Epoxy Filler, Brush Work, Paint Exterior Concrete Block Walls.....	1.59	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.46	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.63	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.92	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0028	SF 1 Coat Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls	1.81	
	For Work >15' To 20' Above Floor, Add	0.20	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.34	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.54	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.75	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.09	
	For >100 To 250, Add	0.52	
	For >250 To 500, Add	0.23	
	For >2,500 To 5,000, Deduct	-0.09	
	For >5,000 To 10,000, Deduct	-0.18	
	For >10,000 To 20,000, Deduct	-0.27	
	For >20,000, Deduct	-0.36	
09 91 13 00-0029	SF 2 Coats Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls	3.19	
	For Work >15' To 20' Above Floor, Add	0.34	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.57	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.92	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.26	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.85	
	For >100 To 250, Add	0.89	
	For >250 To 500, Add	0.39	
	For >2,500 To 5,000, Deduct	-0.16	
	For >5,000 To 10,000, Deduct	-0.32	
	For >10,000 To 20,000, Deduct	-0.48	
	For >20,000, Deduct	-0.64	
09 91 13 00-0030	SF 1 Coat Epoxy Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.31	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.22	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.34	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.47	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.71	
	For >100 To 250, Add	0.35	
	For >250 To 500, Add	0.15	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.20	
	For >20,000, Deduct	-0.26	
09 91 13 00-0031	SF 1 Coat Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.45	
	For Work >15' To 20' Above Floor, Add	0.15	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.25	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.40	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.55	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.82	
	For >100 To 250, Add	0.40	
	For >250 To 500, Add	0.17	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.15	
	For >10,000 To 20,000, Deduct	-0.22	
	For >20,000, Deduct	-0.29	
09 91 13 00-0032	SF 2 Coats Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	2.60	
	For Work >15' To 20' Above Floor, Add	0.26	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.43	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.68	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.94	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.41	
	For >100 To 250, Add	0.69	
	For >250 To 500, Add	0.30	
	For >2,500 To 5,000, Deduct	-0.13	
	For >5,000 To 10,000, Deduct	-0.26	
	For >10,000 To 20,000, Deduct	-0.39	
	For >20,000, Deduct	-0.52	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0033	SF		1 Coat Epoxy Filler, Sprayed, Paint Exterior Concrete Block Walls.....	1.03	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.19	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.26	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.21	
09 91 13 00-0034	SF		1 Coat Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls	1.13	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.23	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.52	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0035	SF		2 Coats Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls.....	2.21	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.42	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.58	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.97	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	
09 91 13 00-0036			Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0024).....	0.28	
09 91 13 00-0037	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls.....	0.28	
			For Oil Based Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.08	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.17	
			For >100 To 250, Add	0.08	
			For >250 To 500, Add	0.04	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 20,000, Deduct	-0.04	
			For >20,000, Deduct	-0.06	
09 91 13 00-0038	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Block Walls	1.44	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.46	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.63	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.90	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0039	SF	1	Coat Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.71	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.33	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.72	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.34	
09 91 13 00-0040	SF	2	Coats Paint, Brush Work, Paint Exterior Concrete Block Walls.....	3.14	
			For Oil Based Paint, Add	0.20	
			For Work >15' To 20' Above Floor, Add	0.35	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.59	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.94	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.88	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.39	
			For >2,500 To 5,000, Deduct	-0.16	
			For >5,000 To 10,000, Deduct	-0.31	
			For >10,000 To 20,000, Deduct	-0.47	
			For >20,000, Deduct	-0.63	
09 91 13 00-0041	SF	1	Coat Texture Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.90	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.58	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.80	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.38	
09 91 13 00-0042	SF	1	Coat Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.14	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0043	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.47	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.43	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.59	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0044 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	2.54	
For Oil Based Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.26	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.44	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.70	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.96	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.43	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.51	
09 91 13 00-0045 SF 1 Coat Texture Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.65	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.66	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.97	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0046 SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Block Walls.....	1.05	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0047 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.12	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0048 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.69	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.60	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.91	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	



Finishes		09
Painting and Coating		09 90
Painting		09 91

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0049	SF	1	Coat Texture Paint, Sprayed, Paint Exterior Concrete Block Walls	1.43	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.29	
09 91 13 00-0050			Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0051			Paint Exterior Galvanized Walls (09 91 13 00-0050)		
			Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0052	SF	1	Coat Primer, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	1.43	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.29	
09 91 13 00-0053	SF	1	Coat Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces	1.57	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.47	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.64	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0054	SF	2	Coats Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces	2.85	
			For Work >15' To 20' Above Floor, Add	0.31	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.51	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.82	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.65	
			For >100 To 250, Add	0.80	
			For >250 To 500, Add	0.35	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.29	
			For >10,000 To 20,000, Deduct	-0.43	
			For >20,000, Deduct	-0.57	
09 91 13 00-0055	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Walls.....	1.06	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.29	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.40	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0056	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	1.22	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0057	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	2.30	
			For Work >15' To 20' Above Floor, Add	0.24	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.40	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.64	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.89	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.46	
09 91 13 00-0058	SF	1	Coat Primer, Sprayed, Paint Exterior Galvanized Walls	0.87	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.10	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.16	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.23	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0059	SF	1	Coat Paint, Sprayed, Paint Exterior Galvanized Walls	1.11	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 13 00-0060	SF	2	Coats Paint, Sprayed, Paint Exterior Galvanized Walls	1.89	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.38	
09 91 13 00-0061			Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0050)		
			Note: Alkyd enamel paint.		



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0062	SF	1	Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.43	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.29	
09 91 13 00-0063	SF	1	Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces	1.57	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.47	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.64	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0064	SF	2	Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces	2.84	
			For Work >15' To 20' Above Floor, Add	0.31	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.51	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.82	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.65	
			For >100 To 250, Add	0.79	
			For >250 To 500, Add	0.35	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.28	
			For >10,000 To 20,000, Deduct	-0.43	
			For >20,000, Deduct	-0.57	
09 91 13 00-0065	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls.....	1.19	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.29	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.40	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0066	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls	1.33	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0067	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls	2.53	
			For Work >15' To 20' Above Floor, Add	0.24	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.40	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.64	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.89	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.35	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.38	
			For >20,000, Deduct	-0.51	
09 91 13 00-0068	SF		1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	0.95	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.20	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.27	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0069	SF		1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	1.11	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 13 00-0070	SF		2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	1.89	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.38	
09 91 13 00-0071			Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0050)		
09 91 13 00-0072	LF		1 Coat Primer, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	16.82	
			For Work >15' To 20' Above Floor, Add	2.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	3.63	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	5.80	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	7.98	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	11.23	
			For >100 To 250, Add	5.31	
			For >250 To 500, Add	2.29	
			For >2,500 To 5,000, Deduct	-0.84	
			For >5,000 To 10,000, Deduct	-1.68	
			For >10,000 To 20,000, Deduct	-2.52	
			For >20,000, Deduct	-3.36	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0073	LF	1	Coat Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	18.73	
			For Work >15' To 20' Above Floor, Add	2.42	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	4.03	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	6.45	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	8.87	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	12.49	
			For >100 To 250, Add	5.91	
			For >250 To 500, Add	2.55	
			For >2,500 To 5,000, Deduct	-0.94	
			For >5,000 To 10,000, Deduct	-1.87	
			For >10,000 To 20,000, Deduct	-2.61	
			For >20,000, Deduct	-3.75	
09 91 13 00-0074	LF	2	Coats Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	34.94	
			For Work >15' To 20' Above Floor, Add	4.55	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	7.58	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	12.13	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	16.68	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	23.43	
			For >100 To 250, Add	11.07	
			For >250 To 500, Add	4.78	
			For >2,500 To 5,000, Deduct	-1.75	
			For >5,000 To 10,000, Deduct	-3.49	
			For >10,000 To 20,000, Deduct	-5.24	
			For >20,000, Deduct	-6.99	
09 91 13 00-0075			Paint Exterior Corrugated Metal Walls (09 91 13 00-0050).....	1.07	
09 91 13 00-0076	SF	1	Coat Primer, Sprayed, Paint Exterior Corrugated Metal Walls.....	1.07	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.30	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0077	SF	1	Coat Paint, Sprayed, Paint Exterior Corrugated Metal Walls.....	1.39	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.47	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0078	SF	2	Coats Paint, Sprayed, Paint Exterior Corrugated Metal Walls.....	2.35	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.32	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.71	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.47	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0079			Paint Exterior Stucco Walls (09 91 13 00-0001)		
09 91 13 00-0080	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Stucco Wall Surfaces.....	0.35	
			For Oil Based Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.04	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.07	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.12	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.16	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.23	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.05	
			For >20,000, Deduct	-0.07	
09 91 13 00-0081	SF		1 Coat Primer, Brush Work, Paint Exterior Stucco Wall Surfaces.....	1.91	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.24	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.40	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.64	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.89	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.38	
09 91 13 00-0082	SF		1 Coat Paint, Brush Work, Paint Exterior Stucco Wall Surfaces.....	2.10	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.26	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.44	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.70	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.96	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.37	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.42	
09 91 13 00-0083	SF		2 Coats Paint, Brush Work, Paint Exterior Stucco Wall Surfaces	3.91	
			For Oil Based Paint, Add	0.23	
			For Work >15' To 20' Above Floor, Add	0.48	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.80	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.77	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.51	
			For >100 To 250, Add	1.19	
			For >250 To 500, Add	0.52	
			For >2,500 To 5,000, Deduct	-0.20	
			For >5,000 To 10,000, Deduct	-0.39	
			For >10,000 To 20,000, Deduct	-0.59	
			For >20,000, Deduct	-0.78	
09 91 13 00-0084	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.46	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.46	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.64	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.92	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0085	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Stucco Walls	1.65	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.33	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.72	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0086	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Stucco Walls	3.04	
			For Oil Based Paint, Add	0.19	
			For Work >15' To 20' Above Floor, Add	0.35	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.59	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.94	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.86	
			For >100 To 250, Add	0.89	
			For >250 To 500, Add	0.39	
			For >2,500 To 5,000, Deduct	-0.15	
			For >5,000 To 10,000, Deduct	-0.30	
			For >10,000 To 20,000, Deduct	-0.46	
			For >20,000, Deduct	-0.61	
09 91 13 00-0087	SF	1	Coat Primer, Sprayed, Paint Exterior Stucco Walls	1.04	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.38	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0088	SF	1	Coat Paint, Sprayed, Paint Exterior Stucco Walls	1.26	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0089	SF	2	Coats Paint, Sprayed, Paint Exterior Stucco Walls	2.43	
			For Oil Based Paint, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.24	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.41	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.65	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.90	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.34	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000, Deduct	-0.49	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0090			Paint Exterior Wood Siding (09 91 13 00-0001)		
09 91 13 00-0091			Paint Exterior Smooth Wood Siding (09 91 13 00-0090)		
			Note: Includes tongue and groove, beveled, drop or board and batten siding.		
09 91 13 00-0092	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Siding.....	0.28	
			For Oil Based Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.06	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.09	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.13	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.18	
			For >100 To 250, Add	0.09	
			For >250 To 500, Add	0.04	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 20,000, Deduct	-0.04	
			For >20,000, Deduct	-0.06	
09 91 13 00-0093	SF		1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Siding	1.62	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.32	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.51	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.70	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.01	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	
09 91 13 00-0094	SF		1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Siding	1.70	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.35	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.56	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.77	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.34	
09 91 13 00-0095	SF		2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Siding	3.05	
			For Oil Based Paint, Add	0.18	
			For Work >15' To 20' Above Floor, Add	0.37	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.61	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.98	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.35	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.93	
			For >100 To 250, Add	0.92	
			For >250 To 500, Add	0.40	
			For >2,500 To 5,000, Deduct	-0.15	
			For >5,000 To 10,000, Deduct	-0.31	
			For >10,000 To 20,000, Deduct	-0.46	
			For >20,000, Deduct	-0.61	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0096	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.28	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 91 13 00-0097	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.40	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.42	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.58	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.84	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0098	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	2.63	
			For Oil Based Paint, Add	0.17	
			For Work >15' To 20' Above Floor, Add	0.29	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.48	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.77	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.06	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.55	
			For >100 To 250, Add	0.75	
			For >250 To 500, Add	0.32	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.26	
			For >10,000 To 20,000, Deduct	-0.39	
			For >20,000, Deduct	-0.53	
09 91 13 00-0099	SF	1	Coat Primer, Sprayed, Paint Exterior Smooth Wood Siding.....	0.99	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0100	SF	1	Coat Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.18	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.43	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0101	SF		2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.91	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.46	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.64	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.98	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.38	
09 91 13 00-0102			Paint Exterior Rough Wood Siding (09 91 13 00-0090)		
			Note: Includes shingles, shakes or rough sawn siding.		
09 91 13 00-0103	SF		1 Coat Primer, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding	2.16	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.26	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.44	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.70	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.97	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.38	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.43	
09 91 13 00-0104	SF		1 Coat Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding	2.14	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.28	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.46	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.74	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.01	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.43	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.29	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.43	
09 91 13 00-0105	SF		2 Coats Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding	3.95	
			For Oil Based Paint, Add	0.23	
			For Work >15' To 20' Above Floor, Add	0.50	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.84	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.84	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.60	
			For >100 To 250, Add	1.23	
			For >250 To 500, Add	0.53	
			For >2,500 To 5,000, Deduct	-0.20	
			For >5,000 To 10,000, Deduct	-0.40	
			For >10,000 To 20,000, Deduct	-0.59	
			For >20,000, Deduct	-0.79	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0106	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Shingles, Shakes Or Rough Sawn Wood Siding.....	1.96	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.33	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.72	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.08	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.39	
09 91 13 00-0107	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Shingles, Shakes Or Rough Sawn Wood Siding	2.10	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.58	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.80	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.19	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.42	
09 91 13 00-0108	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Shingles, Shakes Or Rough Sawn Wood Siding.....	3.92	
			For Oil Based Paint, Add	0.26	
			For Work >15' To 20' Above Floor, Add	0.39	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.66	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.05	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.44	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.16	
			For >100 To 250, Add	1.05	
			For >250 To 500, Add	0.46	
			For >2,500 To 5,000, Deduct	-0.20	
			For >5,000 To 10,000, Deduct	-0.39	
			For >10,000 To 20,000, Deduct	-0.59	
			For >20,000, Deduct	-0.78	
09 91 13 00-0109	SF	1	Coat Primer, Sprayed, Paint Exterior Shingles, Shakes Or Rough Sawn Wood Siding.....	1.36	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0110	SF	1	Coat Paint, Sprayed, Paint Exterior Shingles, Shakes Or Rough Sawn Wood Siding.....	1.52	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.30	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0111	SF		2 Coats Paint, Sprayed, Paint Exterior Shingles, Shakes Or Rough Sawn Wood Siding	2.88	
			For Oil Based Paint, Add	0.20	
			For Work >15' To 20' Above Floor, Add	0.27	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.45	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.71	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.98	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.50	
			For >100 To 250, Add	0.73	
			For >250 To 500, Add	0.32	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.29	
			For >10,000 To 20,000, Deduct	-0.43	
			For >20,000, Deduct	-0.58	
09 91 13 00-0112			Paint Exterior Vinyl Siding (09 91 13 00-0001)		
09 91 13 00-0113	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Vinyl Siding	0.22	
			For Oil Based Paint, Add	0.01	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.04	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.06	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.09	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.13	
			For >100 To 250, Add	0.06	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
09 91 13 00-0114	SF		1 Coat Primer, Brush Work, Paint Exterior Vinyl Siding	1.22	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0115	SF		1 Coat Paint, Brush Work, Paint Exterior Vinyl Siding	1.35	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.55	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0116	SF		2 Coats Paint, Brush Work, Paint Exterior Vinyl Siding	2.50	
			For Oil Based Paint, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.26	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.44	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.70	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.96	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.43	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.38	
			For >20,000, Deduct	-0.50	
09 91 13 00-0117	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Vinyl Siding.....	1.13	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.29	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.40	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0118	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Vinyl Siding	1.13	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.29	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.40	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0119	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Vinyl Siding	2.11	
			For Oil Based Paint, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.33	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.72	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.42	
09 91 13 00-0120	SF		1 Coat Primer, Sprayed, Paint Exterior Vinyl Siding	0.99	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.20	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.27	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0121	SF		1 Coat Paint, Sprayed, Paint Exterior Vinyl Siding.....	1.14	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.20	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.27	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0122	SF		2 Coats Paint, Sprayed, Paint Exterior Vinyl Siding.....	2.22	
			For Oil Based Paint, Add	0.17	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.92	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	
09 91 13 00-0123			Paint Exterior Ceilings (09 91 13)		
09 91 13 00-0124			Paint Exterior Concrete Ceilings (09 91 13 00-0123)		
09 91 13 00-0125	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Ceiling.....	0.22	
			For Oil Based Paint, Add	0.01	
			For Epoxy Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.08	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.10	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.15	
			For >100 To 250, Add	0.07	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
09 91 13 00-0126	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Ceiling.....	1.27	
			For Oil Based Paint, Add	0.08	
			For Epoxy Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.56	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0127	SF		1 Coat Paint, Brush Work, Paint Exterior Concrete Ceiling	1.37	
			For Oil Based Paint, Add	0.08	
			For Epoxy Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.47	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.64	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.27	
09 91 13 00-0128	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Ceiling.....	2.44	
			For Oil Based Paint, Add	0.14	
			For Epoxy Paint, Add	0.24	
			For Work >15' To 20' Above Floor, Add	0.31	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.51	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.82	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.59	
			For >100 To 250, Add	0.75	
			For >250 To 500, Add	0.33	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000, Deduct	-0.49	
09 91 13 00-0129	SF		1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	0.98	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.29	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.40	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0130	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling	1.07	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0131	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling	2.01	
			For Oil Based Paint, Add	0.12	
			For Epoxy Paint, Add	0.22	
			For Work >15' To 20' Above Floor, Add	0.24	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.40	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.64	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.89	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.27	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91 13 00-0132	SF		1 Coat Filler, Sprayed, Paint Exterior Concrete Ceiling	0.79	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.20	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.27	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0133	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Ceiling	0.90	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0134	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Ceiling	1.47	
			For Oil Based Paint, Add	0.10	
			For Epoxy Paint, Add	0.22	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	

09 91 13 00-0135 Paint Exterior Wood Ceilings (09 91 13 00-0123)

09 91 13 00-0136 Paint Exterior Smooth Wood Ceilings (09 91 13 00-0135)



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0137	LF	1	Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Ceiling.....	0.26	
			For Oil Based Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.08	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.17	
			For >100 To 250, Add	0.08	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 20,000, Deduct	-0.04	
			For >20,000, Deduct	-0.05	
09 91 13 00-0138	SF	1	Coat Primer, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.57	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.31	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.49	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.67	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.97	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0139	SF	1	Coat Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.61	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.33	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.72	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	
09 91 13 00-0140	SF	2	Coats Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	2.94	
			For Oil Based Paint, Add	0.18	
			For Work >15' To 20' Above Floor, Add	0.35	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.59	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.94	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.85	
			For >100 To 250, Add	0.88	
			For >250 To 500, Add	0.38	
			For >2,500 To 5,000, Deduct	-0.15	
			For >5,000 To 10,000, Deduct	-0.29	
			For >10,000 To 20,000, Deduct	-0.44	
			For >20,000, Deduct	-0.59	
09 91 13 00-0141	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling.....	1.27	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0142	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	1.38	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0143	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	2.45	
			For Oil Based Paint, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.26	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.44	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.70	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.96	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.42	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000, Deduct	-0.49	
09 91 13 00-0144	SF		1 Coat Primer, Sprayed, Paint Exterior Smooth Wood Ceiling	0.95	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0145	SF		1 Coat Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	0.95	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0146	SF		2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	1.73	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.28	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.45	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.62	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.35	



Finishes		09	2
Painting and Coating		09 90	
Painting		09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0147			Paint Exterior Rough Wood Ceilings (09 91 13 00-0135)		
09 91 13 00-0148	SF		1 Coat Primer, Brush Work, Paint Exterior Wood Rough Ceiling.....	2.34	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.28	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.46	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.74	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.01	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.46	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.47	
09 91 13 00-0149	SF		1 Coat Paint, Brush Work, Paint Exterior Wood Rough Ceiling	2.35	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.31	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.51	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.82	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.13	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.58	
			For >100 To 250, Add	0.75	
			For >250 To 500, Add	0.32	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.47	
09 91 13 00-0150	SF		2 Coats Paint, Brush Work, Paint Exterior Wood Rough Ceiling	4.11	
			For Oil Based Paint, Add	0.24	
			For Work >15' To 20' Above Floor, Add	0.53	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.88	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.93	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.72	
			For >100 To 250, Add	1.29	
			For >250 To 500, Add	0.56	
			For >2,500 To 5,000, Deduct	-0.21	
			For >5,000 To 10,000, Deduct	-0.41	
			For >10,000 To 20,000, Deduct	-0.62	
			For >20,000, Deduct	-0.82	
09 91 13 00-0151	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Ceiling	2.10	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.58	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.80	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.19	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.42	
09 91 13 00-0152	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling	2.26	
			For Oil Based Paint, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.24	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.40	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.64	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.89	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.34	
			For >20,000, Deduct	-0.45	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0153 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling.....	4.06	
For Oil Based Paint, Add	0.27	
For Work >15' To 20' Above Floor, Add	0.41	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.69	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.10	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.27	
For >100 To 250, Add	1.10	
For >250 To 500, Add	0.48	
For >2,500 To 5,000, Deduct	-0.20	
For >5,000 To 10,000, Deduct	-0.41	
For >10,000 To 20,000, Deduct	-0.61	
For >20,000, Deduct	-0.81	
09 91 13 00-0154 SF 1 Coat Primer, Sprayed, Paint Exterior Rough Wood Ceiling.....	1.51	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 13 00-0155 SF 1 Coat Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	1.68	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.45	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.62	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.93	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	
09 91 13 00-0156 SF 2 Coats Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	3.04	
For Oil Based Paint, Add	0.21	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.49	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.78	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.07	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.62	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.35	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.30	
For >10,000 To 20,000, Deduct	-0.46	
For >20,000, Deduct	-0.61	
09 91 13 00-0157 Paint Exterior Metal Ceilings (09 91 13 00-0123)		
09 91 13 00-0158 Paint Exterior Galvanized Ceilings (09 91 13 00-0157)		
Note: Linseed oil or acrylic latex paint.		



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0159	SF		1 Coat Primer, Brush Work, Paint Exterior Galvanized Ceiling.....	1.57	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.47	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.64	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0160	SF		1 Coat Paint, Brush Work, Paint Exterior Galvanized Ceiling	1.71	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.33	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.72	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.34	
09 91 13 00-0161	SF		2 Coats Paint, Brush Work, Paint Exterior Galvanized Ceiling	3.14	
			For Work >15' To 20' Above Floor, Add	0.35	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.59	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.94	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.88	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.39	
			For >2,500 To 5,000, Deduct	-0.16	
			For >5,000 To 10,000, Deduct	-0.31	
			For >10,000 To 20,000, Deduct	-0.47	
			For >20,000, Deduct	-0.63	
09 91 13 00-0162	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Ceiling	1.20	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0163	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling	1.36	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0164	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	2.41	
			For Work >15' To 20' Above Floor, Add	0.26	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.44	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.70	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.96	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000, Deduct	-0.48	
09 91 13 00-0165	SF		1 Coat Primer, Sprayed, Paint Exterior Galvanized Ceiling.....	1.11	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 13 00-0166	SF		1 Coat Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	1.26	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.44	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.67	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0167	SF		2 Coats Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	2.05	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.28	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.45	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.62	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000, Deduct	-0.41	
09 91 13 00-0168			Paint Exterior Aluminum And Aluminum Alloy Ceilings (09 91 13 00-0157)		
			Note: Alkyd enamel paint.		
09 91 13 00-0169	SF		1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.57	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.47	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.64	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
09 91 13 00-0170	SF 1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		1.71	
	For Work >15' To 20' Above Floor, Add		0.20	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.33	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.52	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.72	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		1.04	
	For >100 To 250, Add		0.50	
	For >250 To 500, Add		0.22	
	For >2,500 To 5,000, Deduct		-0.09	
	For >5,000 To 10,000, Deduct		-0.17	
	For >10,000 To 20,000, Deduct		-0.26	
	For >20,000, Deduct		-0.34	
09 91 13 00-0171	SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		3.14	
	For Work >15' To 20' Above Floor, Add		0.35	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.59	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.94	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		1.29	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		1.88	
	For >100 To 250, Add		0.90	
	For >250 To 500, Add		0.39	
	For >2,500 To 5,000, Deduct		-0.16	
	For >5,000 To 10,000, Deduct		-0.31	
	For >10,000 To 20,000, Deduct		-0.47	
	For >20,000, Deduct		-0.63	
09 91 13 00-0172	SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		1.33	
	For Work >15' To 20' Above Floor, Add		0.13	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.22	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.35	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.48	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.72	
	For >100 To 250, Add		0.35	
	For >250 To 500, Add		0.15	
	For >2,500 To 5,000, Deduct		-0.07	
	For >5,000 To 10,000, Deduct		-0.13	
	For >10,000 To 20,000, Deduct		-0.20	
	For >20,000, Deduct		-0.27	
09 91 13 00-0173	SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		1.49	
	For Work >15' To 20' Above Floor, Add		0.15	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.26	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.41	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.57	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.84	
	For >100 To 250, Add		0.41	
	For >250 To 500, Add		0.18	
	For >2,500 To 5,000, Deduct		-0.07	
	For >5,000 To 10,000, Deduct		-0.15	
	For >10,000 To 20,000, Deduct		-0.22	
	For >20,000, Deduct		-0.30	
09 91 13 00-0174	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		2.67	
	For Work >15' To 20' Above Floor, Add		0.26	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.44	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.70	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.96	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		1.45	
	For >100 To 250, Add		0.70	
	For >250 To 500, Add		0.31	
	For >2,500 To 5,000, Deduct		-0.13	
	For >5,000 To 10,000, Deduct		-0.27	
	For >10,000 To 20,000, Deduct		-0.40	
	For >20,000, Deduct		-0.53	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
09 91 13 00-0175	SF	1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling	1.11		
		For Work >15' To 20' Above Floor, Add		0.10	
		Note: Applied only to work area above 15' to 20'.			
		For Work >20' To 30' Above Floor, Add		0.16	
		Note: Applied only to work area above 20'.			
		For Work >30' To 40' Above Floor, Add		0.26	
		Note: Applied only to work area above 30' to 40'.			
		For Work >40' Above Floor, Add		0.36	
		Note: Applied only to work area above 40'.			
		For Up To 100, Add		0.56	
		For >100 To 250, Add		0.27	
		For >250 To 500, Add		0.12	
		For >2,500 To 5,000, Deduct		-0.06	
		For >5,000 To 10,000, Deduct		-0.11	
		For >10,000 To 20,000, Deduct		-0.17	
		For >20,000, Deduct		-0.22	
09 91 13 00-0176	SF	1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.11		
		For Work >15' To 20' Above Floor, Add		0.10	
		Note: Applied only to work area above 15' to 20'.			
		For Work >20' To 30' Above Floor, Add		0.16	
		Note: Applied only to work area above 20'.			
		For Work >30' To 40' Above Floor, Add		0.26	
		Note: Applied only to work area above 30' to 40'.			
		For Work >40' Above Floor, Add		0.36	
		Note: Applied only to work area above 40'.			
		For Up To 100, Add		0.56	
		For >100 To 250, Add		0.27	
		For >250 To 500, Add		0.12	
		For >2,500 To 5,000, Deduct		-0.06	
		For >5,000 To 10,000, Deduct		-0.11	
		For >10,000 To 20,000, Deduct		-0.17	
		For >20,000, Deduct		-0.22	
09 91 13 00-0177	SF	2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	2.05		
		For Work >15' To 20' Above Floor, Add		0.17	
		Note: Applied only to work area above 15' to 20'.			
		For Work >20' To 30' Above Floor, Add		0.28	
		Note: Applied only to work area above 20'.			
		For Work >30' To 40' Above Floor, Add		0.45	
		Note: Applied only to work area above 30' to 40'.			
		For Work >40' Above Floor, Add		0.62	
		Note: Applied only to work area above 40'.			
		For Up To 100, Add		0.99	
		For >100 To 250, Add		0.49	
		For >250 To 500, Add		0.22	
		For >2,500 To 5,000, Deduct		-0.10	
		For >5,000 To 10,000, Deduct		-0.21	
		For >10,000 To 20,000, Deduct		-0.31	
		For >20,000, Deduct		-0.41	
09 91 13 00-0178		Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0157)	1.23		
09 91 13 00-0179	SF	1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Ceiling	1.23		
		For Work >15' To 20' Above Floor, Add		0.11	
		Note: Applied only to work area above 15' to 20'.			
		For Work >20' To 30' Above Floor, Add		0.18	
		Note: Applied only to work area above 20'.			
		For Work >30' To 40' Above Floor, Add		0.28	
		Note: Applied only to work area above 30' to 40'.			
		For Work >40' Above Floor, Add		0.39	
		Note: Applied only to work area above 40'.			
		For Up To 100, Add		0.60	
		For >100 To 250, Add		0.30	
		For >250 To 500, Add		0.13	
		For >2,500 To 5,000, Deduct		-0.06	
		For >5,000 To 10,000, Deduct		-0.12	
		For >10,000 To 20,000, Deduct		-0.18	
		For >20,000, Deduct		-0.25	
09 91 13 00-0180	SF	1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	1.39		
		For Work >15' To 20' Above Floor, Add		0.13	
		Note: Applied only to work area above 15' to 20'.			
		For Work >20' To 30' Above Floor, Add		0.22	
		Note: Applied only to work area above 20'.			
		For Work >30' To 40' Above Floor, Add		0.34	
		Note: Applied only to work area above 30' to 40'.			
		For Work >40' Above Floor, Add		0.47	
		Note: Applied only to work area above 40'.			
		For Up To 100, Add		0.72	
		For >100 To 250, Add		0.35	
		For >250 To 500, Add		0.16	
		For >2,500 To 5,000, Deduct		-0.07	
		For >5,000 To 10,000, Deduct		-0.14	
		For >10,000 To 20,000, Deduct		-0.21	
		For >20,000, Deduct		-0.28	



		Finishes	09	09
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0181	SF		2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	2.55	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.37	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.60	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.82	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.28	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.26	
			For >10,000 To 20,000, Deduct	-0.38	
			For >20,000, Deduct	-0.51	
09 91 13 00-0182			Paint Exterior Floors (09 91 13)		
09 91 13 00-0183			Paint Exterior Concrete Floors (09 91 13 00-0182)		
09 91 13 00-0184	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Floors And Decks.....	0.17	
			For Up To 100, Add	0.11	
			For >100 To 250, Add	0.05	
			For >250 To 500, Add	0.02	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.03	
09 91 13 00-0185	SF		1 Coat Primer, Brush Work, Paint Exterior Concrete Floors And Decks.....	0.98	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.12	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0186	SF		1 Coat Paint, Brush Work, Paint Exterior Concrete Floors And Decks	1.07	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.11	
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0187	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Floors And Decks	2.01	
			For Oil Based Paint, Add	0.12	
			For Epoxy Paint, Add	0.22	
			For Up To 100, Add	1.27	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91 13 00-0188	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	0.82	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.12	
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0189	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	0.93	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.11	
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0190 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	1.54	
For Oil Based Paint, Add	0.10	
For Epoxy Paint, Add	0.20	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0191 SF 1 Coat Primer, Sprayed, Paint Exterior Concrete Floors And Decks	0.63	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.12	
For Up To 100, Add	0.29	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
09 91 13 00-0192 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Floors And Decks	0.74	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0193 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Floors And Decks	1.31	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.22	
For Up To 100, Add	0.68	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0194 SF 1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	2.42	
For Up To 100, Add	0.80	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.48	
09 91 13 00-0195 SF 1 Coat Anti-Slip Paint, Single Component Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	5.66	
For Up To 100, Add	1.29	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.28	
For >5,000 To 10,000, Deduct	-0.57	
For >10,000 To 20,000, Deduct	-0.85	
For >20,000, Deduct	-1.13	
09 91 13 00-0196 SF 1 Coat Anti-Slip Paint, High Performance Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	7.02	
For Up To 100, Add	1.49	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.42	
For >2,500 To 5,000, Deduct	-0.35	
For >5,000 To 10,000, Deduct	-0.70	
For >10,000 To 20,000, Deduct	-1.05	
For >20,000, Deduct	-1.40	
09 91 13 00-0197 Paint Exterior Wood Floors (09 91 13 00-0182)	0.22	
09 91 13 00-0198 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Floors And Decks	0.22	
For Up To 100, Add	0.14	
For >100 To 250, Add	0.06	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 13 00-0199 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Floors And Decks	1.23	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0200	SF		1 Coat Paint, Brush Work, Paint Exterior Wood Floors And Decks	1.33	
			For Oil Based Paint, Add	0.08	
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0201	SF		2 Coats Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	2.49	
			For Oil Based Paint, Add	0.15	
			For Up To 100, Add	1.51	
			For >100 To 250, Add	0.72	
			For >250 To 500, Add	0.31	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000, Deduct	-0.50	
09 91 13 00-0202	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Floors And Decks.....	1.13	
			For Oil Based Paint, Add	0.08	
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0203	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	1.22	
			For Oil Based Paint, Add	0.08	
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0204	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	2.01	
			For Oil Based Paint, Add	0.14	
			For Up To 100, Add	1.09	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91 13 00-0205	SF		1 Coat Primer, Sprayed, Paint Exterior Wood Floors And Decks	0.79	
			For Oil Based Paint, Add	0.05	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0206	SF		1 Coat Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	0.95	
			For Oil Based Paint, Add	0.06	
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0207	SF		2 Coats Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	1.57	
			For Oil Based Paint, Add	0.11	
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0208	SF		1 Coat Non-Slip Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	2.56	
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.26	
			For >10,000 To 20,000, Deduct	-0.38	
			For >20,000, Deduct	-0.51	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0209 SF 1 Coat Non-Slip Epoxy Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	7.16	
For Up To 100, Add	1.60	
For >100 To 250, Add	0.93	
For >250 To 500, Add	0.45	
For >2,500 To 5,000, Deduct	-0.36	
For >5,000 To 10,000, Deduct	-0.72	
For >10,000 To 20,000, Deduct	-1.07	
For >20,000, Deduct	-1.43	
09 91 13 00-0210 Paint Metal Surfaces (09 91 13)		
Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0211 Paint Structural Steel (09 91 13 00-0210)		
09 91 13 00-0212 Paint Structural Steel, Brush Work (09 91 13 00-0211)		
09 91 13 00-0213 SF 1 Field Coat Primer, Brush/Roller Work, Paint Exterior Structural Steel	1.33	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For Epoxy Paint, Add	0.15	
09 91 13 00-0214 SF 1 Field Coat Paint, Brush/Roller Work, Paint Exterior Structural Steel	1.18	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For Epoxy Paint, Add	0.14	
09 91 13 00-0215 Paint Structural Steel, Spray Work (09 91 13 00-0211)		
09 91 13 00-0216 SF 1 Field Coat Primer, Sprayed, Paint Exterior Structural Steel.....	0.93	
For Electrostatic Painting, Add	0.13	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.13	
09 91 13 00-0217 SF 1 Field Coat Paint, Sprayed, Paint Exterior Structural Steel	0.77	
For Electrostatic Painting, Add	0.12	
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For Epoxy Paint, Add	0.12	
09 91 13 00-0218 Paint Metal Decking, Beams And Bar Joist (09 91 13 00-0211)		
09 91 13 00-0219 SF 1 Coat Primer, Sprayed, Paint Exposed Metal Decking.....	1.05	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.13	
09 91 13 00-0220 SF 1 Coat Paint, Sprayed, Paint Exposed Metal Decking	1.05	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.13	
09 91 13 00-0221 SF 2 Coats Paint, Sprayed, Paint Exposed Metal Decking	1.76	
For Up To 100, Add	1.00	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For Epoxy Paint, Add	0.25	
09 91 13 00-0222 SF 1 Coat Primer, Brush/Roller Work, Paint Metal Beams And Bar Joists.....	1.63	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For Epoxy Paint, Add	0.23	
09 91 13 00-0223 SF 1 Coat Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists	1.59	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For Epoxy Paint, Add	0.21	
09 91 13 00-0224 SF 2 Coats Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists	2.99	
For Up To 100, Add	1.70	
For >100 To 250, Add	0.82	
For >250 To 500, Add	0.36	
For Epoxy Paint, Add	0.42	
09 91 13 00-0225 SF 1 Coat Primer, Sprayed, Paint Metal Beams And Bar Joists	1.29	
For Up To 100, Add	0.73	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For Epoxy Paint, Add	0.18	
09 91 13 00-0226 SF 1 Coat Paint, Sprayed, Paint Metal Beams And Bar Joists.....	1.29	
For Up To 100, Add	0.73	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For Epoxy Paint, Add	0.18	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0227	SF		2 Coats Paint, Sprayed, Paint Metal Beams And Bar Joists.....	2.19	
			For Up To 100, Add	1.18	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
			For Epoxy Paint, Add	0.34	
09 91 13 00-0228 Paint Steel Pipes (09 91 13 00-0210)					
			Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0229	LF		1 Coat Primer, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.22	
			For Electrostatic Painting, Add	0.28	
			For Epoxy Paint, Add	0.23	
09 91 13 00-0230	LF		1 Coat Primer, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.48	
			For Electrostatic Painting, Add	0.32	
			For Epoxy Paint, Add	0.26	
09 91 13 00-0231	LF		1 Coat Primer, 4" Diameter, Paint Steel Pipes.....	2.81	
			For Electrostatic Painting, Add	0.36	
			For Epoxy Paint, Add	0.30	
09 91 13 00-0232	LF		1 Coat Primer, 6" To 8" Diameter, Paint Steel Pipes	3.51	
			For Electrostatic Painting, Add	0.45	
			For Epoxy Paint, Add	0.37	
09 91 13 00-0233	LF		1 Coat Primer, 10" To 12" Diameter, Paint Steel Pipes	4.44	
			For Electrostatic Painting, Add	0.56	
			For Epoxy Paint, Add	0.46	
09 91 13 00-0234	LF		1 Coat Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.22	
			For Electrostatic Painting, Add	0.28	
			For Epoxy Paint, Add	0.23	
09 91 13 00-0235	LF		1 Coat Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.48	
			For Electrostatic Painting, Add	0.32	
			For Epoxy Paint, Add	0.26	
09 91 13 00-0236	LF		1 Coat Paint, 4" Diameter, Paint Steel Pipes	2.81	
			For Electrostatic Painting, Add	0.36	
			For Epoxy Paint, Add	0.30	
09 91 13 00-0237	LF		1 Coat Paint, 6" To 8" Diameter, Paint Steel Pipes.....	3.51	
			For Electrostatic Painting, Add	0.45	
			For Epoxy Paint, Add	0.37	
09 91 13 00-0238	LF		1 Coat Paint, 10" To 12" Diameter, Paint Steel Pipes.....	4.44	
			For Electrostatic Painting, Add	0.56	
			For Epoxy Paint, Add	0.46	
09 91 13 00-0239	LF		2 Coats Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe	4.52	
			For Electrostatic Painting, Add	0.61	
			For Epoxy Paint, Add	0.54	
09 91 13 00-0240	LF		2 Coats Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	4.98	
			For Electrostatic Painting, Add	0.64	
			For Epoxy Paint, Add	0.53	
09 91 13 00-0241	LF		2 Coats Paint, 4" Diameter, Paint Steel Pipes	5.38	
			For Electrostatic Painting, Add	0.69	
			For Epoxy Paint, Add	0.58	
09 91 13 00-0242	LF		2 Coats Paint, 6" To 8" Diameter, Paint Steel Pipes.....	6.80	
			For Electrostatic Painting, Add	0.87	
			For Epoxy Paint, Add	0.72	
09 91 13 00-0243	LF		2 Coats Paint, 10" To 12" Diameter, Paint Steel Pipes.....	8.38	
			For Electrostatic Painting, Add	1.08	
			For Epoxy Paint, Add	0.91	
09 91 13 00-0244	EA		1 Coat Paint, Paint Exposed Single Or Double Gang Outlet Box	10.91	
			For Electrostatic Painting, Add	1.15	
			For Epoxy Paint, Add	0.67	
09 91 13 00-0245 Paint Metal Louvers (09 91 13 00-0210)					
09 91 13 00-0246	SF		1 Coat Primer, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	1.81	
			For Electrostatic Painting, Add	0.22	
09 91 13 00-0247	SF		1 Coat Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area	1.85	
			For Electrostatic Painting, Add	0.23	
09 91 13 00-0248	SF		2 Coats Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area	3.80	
			For Electrostatic Painting, Add	0.47	
09 91 13 00-0249 Paint Ladders (09 91 13 00-0210)					
09 91 13 00-0250	LF		1 Coat Alkyd Primer, Brush/Roller Work, Paint Ladders.....	4.98	
			For Epoxy Paint, Add	0.31	
09 91 13 00-0251	LF		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders	5.56	
			For Epoxy Paint, Add	0.34	
09 91 13 00-0252	LF		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders	10.96	
			For Epoxy Paint, Add	0.63	
09 91 13 00-0253 Paint Handrails (09 91 13 00-0210)					
09 91 13 00-0254	LF		1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	1.99	
			For Epoxy Paint, Add	0.16	
09 91 13 00-0255	LF		1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	2.20	
			For Epoxy Paint, Add	0.17	
09 91 13 00-0256	LF		2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	3.62	
			For Epoxy Paint, Add	0.24	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0257	LF	1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.66 0.46	
09 91 13 00-0258	LF	1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.99 0.48	
09 91 13 00-0259	LF	2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	6.83 0.76	
09 91 13 00-0260	LF	1 Coat Alkyd Primer, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.93 0.48	
09 91 13 00-0261	LF	1 Coat Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	4.29 0.49	
09 91 13 00-0262	LF	2 Coats Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	7.24 0.78	
09 91 13 00-0263	LF	1 Coat Alkyd Primer, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	2.19 0.25	
09 91 13 00-0264	LF	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	2.40 0.26	
09 91 13 00-0265	LF	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	4.39 0.50	
09 91 13 00-0266		Paint Grating (09 91 13 00-0210)		
09 91 13 00-0267	SF	1 Coat Primer, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	3.62 0.24	
09 91 13 00-0268	SF	1 Coat Paint, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	3.69 0.27	
09 91 13 00-0269	SF	2 Coats Paint, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	5.56 0.44	
09 91 13 00-0270		Equipment And Tanks (09 91 13 00-0210)		
09 91 13 00-0271		Paint Valves (09 91 13 00-0270) Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0272	EA	Prime And Paint 4" Diameter And Smaller Valve.....	37.84	
09 91 13 00-0273	EA	Prime And Paint 6" To 10" Diameter Valve.....	46.43	
09 91 13 00-0274	EA	Prime And Paint 12" To 18" Diameter Valve.....	61.05	
09 91 13 00-0275	EA	Prime And Paint 20" To 24" Diameter Valve.....	81.70	
09 91 13 00-0276	EA	Prime And Paint >24" To 36" Diameter Valve.....	110.95	
09 91 13 00-0277	EA	Prime And Paint >36" To 48" Diameter Valve.....	151.34	
09 91 13 00-0278		Paint Pumps And Motors (09 91 13 00-0270) Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0279	EA	Prime And Paint Pump Under 1 HP.....	116.08	
09 91 13 00-0280	EA	Prime And Paint Pump, 1 HP To 5 HP.....	153.01	
09 91 13 00-0281	EA	Prime And Paint Pump, >5 HP To 10 HP.....	183.92	
09 91 13 00-0282	EA	Prime And Paint Pump, >10 HP To 20 HP.....	206.24	
09 91 13 00-0283	EA	Prime And Paint Pump, >20 HP To 30 HP.....	240.61	
09 91 13 00-0284	EA	Prime And Paint Pump, >30 HP To 50 HP.....	274.98	
09 91 13 00-0285	EA	Prime And Paint Pump, >50 HP To 75 HP.....	303.33	
09 91 13 00-0286	EA	Prime And Paint Pump, >75 HP.....	343.74	
09 91 13 00-0287		Paint Storage Tanks (09 91 13 00-0270)		
09 91 13 00-0288	SF	1 Coat Primer, Roller, Paint Storage Tank, Exterior Surface.....	1.47	
09 91 13 00-0289	SF	1 Coat Paint, Roller, Paint Storage Tank, Exterior Surface.....	1.93	
09 91 13 00-0290	SF	2 Coats Paint, Roller, Paint Storage Tank, Exterior Surface.....	3.68	
09 91 13 00-0291	SF	1 Coat Primer, Roller, Paint Storage Tank, Interior Surface.....	1.97	
09 91 13 00-0292	SF	1 Coat Paint, Roller, Paint Storage Tank, Interior Surface.....	2.49	
09 91 13 00-0293	SF	2 Coats Paint, Roller, Paint Storage Tank, Interior Surface.....	4.78	
09 91 13 00-0294	SF	1 Coat Primer, Sprayed, Paint Storage Tank, Exterior Surface.....	1.48	
09 91 13 00-0295	SF	1 Coat Paint, Sprayed, Paint Storage Tank, Exterior Surface.....	1.82	
09 91 13 00-0296	SF	2 Coats Paint, Sprayed, Paint Storage Tank, Exterior Surface.....	3.54	
09 91 13 00-0297	SF	1 Coat Primer, Sprayed, Paint Storage Tank, Interior Surface.....	1.70	
09 91 13 00-0298	SF	1 Coat Paint, Sprayed, Paint Storage Tank, Interior Surface.....	2.23	
09 91 13 00-0299	SF	2 Coats Paint, Sprayed, Paint Storage Tank, Interior Surface.....	4.32	
09 91 13 00-0300		Other Site Work Painting (09 91 13)		
09 91 13 00-0301		Paint Fencing (09 91 13 00-0300) Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0302	SF	1 Coat Paint, Brush/Roller, Paint Existing Chain Link Fence..... <i>For Epoxy Paint, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	1.11 0.12 0.69 0.33 0.14	
09 91 13 00-0303	SF	2 Coats Paint, Brush/Roller, Paint Existing Chain Link Fence..... <i>For Epoxy Paint, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	2.09 0.24 1.29 0.62 0.27	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0304	SF	1	Coat Paint, Sprayed, Paint Existing Chain Link Fence	0.94	
			For Epoxy Paint, Add	0.13	
			For Electrostatic Painting, Add	0.14	
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
09 91 13 00-0305	SF	2	Coats Paint, Sprayed, Paint Existing Chain Link Fence	1.75	
			For Epoxy Paint, Add	0.26	
			For Electrostatic Painting, Add	0.26	
			For Up To 100, Add	0.96	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
09 91 13 00-0306	SF	1	Coat Primer, Brush/Roller, Paint Wrought Iron Fence	1.02	
			For Epoxy Paint, Add	0.14	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
09 91 13 00-0307	SF	1	Coat Paint, Brush/Roller, Paint Wrought Iron Fence	0.96	
			For Epoxy Paint, Add	0.12	
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
09 91 13 00-0308	SF		Each Additional Coat, Brush/Roller, Paint Wrought Iron Fence	0.70	
			For Epoxy Paint, Add	0.10	
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
09 91 13 00-0309	SF	1	Coat Primer, Brush/Roller, Paint Picket Fence	1.32	
			For Epoxy Paint, Add	0.11	
			For Up To 100, Add	0.90	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
09 91 13 00-0310	SF	1	Coat Paint, Brush/Roller, Paint Picket Fence	1.32	
			For Epoxy Paint, Add	0.11	
			For Up To 100, Add	0.90	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
09 91 13 00-0311	SF		Each Additional Coat, Brush/Roller, Paint Picket Fence	0.94	
			For Epoxy Paint, Add	0.09	
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
09 91 13 00-0312	SF	1	Coat Paint, Brush/Roller, Paint Wood Fences	0.98	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
09 91 13 00-0313	SF	2	Coats Paint, Brush/Roller, Paint Wood Fences	1.77	
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.22	
09 91 13 00-0314	SF	1	Coat Paint, Sprayed, Paint Wood Fences	0.74	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
09 91 13 00-0315	SF	2	Coats Paint, Sprayed, Paint Wood Fences	1.38	
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
09 91 13 00-0316 Paint Flagpoles (09 91 13 00-0300)					
09 91 13 00-0317	EA	1	Coat Paint, 20' High, Paint Steel Flagpole	246.81	
09 91 13 00-0318	EA	1	Coat Paint, 30' High, Paint Steel Flagpole	333.09	
09 91 13 00-0319	EA	1	Coat Paint, 40' High, Paint Steel Flagpole	419.44	
09 91 13 00-0320	EA	1	Coat Paint, 50' High, Paint Steel Flagpole	505.79	
09 91 13 00-0321	EA	1	Coat Paint, 70' High, Paint Steel Flagpole	667.41	
09 91 13 00-0322	EA	1	Coat Paint, 80' High, Paint Steel Flagpole	752.37	
09 91 13 00-0323	EA	1	Coat Paint, 90' High, Paint Steel Flagpole	837.34	
09 91 13 00-0324 Paint Lattice Or Trellis (09 91 13 00-0300)					
09 91 13 00-0325	SF	1	Coat Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis	1.80	
			For Up To 100, Add	1.20	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
09 91 13 00-0326	SF	2	Coats Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis	3.35	
			For Up To 100, Add	2.21	
			For >100 To 250, Add	1.05	
			For >250 To 500, Add	0.45	
09 91 13 00-0327 Paint Exterior Stairs (09 91 13)					
09 91 13 00-0328 Paint Exterior Concrete Stairs (09 91 13 00-0327)					
09 91 13 00-0329	RSR	1	Coat Primer, Brush/Roller Work, Paint Up To 4' Wide Exterior Concrete Stair	21.65	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0330	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Concrete Stair	21.65	
09 91 13 00-0331	RSR	1 Coat Non-Slip Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Concrete Stair.....	27.97	
09 91 13 00-0332	RSR	1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Concrete Stair.....	46.39	
09 91 13 00-0333	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Concrete Stair.....	43.32	
09 91 13 00-0334		Paint Exterior Metal Stairs (09 91 13 00-0327)		
09 91 13 00-0335	RSR	1 Coat Primer, Brush/Roller Work, Paint Up To 4' Wide Exterior Metal Stair.....	11.40	
		<i>For Oil Based Paint, Add</i>	0.62	
09 91 13 00-0336	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Metal Stair	11.40	
		<i>For Oil Based Paint, Add</i>	0.62	
09 91 13 00-0337	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Metal Stair	22.78	
		<i>For Oil Based Paint, Add</i>	1.24	
09 91 13 00-0338		Paint Exterior Wood Stairs (09 91 13 00-0327)		
09 91 13 00-0339	RSR	1 Coat Primer, Brush/Roller Work, Paint Up To 4' Wide Exterior Wood Stair	11.26	
09 91 13 00-0340	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Wood Stair.....	11.25	
09 91 13 00-0341	RSR	1 Coat Non-Slip Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Wood Stair	17.57	
09 91 13 00-0342	RSR	1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Wood Stair.....	35.99	
09 91 13 00-0343	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Up To 4' Wide Exterior Wood Stair.....	22.51	
09 91 13 00-0344		Paint Exterior Stair Nosing (09 91 13 00-0327)		
09 91 13 00-0345	LF	1 Coat Paint, Up To 2", Non-Slip, Brush Work, Paint Exterior Yellow Stair Safety Strip.....	2.15	
09 91 13 00-0346		Paint Exterior Trim (09 91 13)		
09 91 13 00-0347		Paint Exterior Metal Trim And Gutters (09 91 13 00-0346)		
09 91 13 00-0348	SF	1 Coat Primer, Brush Work, Paint Exterior Exposed Metal Trim	1.48	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.18	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.31	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.49	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.67	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0349	SF	1 Coat Paint, Brush Work, Paint Exterior Exposed Metal Trim	1.61	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.20	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.34	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.54	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.74	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0350	SF	2 Coats Paint, Brush Work, Paint Exterior Exposed Metal Trim	2.93	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.36	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.60	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.96	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	1.33	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0351	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	1.34	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.16	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.27	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.43	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.59	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0352	SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim	1.46	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.18	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.30	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.48	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.66	
		<i>Note: Applied only to work area above 40'.</i>		
09 91 13 00-0353	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim	2.63	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.32	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.53	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.84	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	1.16	
		<i>Note: Applied only to work area above 40'.</i>		



		Finishes	09	09
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0354	LF	1	Coat Paint, Brush Work, Paint Exterior Gutter And Downspout.....	2.33	
			For Work >15' To 20' Above Floor, Add	0.30	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.50	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.79	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.09	
			Note: Applied only to work area above 40'.		
09 91 13 00-0355	LF	2	Coats Paint, Brush Work, Paint Exterior Gutter And Downspout.....	2.96	
			For Work >15' To 20' Above Floor, Add	0.44	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.73	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.16	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.60	
			Note: Applied only to work area above 40'.		
09 91 13 00-0356 Paint Exterior Wood Trim (09 91 13 00-0346)					
09 91 13 00-0357	SF	1	Coat Primer, Brush Work, Paint Exterior Wood Trim	2.19	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.26	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.44	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.70	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.96	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.37	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	
09 91 13 00-0358	SF	1	Coat Paint, Brush Work, Paint Exterior Wood Trim	2.38	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.28	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.47	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.75	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.03	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.49	
			For >100 To 250, Add	0.71	
			For >250 To 500, Add	0.31	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000, Deduct	-0.48	
09 91 13 00-0359	SF	2	Coats Paint, Brush Work, Paint Exterior Wood Trim	4.32	
			For Oil Based Paint, Add	0.27	
			For Work >15' To 20' Above Floor, Add	0.50	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.83	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.83	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.64	
			For >100 To 250, Add	1.26	
			For >250 To 500, Add	0.55	
			For >2,500 To 5,000, Deduct	-0.22	
			For >5,000 To 10,000, Deduct	-0.43	
			For >10,000 To 20,000, Deduct	-0.65	
			For >20,000, Deduct	-0.86	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0360	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Trim.....	1.75	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.33	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.72	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.35	
09 91 13 00-0361	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Trim.....	1.94	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.58	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.79	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.39	
09 91 13 00-0362	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Trim.....	3.62	
			For Oil Based Paint, Add	0.23	
			For Work >15' To 20' Above Floor, Add	0.39	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.66	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.05	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.44	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.12	
			For >100 To 250, Add	1.02	
			For >250 To 500, Add	0.44	
			For >2,500 To 5,000, Deduct	-0.18	
			For >5,000 To 10,000, Deduct	-0.36	
			For >10,000 To 20,000, Deduct	-0.54	
			For >20,000, Deduct	-0.72	
09 91 13 00-0363	SF		1 Coat Primer, Sprayed, Paint Exterior Wood Trim.....	1.36	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0364	SF		1 Coat Paint, Sprayed, Paint Exterior Wood Trim.....	1.52	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.30	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0365 SF 2 Coats Paint, Sprayed, Paint Exterior Wood Trim.....	2.88	
For Oil Based Paint, Add	0.20	
For Work >15' To 20' Above Floor, Add	0.27	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.45	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.71	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.98	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.50	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.32	
For >500 To 10,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.29	
For >10,000 To 20,000, Deduct	-0.43	
For >20,000, Deduct	-0.58	
09 91 13 00-0366 Paint Exterior Miscellaneous Metal Surfaces (09 91 13)		
09 91 13 00-0367 SF 1 Coat Alkyd Anticorrosive Metal Primer, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces.....	1.77	
For Epoxy Paint, Add	0.21	
For Electrostatic Painting, Add	0.24	
09 91 13 00-0368 SF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces	1.64	
For Epoxy Paint, Add	0.16	
For Electrostatic Painting, Add	0.20	
09 91 13 00-0369 SF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces	3.32	
For Epoxy Paint, Add	0.34	
For Electrostatic Painting, Add	0.42	
09 91 33 Painting Materials (09 91)		
Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.		
09 91 33 00-0001 Primer (09 91 33)		
09 91 33 00-0002 GAL Alkyd Primer/Sealer, Interior, 500 SF Per Gallon.....	67.54	
09 91 33 00-0003 GAL Alkyd Wood Primer, Exterior, 400 SF Per Gallon	43.03	
09 91 33 00-0004 GAL Prime Coat Oil Wood Primer, 310 SF Per Gallon	54.57	
09 91 33 00-0005 GAL Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon.....	154.56	
09 91 33 00-0006 EA Cement Base Primer, 25 Lb. Sack.....	45.00	
09 91 33 00-0007 GAL Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon	69.38	
09 91 33 00-0008 GAL Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon.....	55.69	
09 91 33 00-0009 GAL Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF per Gallon.....	43.03	
09 91 33 00-0010 GAL Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon.....	39.10	
09 91 33 00-0011 GAL Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon	68.91	
09 91 33 00-0012 GAL Acrylic Heavy-Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon	57.38	
09 91 33 00-0013 GAL Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon.....	57.38	
09 91 33 00-0014 GAL Latex Wood Primer, Exterior, 300 SF Per Gallon	64.69	
09 91 33 00-0015 GAL Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon	42.19	
09 91 33 00-0016 GAL Red Alkyd Primer, 500 SF Per Gallon	115.59	
09 91 33 00-0017 GAL Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon	45.00	
09 91 33 00-0018 GAL Zinc Chromate Primer, 300 SF Per Gallon	36.00	
09 91 33 00-0019 GAL Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon.....	93.10	
09 91 33 00-0020 GAL Stain Killer, Alcohol Base.....	58.05	
09 91 33 00-0021 GAL Sealer, Primer Kilz, 400 SF Per Gallon.....	65.50	
09 91 33 00-0022 Paint (09 91 33)		
09 91 33 00-0023 GAL Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon.....	31.50	
09 91 33 00-0024 GAL Acrylic Urethane Sealer	156.20	
09 91 33 00-0025 GAL Asphalt-Fiber Roof And Foundation Coating, Solvent Type	16.88	
Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.		
09 91 33 00-0026 GAL Concrete Enamel Epoxy, 350 SF Per Gallon.....	97.60	
09 91 33 00-0027 GAL Concrete Acrylic Sealer, 400 SF Per Gallon	51.19	
09 91 33 00-0028 GAL Tar Emulsion, Driveway Coating, 120 SF Per Gallon	22.41	
09 91 33 00-0029 GAL Acrylic Latex, Driveway Coating, 250 SF Per Gallon.....	33.99	
09 91 33 00-0030 GAL Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	92.71	
09 91 33 00-0031 GAL Exterior, Oil Base, Gloss, 400 SF Per Gallon	91.52	
09 91 33 00-0032 GAL Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	74.71	
09 91 33 00-0033 GAL Exterior, Flat, Oil Base.....	68.48	
09 91 33 00-0034 GAL Exterior, Latex, Semi-Gloss, 400 SF Per Gallon.....	65.00	
09 91 33 00-0035 GAL Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon	76.58	
09 91 33 00-0036 GAL Exterior, Latex Flat Paint, 300 SF Per Gallon	67.99	
09 91 33 00-0037 GAL Exterior, Water Base, Latex Gloss Enamel.....	96.78	
09 91 33 00-0038 GAL Cold Galvanizing Paint	372.72	
09 91 33 00-0039 GAL High Heat Paint.....	163.65	
09 91 33 00-0040 GAL Heat Resistant Paint.....	109.10	
09 91 33 00-0041 GAL Zinc Chromate Paint.....	98.71	
09 91 33 00-0042 QT Anti-Rust Enamel, 500 SF Per Quart.....	38.96	
09 91 33 00-0043 GAL Rust Inhibitor, Ferrous Metal	109.10	
09 91 33 00-0044 GAL Masonry Waterproofing, 100 SF Per Gallon	67.99	
09 91 33 00-0045 GAL Alkyd Latex, Black	80.96	
09 91 33 00-0046 GAL Alkyd Latex, White	73.60	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 33 00-0047 GAL Alkyd Latex, Colors.....	88.75	
09 91 33 00-0048 QT Wrought Iron Paint, Black	99.58	
09 91 33 00-0049 GAL Vinyl Paint.....	86.07	
09 91 33 00-0050 GAL Silicone Alkyd	104.63	
09 91 33 00-0051 GAL 2 Component Solvent Based Acrylic Epoxy	106.32	
09 91 33 00-0052 GAL 2 Component Solvent Based Polyester Epoxy	133.32	
09 91 33 00-0053 GAL Chlorinated Rubber.....	97.88	
09 91 33 00-0054 GAL Polyamide Epoxy Sealer.....	101.26	
09 91 33 00-0055 GAL Coal Tar Epoxy	72.57	
09 91 33 00-0056 GAL Swimming Pool Enamel, 350 SF Per Gallon.....	90.57	
09 91 33 00-0057 GAL Swimming Pool Epoxy Or Urethane Base	118.13	
09 91 33 00-0058 GAL Swimming Pool Rubber Base	81.00	
09 91 33 00-0059 GAL Interior, Latex Flat Paint, 300 SF Per Gallon	51.47	
09 91 33 00-0060 GAL Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	63.43	
09 91 33 00-0061 GAL Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	105.47	
09 91 33 00-0062 GAL Interior, Ceiling White Latex Flat, 350 SF Per Gallon	35.72	
09 91 33 00-0063 GAL Linseed Oil.....	31.22	
09 91 33 00-0064 GAL Latex Floor Paint, 300 SF Per Gallon	51.19	
09 91 33 00-0065 GAL Acrylic Floor Paint, 400 SF Per Gallon.....	57.66	
09 91 33 00-0066 GAL Textured Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon.....	52.74	
09 91 33 00-0067 GAL Acoustic Spray-On Texture, Finish	42.38	
09 91 33 00-0068 Stain, Varnish (09 91 33)		
09 91 33 00-0069 GAL Thompson Water Sealer, 150 SF Per Gallon.....	29.25	
09 91 33 00-0070 GAL Latex Redwood Stain, Water Base, 300 SF Per Gallon.....	54.57	
09 91 33 00-0071 GAL Redwood Oil Stain, 300 SF Per Gallon.....	48.66	
09 91 33 00-0072 GAL Varnish, Clear.....	47.44	
09 91 33 00-0073 GAL Penetrating Water-Repellent Stain	34.45	
09 91 33 00-0074 GAL Redwood Hue Or Clear Stain	30.79	
09 91 33 00-0075 GAL Polyurethane.....	54.06	
09 91 33 00-0076 GAL Lacquer, Semi-Gloss	51.34	
09 91 33 00-0077 GAL Shellac, Clear	67.35	
09 91 33 00-0078 GAL Acetone.....	22.22	
09 91 33 00-0079 GAL Paint Thinner	5.48	
09 91 33 00-0080 GAL Shellac Or Lacquer Thinner	22.50	
09 91 33 00-0081 GAL Turpentine.....	30.94	
09 91 33 00-0082 GAL Wood Filler Paste	52.88	
09 91 33 00-0083 GAL Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	42.19	
09 91 33 00-0084 GAL Water Based Alkyd Urethane (Sherwin Williams B53W01153)	109.22	
09 91 43 Surface Preparation (09 91)		
See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.		
09 96 High-Performance Coatings (09 90)		
09 96 23 Graffiti-Resistant Coatings (09 96)		
09 96 23 00-0001 Anti-Graffiti Coating (09 96 23)		
09 96 23 00-0002 SF Sacrificial Anti-Graffiti Coating, Per Coat.....	1.88	
For Up To 100, Add	1.16	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
09 96 23 00-0003 SF Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat.....	1.99	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.25	
09 96 53 Elastomeric Coatings (09 96)		
09 96 53 00-0001 Elastomeric (09 96 53)		
Note: Per coat.		
09 96 53 00-0002 SF 1 Coat, 5.3 To 8 Wet Mills, Brush Work, Elastomeric Primer Applied To Walls And Floors.....	1.15	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	



		Finishes	09	
		Painting and Coating	09 90	
		High-Performance Coatings	09 96	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0003	SF		1 Coat, 5.3 To 8 Wet Mils, Brush/Roller Work, Elastomeric Primer Applied To Walls And Floors	0.97	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.43	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 96 53 00-0004	SF		1 Coat, 5.3 To 8 Wet Mils, Sprayed, Elastomeric Primer Applied To Walls And Floors	0.77	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.21	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.43	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.15	
09 96 53 00-0005	SF		1 Coat, 13 To 16 Wet Mils, Brush Work, Elastomeric Paint Applied To Walls And Floors	2.33	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.28	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.45	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.62	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.47	
09 96 53 00-0006	SF		1 Coat, 13 To 16 Wet Mils, Brush/Roller Work, Elastomeric Paint Applied To Walls And Floors	2.15	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.38	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.52	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.89	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.43	
09 96 53 00-0007	SF		1 Coat, 13 To 16 Wet Mils, Sprayed, Elastomeric Paint Applied To Walls And Floors	2.26	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.25	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.35	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.34	
			For >20,000, Deduct	-0.45	

09 Finishes**09 90 Painting and Coating****09 96 High-Performance Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0008	SF		1 Coat, 5.3 To 8 Wet Mils, Brush Work, Elastomeric Primer Applied To Ceilings And Overhead.....	1.31	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.28	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.44	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.61	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.26	
09 96 53 00-0009	SF		1 Coat, 5.3 To 8 Wet Mils, Brush/Roller Work, Elastomeric Primer Applied To Ceilings And Overhead	1.11	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.37	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.51	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 96 53 00-0010	SF		1 Coat, 5.3 To 8 Wet Mils, Sprayed, Elastomeric Primer Applied To Ceilings And Overhead	0.86	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.25	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 96 53 00-0011	SF		1 Coat, 13 To 16 Wet Mils, Brush Work, Elastomeric Paint Applied To Ceilings And Overhead	2.51	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.33	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.72	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.58	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.38	
			For >20,000, Deduct	-0.50	
09 96 53 00-0012	SF		1 Coat, 13 To 16 Wet Mils, Brush/Roller Work, Elastomeric Paint Applied To Ceilings And Overhead.....	2.30	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.44	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.60	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.00	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.46	



Finishes			09
Painting and Coating			09 90
High-Performance Coatings			09 96

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0013	SF	1 Coat, 13 To 16 Wet Mils, Sprayed, Elastomeric Paint Applied To Ceilings And Overhead	2.36		
		For Work >15' To 20' Above Floor, Add	0.11		
		Note: Applied only to work area above 15' to 20'.			
		For Work >20' To 30' Above Floor, Add	0.18		
		Note: Applied only to work area above 20'.			
		For Work >30' To 40' Above Floor, Add	0.29		
		Note: Applied only to work area above 30' to 40'.			
		For Work >40' Above Floor, Add	0.40		
		Note: Applied only to work area above 40'.			
		For Up To 100, Add	0.79		
		For >100 To 250, Add	0.42		
		For >250 To 500, Add	0.19		
		For >2,500 To 5,000, Deduct	-0.12		
		For >5,000 To 10,000, Deduct	-0.24		
		For >10,000 To 20,000, Deduct	-0.35		
		For >20,000, Deduct	-0.47		
09 96 56 Epoxy Coatings (09 96)					
09 96 56 00-0001		High Build Epoxy (09 96 56)			
09 96 56 00-0002	SF	50 Mil, High Build Epoxy	3.90		
09 96 56 00-0003 Laminated Epoxy With Fiberglass (09 96 56)					
09 96 56 00-0004	SF	Laminated Epoxy With Fiberglass	7.88		
09 96 66 Aggregate Wall Coatings (09 96)					
09 96 66 00-0001		Troweled On (09 96 66)			
09 96 66 00-0002	SF	Exposed Aggregate - 1/16" To 1/4" - Troweled On	5.49		
09 96 66 00-0003	SF	Exposed Aggregate - 1/2" To 5/8" Troweled On	9.88		
09 96 66 00-0004	SF	Exposed Aggregate - 1" Troweled On	14.69		
09 96 66 00-0005		Sprayed On (09 96 66)			
09 96 66 00-0006	SF	Exposed Aggregate - 1/8" - Sprayed On	4.47		
09 97 Special Coatings (09 90)					
09 97 13 Steel Coatings (09 97)					
09 97 13 23 Exterior Steel Coatings (09 97 13)					
Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.					
09 97 13 23-0001		Surface Preparation For Structural Steel (09 97 13 23)			
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.					
09 97 13 23-0002		SSPC SP2 Hand Tool Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)			
Note: Hand Tool Cleaning removes all loose mill scale, loose rust and other detrimental foreign matter. It is not intended that adherent mill scale, rust and paint be removed by this process. Mill scale, rust and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before hand tool cleaning, remove visible oil, grease, soluble welding residues and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Society of Protective Coatings Surface Preparation Specification No. 2 or ISO 8501-1 St 3.					
09 97 13 23-0003	SF	Type 1 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	2.05		
		For Up To 100, Add	1.54		
		For >100 To 250, Add	0.72		
		For >250 To 500, Add	0.31		
09 97 13 23-0004	SF	Type 2 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.97		
		For Up To 100, Add	1.48		
		For >100 To 250, Add	0.69		
		For >250 To 500, Add	0.30		
09 97 13 23-0005	SF	Type 3 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.97		
		For Up To 100, Add	1.48		
		For >100 To 250, Add	0.69		
		For >250 To 500, Add	0.30		
09 97 13 23-0006	SF	Up To 14" Diameter Pipe SP2 Hand Tool Cleaning Surface Preparation	2.67		
		For Up To 100, Add	2.00		
		For >100 To 250, Add	0.93		
		For >250 To 500, Add	0.40		
09 97 13 23-0007		SSPC SP3 Power Tool Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)			
Note: Power Tool Cleaning removes all loose mill scale, loose rust and other detrimental foreign matter. It is not intended that adherent mill scale, rust and paint be removed by this process. Mill scale, rust and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before power tool cleaning, remove visible oil, grease, soluble welding residues and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Society of Protective Coatings Surface Preparation Specification No. 3 or ISO 8501-1 St 3.					

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0008	SF	Type 1 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	2.08	
		For Up To 100, Add	1.56	
		For >100 To 250, Add	0.73	
		For >250 To 500, Add	0.31	
09 97 13 23-0009	SF	Type 2 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	2.00	
		For Up To 100, Add	1.50	
		For >100 To 250, Add	0.70	
		For >250 To 500, Add	0.30	
09 97 13 23-0010	SF	Type 3 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	2.00	
		For Up To 100, Add	1.50	
		For >100 To 250, Add	0.70	
		For >250 To 500, Add	0.30	
09 97 13 23-0011	SF	Up To 14" Diameter Pipe SP3 Power Tool Cleaning Surface Preparation	2.71	
		For Up To 100, Add	2.03	
		For >100 To 250, Add	0.95	
		For >250 To 500, Add	0.41	
09 97 13 23-0012	SF	>14" Diameter Pipe SP3 Power Tool Cleaning Surface Preparation	2.45	
		For Up To 100, Add	1.84	
		For >100 To 250, Add	0.86	
		For >250 To 500, Add	0.37	
09 97 13 23-0013		SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
		Note: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust and loose paint. Tightly adherent mill scale, rust and paint may remain on the surface. Mill scale, rust and coating are considered adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP11		
09 97 13 23-0014	SF	Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.28	
		For Up To 100, Add	0.91	
		For >100 To 250, Add	0.43	
		For >250 To 500, Add	0.18	
09 97 13 23-0015	SF	Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.14	
		For Up To 100, Add	0.80	
		For >100 To 250, Add	0.38	
		For >250 To 500, Add	0.16	
09 97 13 23-0016	SF	Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.13	
		For Up To 100, Add	0.80	
		For >100 To 250, Add	0.38	
		For >250 To 500, Add	0.16	
09 97 13 23-0017	SF	Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation.....	1.60	
		For Up To 100, Add	1.14	
		For >100 To 250, Add	0.54	
		For >250 To 500, Add	0.23	
09 97 13 23-0018		SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
		Note: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 33% of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE 3 or ISO 8501-1 Sa 2.		
09 97 13 23-0019	SF	Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	3.31	
		For Up To 100, Add	2.38	
		For >100 To 250, Add	1.12	
		For >250 To 500, Add	0.48	
09 97 13 23-0020	SF	Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.87	
		For Up To 100, Add	2.06	
		For >100 To 250, Add	0.96	
		For >250 To 500, Add	0.41	
09 97 13 23-0021	SF	Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.66	
		For Up To 100, Add	1.90	
		For >100 To 250, Add	0.89	
		For >250 To 500, Add	0.38	
09 97 13 23-0022	SF	Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation.....	4.16	
		For Up To 100, Add	3.02	
		For >100 To 250, Add	1.41	
		For >250 To 500, Add	0.61	
09 97 13 23-0023		SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
		Note: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete Instructions, refer to Joint Surface Preparation Standard SSPC-SP5/NACE 1 or ISO 8501-1 Sa 3.		



		Finishes	09	2
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0024	SF	Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	6.45	
		For Up To 100, Add	4.66	
		For >100 To 250, Add	2.18	
		For >250 To 500, Add	0.94	
09 97 13 23-0025	SF	Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	5.51	
		For Up To 100, Add	3.96	
		For >100 To 250, Add	1.86	
		For >250 To 500, Add	0.80	
09 97 13 23-0026	SF	Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	5.06	
		For Up To 100, Add	3.63	
		For >100 To 250, Add	1.70	
		For >250 To 500, Add	0.73	
09 97 13 23-0027	SF	Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation.....	7.80	
		For Up To 100, Add	5.68	
		For >100 To 250, Add	2.66	
		For >250 To 500, Add	1.14	
09 97 13 23-0028		SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
		Note: A Near-White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP10/NACE 2 or ISO 8501-1 Sa 2.5.		
09 97 13 23-0029	SF	Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.79	
		For Up To 100, Add	3.45	
		For >100 To 250, Add	1.62	
		For >250 To 500, Add	0.69	
09 97 13 23-0030	SF	Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.08	
		For Up To 100, Add	2.93	
		For >100 To 250, Add	1.38	
		For >250 To 500, Add	0.59	
09 97 13 23-0031	SF	Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.85	
		For Up To 100, Add	2.76	
		For >100 To 250, Add	1.30	
		For >250 To 500, Add	0.56	
09 97 13 23-0032	SF	Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation.....	5.68	
		For Up To 100, Add	4.13	
		For >100 To 250, Add	1.94	
		For >250 To 500, Add	0.83	
09 97 13 23-0033		Protective Coatings For Tanks And Structural Steel (09 97 13 23)		
		Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0034		1.5 Mil Prime Coat For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0035	SF	Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.36	
		For Up To 100, Add	0.89	
		For >100 To 250, Add	0.42	
		For >250 To 500, Add	0.18	
09 97 13 23-0036	SF	Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	1.02	
		For Up To 100, Add	0.66	
		For >100 To 250, Add	0.31	
		For >250 To 500, Add	0.14	
09 97 13 23-0037	SF	Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.91	
		For Up To 100, Add	0.57	
		For >100 To 250, Add	0.27	
		For >250 To 500, Add	0.12	
09 97 13 23-0038	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.61	
		For Up To 100, Add	1.09	
		For >100 To 250, Add	0.51	
		For >250 To 500, Add	0.22	
09 97 13 23-0039	SF	Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.91	
		For Up To 100, Add	1.31	
		For >100 To 250, Add	0.62	
		For >250 To 500, Add	0.27	
09 97 13 23-0040	SF	Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	1.42	
		For Up To 100, Add	0.96	
		For >100 To 250, Add	0.45	
		For >250 To 500, Add	0.20	
09 97 13 23-0041	SF	Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	1.27	
		For Up To 100, Add	0.84	
		For >100 To 250, Add	0.40	
		For >250 To 500, Add	0.17	
09 97 13 23-0042	SF	Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	2.31	
		For Up To 100, Add	1.61	
		For >100 To 250, Add	0.76	
		For >250 To 500, Add	0.33	
09 97 13 23-0043		1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0033)		

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0044 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.99	
For Up To 100, Add	2.60	
For >100 To 250, Add	1.23	
For >250 To 500, Add	0.53	
09 97 13 23-0045 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.88	
For Up To 100, Add	1.81	
For >100 To 250, Add	0.86	
For >250 To 500, Add	0.37	
09 97 13 23-0046 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.67	
For Up To 100, Add	1.65	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.34	
09 97 13 23-0047 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.85	
For Up To 100, Add	3.23	
For >100 To 250, Add	1.53	
For >250 To 500, Add	0.66	
09 97 13 23-0048 SF Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.00	
For Up To 100, Add	1.96	
For >100 To 250, Add	0.93	
For >250 To 500, Add	0.40	
09 97 13 23-0049 SF Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.16	
For Up To 100, Add	1.36	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
09 97 13 23-0050 SF Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.01	
For Up To 100, Add	1.24	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
09 97 13 23-0051 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.64	
For Up To 100, Add	2.42	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.50	
09 97 13 23-0052 SF Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	6.08	
For Up To 100, Add	4.17	
For >100 To 250, Add	1.97	
For >250 To 500, Add	0.85	
09 97 13 23-0053 SF Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.33	
For Up To 100, Add	2.89	
For >100 To 250, Add	1.37	
For >250 To 500, Add	0.59	
09 97 13 23-0054 SF Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.98	
For Up To 100, Add	2.63	
For >100 To 250, Add	1.25	
For >250 To 500, Add	0.54	
09 97 13 23-0055 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	7.47	
For Up To 100, Add	5.19	
For >100 To 250, Add	2.44	
For >250 To 500, Add	1.05	
09 97 13 23-0056 SF Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.56	
For Up To 100, Add	3.13	
For >100 To 250, Add	1.47	
For >250 To 500, Add	0.64	
09 97 13 23-0057 SF Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.24	
For Up To 100, Add	2.17	
For >100 To 250, Add	1.02	
For >250 To 500, Add	0.44	
09 97 13 23-0058 SF Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.99	
For Up To 100, Add	1.98	
For >100 To 250, Add	0.94	
For >250 To 500, Add	0.40	
09 97 13 23-0059 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	5.61	
For Up To 100, Add	3.90	
For >100 To 250, Add	1.84	
For >250 To 500, Add	0.79	
09 97 13 23-0060 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0061 SF Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.08	
For Up To 100, Add	2.03	
For >100 To 250, Add	0.96	
For >250 To 500, Add	0.42	
09 97 13 23-0062 SF Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.51	
For Up To 100, Add	1.62	
For >100 To 250, Add	0.77	
For >250 To 500, Add	0.33	
09 97 13 23-0063 SF Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.31	
For Up To 100, Add	1.47	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
09 97 13 23-0064 SF Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.83	
For Up To 100, Add	2.58	
For >100 To 250, Add	1.22	
For >250 To 500, Add	0.53	



		Finishes	09	2
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0065	SF		Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.97	
			For Up To 100, Add	1.30	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.27	
09 97 13 23-0066	SF		Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.61	
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
09 97 13 23-0067	SF		Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.48	
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.19	
09 97 13 23-0068	SF		Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.45	
			For Up To 100, Add	1.65	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.34	
09 97 13 23-0069	SF		Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.34	
			For Up To 100, Add	2.97	
			For >100 To 250, Add	1.40	
			For >250 To 500, Add	0.60	
09 97 13 23-0070	SF		Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.53	
			For Up To 100, Add	2.39	
			For >100 To 250, Add	1.13	
			For >250 To 500, Add	0.49	
09 97 13 23-0071	SF		Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.22	
			For Up To 100, Add	2.16	
			For >100 To 250, Add	1.02	
			For >250 To 500, Add	0.44	
09 97 13 23-0072	SF		Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	5.45	
			For Up To 100, Add	3.79	
			For >100 To 250, Add	1.79	
			For >250 To 500, Add	0.77	
09 97 13 23-0073	SF		Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.78	
			For Up To 100, Add	1.91	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.39	
09 97 13 23-0074	SF		Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.26	
			For Up To 100, Add	1.53	
			For >100 To 250, Add	0.72	
			For >250 To 500, Add	0.31	
09 97 13 23-0075	SF		Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.06	
			For Up To 100, Add	1.38	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
09 97 13 23-0076	SF		Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	3.48	
			For Up To 100, Add	2.42	
			For >100 To 250, Add	1.14	
			For >250 To 500, Add	0.49	
09 97 13 23-0077			2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0078	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	5.08	
			For Up To 100, Add	3.02	
			For >100 To 250, Add	1.45	
			For >250 To 500, Add	0.63	
09 97 13 23-0079	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.71	
			For Up To 100, Add	2.06	
			For >100 To 250, Add	1.00	
			For >250 To 500, Add	0.44	
09 97 13 23-0080	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.28	
			For Up To 100, Add	1.74	
			For >100 To 250, Add	0.85	
			For >250 To 500, Add	0.37	
09 97 13 23-0081	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	5.75	
			For Up To 100, Add	3.50	
			For >100 To 250, Add	1.67	
			For >250 To 500, Add	0.73	
09 97 13 23-0082	SF		Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.55	
			For Up To 100, Add	2.11	
			For >100 To 250, Add	1.01	
			For >250 To 500, Add	0.44	
09 97 13 23-0083	SF		Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.59	
			For Up To 100, Add	1.44	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.30	
09 97 13 23-0084	SF		Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.31	
			For Up To 100, Add	1.23	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
09 97 13 23-0085	SF		Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.02	
			For Up To 100, Add	2.45	
			For >100 To 250, Add	1.17	
			For >250 To 500, Add	0.51	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0086		2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0087	SF	Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	5.45	
		For Up To 100, Add	3.07	
		For >100 To 250, Add	1.49	
		For >250 To 500, Add	0.65	
09 97 13 23-0088	SF	Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	4.05	
		For Up To 100, Add	2.11	
		For >100 To 250, Add	1.03	
		For >250 To 500, Add	0.45	
09 97 13 23-0089	SF	Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	3.62	
		For Up To 100, Add	1.79	
		For >100 To 250, Add	0.88	
		For >250 To 500, Add	0.39	
09 97 13 23-0090	SF	Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	6.14	
		For Up To 100, Add	3.56	
		For >100 To 250, Add	1.71	
		For >250 To 500, Add	0.75	
09 97 13 23-0091	SF	Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	4.47	
		For Up To 100, Add	2.52	
		For >100 To 250, Add	1.22	
		For >250 To 500, Add	0.53	
09 97 13 23-0092	SF	Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	3.31	
		For Up To 100, Add	1.73	
		For >100 To 250, Add	0.84	
		For >250 To 500, Add	0.37	
09 97 13 23-0093	SF	Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.97	
		For Up To 100, Add	1.47	
		For >100 To 250, Add	0.72	
		For >250 To 500, Add	0.32	
09 97 13 23-0094	SF	Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats	5.02	
		For Up To 100, Add	2.91	
		For >100 To 250, Add	1.40	
		For >250 To 500, Add	0.61	
09 97 13 23-0095		1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0096	SF	Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	11.39	
		For Up To 100, Add	6.59	
		For >100 To 250, Add	3.17	
		For >250 To 500, Add	1.38	
09 97 13 23-0097	SF	Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	8.65	
		For Up To 100, Add	4.74	
		For >100 To 250, Add	2.30	
		For >250 To 500, Add	1.01	
09 97 13 23-0098	SF	Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	8.34	
		For Up To 100, Add	4.51	
		For >100 To 250, Add	2.19	
		For >250 To 500, Add	0.96	
09 97 13 23-0099	SF	Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	13.22	
		For Up To 100, Add	7.93	
		For >100 To 250, Add	3.80	
		For >250 To 500, Add	1.65	
09 97 13 23-0100		1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0101	SF	Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	6.01	
		For Up To 100, Add	3.22	
		For >100 To 250, Add	1.57	
		For >250 To 500, Add	0.69	
09 97 13 23-0102	SF	Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.74	
		For Up To 100, Add	2.28	
		For >100 To 250, Add	1.13	
		For >250 To 500, Add	0.50	
09 97 13 23-0103	SF	Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.53	
		For Up To 100, Add	2.12	
		For >100 To 250, Add	1.05	
		For >250 To 500, Add	0.47	
09 97 13 23-0104	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	6.81	
		For Up To 100, Add	3.78	
		For >100 To 250, Add	1.83	
		For >250 To 500, Add	0.80	
09 97 13 23-0105	SF	Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	4.75	
		For Up To 100, Add	2.54	
		For >100 To 250, Add	1.24	
		For >250 To 500, Add	0.54	
09 97 13 23-0106	SF	Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.74	
		For Up To 100, Add	1.80	
		For >100 To 250, Add	0.89	
		For >250 To 500, Add	0.39	



		Finishes	09	2
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0107	SF		Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.58	
			For Up To 100, Add	1.68	
			For >100 To 250, Add	0.83	
			For >250 To 500, Add	0.37	
09 97 13 23-0108	SF		Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	5.37	
			For Up To 100, Add	2.98	
			For >100 To 250, Add	1.44	
			For >250 To 500, Add	0.63	
09 97 13 23-0109 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel (09 97 13 23-0033)					
09 97 13 23-0110	SF		Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	5.08	
			For Up To 100, Add	3.08	
			For >100 To 250, Add	1.47	
			For >250 To 500, Add	0.64	
09 97 13 23-0111	SF		Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	4.13	
			For Up To 100, Add	2.43	
			For >100 To 250, Add	1.17	
			For >250 To 500, Add	0.51	
09 97 13 23-0112	SF		Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.82	
			For Up To 100, Add	2.20	
			For >100 To 250, Add	1.06	
			For >250 To 500, Add	0.46	
09 97 13 23-0113	SF		Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats	6.27	
			For Up To 100, Add	3.95	
			For >100 To 250, Add	1.88	
			For >250 To 500, Add	0.81	
09 97 13 23-0114 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel (09 97 13 23-0033)					
09 97 13 23-0115	SF		Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	4.88	
			For Up To 100, Add	3.11	
			For >100 To 250, Add	1.48	
			For >250 To 500, Add	0.64	
09 97 13 23-0116	SF		Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.48	
			For Up To 100, Add	2.09	
			For >100 To 250, Add	1.00	
			For >250 To 500, Add	0.44	
09 97 13 23-0117	SF		Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.95	
			For Up To 100, Add	1.69	
			For >100 To 250, Add	0.82	
			For >250 To 500, Add	0.36	
09 97 13 23-0118	SF		Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	5.58	
			For Up To 100, Add	3.59	
			For >100 To 250, Add	1.71	
			For >250 To 500, Add	0.74	
09 97 13 23-0119 One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0033)					
09 97 13 23-0120	SF		Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat	2.63	
			For Up To 100, Add	1.40	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.30	
09 97 13 23-0121	SF		Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat	1.92	
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.20	
09 97 13 23-0122	SF		Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat	1.82	
			For Up To 100, Add	0.84	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.19	
09 97 13 23-0123	SF		Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat	2.78	
			For Up To 100, Add	1.49	
			For >100 To 250, Add	0.72	
			For >250 To 500, Add	0.32	
09 97 13 23-0124 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0033)					
			Note: Installed over existing primer.		
09 97 13 23-0125	SF		Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	4.04	
			For Up To 100, Add	2.36	
			For >100 To 250, Add	1.13	
			For >250 To 500, Add	0.49	
09 97 13 23-0126	SF		Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	3.31	
			For Up To 100, Add	1.87	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.39	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0127	SF		Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.90	
			For Up To 100, Add	1.56	
			For >100 To 250, Add	0.76	
			For >250 To 500, Add	0.33	
09 97 13 23-0128	SF		Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats	4.71	
			For Up To 100, Add	2.84	
			For >100 To 250, Add	1.36	
			For >250 To 500, Add	0.59	
09 97 13 24 Steel Water Storage Tank Painting (09 97 13)					
09 97 13 24-0001			Surface Preparation For Tanks (09 97 13 24) Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002			SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0003	SF		Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.97	
			For Up To 100, Add	1.48	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
09 97 13 24-0004	SF		Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.75	
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.26	
09 97 13 24-0005	SF		Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation	2.47	
			For Up To 100, Add	1.85	
			For >100 To 250, Add	0.86	
			For >250 To 500, Add	0.37	
09 97 13 24-0006			SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0007	SF		Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	1.08	
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.15	
09 97 13 24-0008	SF		Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.87	
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.12	
09 97 13 24-0009	SF		Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation	1.54	
			For Up To 100, Add	1.12	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
09 97 13 24-0010			SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0011	SF		Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.66	
			For Up To 100, Add	1.90	
			For >100 To 250, Add	0.89	
			For >250 To 500, Add	0.38	
09 97 13 24-0012	SF		Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.44	
			For Up To 100, Add	1.73	
			For >100 To 250, Add	0.81	
			For >250 To 500, Add	0.35	
09 97 13 24-0013	SF		Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation	3.58	
			For Up To 100, Add	2.59	
			For >100 To 250, Add	1.21	
			For >250 To 500, Add	0.52	
09 97 13 24-0014			SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0015	SF		Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	4.82	
			For Up To 100, Add	3.45	
			For >100 To 250, Add	1.62	
			For >250 To 500, Add	0.70	
09 97 13 24-0016	SF		Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	4.60	
			For Up To 100, Add	3.29	
			For >100 To 250, Add	1.54	
			For >250 To 500, Add	0.66	
09 97 13 24-0017	SF		Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation	6.76	
			For Up To 100, Add	4.91	
			For >100 To 250, Add	2.30	
			For >250 To 500, Add	0.99	
09 97 13 24-0018			SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0019	SF		Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation	3.84	
			For Up To 100, Add	2.76	
			For >100 To 250, Add	1.29	
			For >250 To 500, Add	0.56	



		Finishes	09	2
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0020 SF Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.84	
For Up To 100, Add	2.76	
For >100 To 250, Add	1.29	
For >250 To 500, Add	0.56	
09 97 13 24-0021 SF Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	5.67	
For Up To 100, Add	4.13	
For >100 To 250, Add	1.93	
For >250 To 500, Add	0.83	
09 97 13 24-0022 Protective Coatings For Tanks (09 97 13 24)		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023 1.5 Mil Prime Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0024 SF Spray Small Vessel/Tank 1.5 Mil Prime Coat	0.80	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
09 97 13 24-0025 SF Spray Large Vessel/Tank 1.5 Mil Prime Coat	0.65	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
09 97 13 24-0026 SF Spray Tank Interior 1.5 Mil Prime Coat	1.52	
For Up To 100, Add	1.04	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
09 97 13 24-0027 SF Brush Small Vessel/Tank 1.5 Mil Prime Coat	1.10	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 24-0028 SF Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.89	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 97 13 24-0029 SF Brush Tank Interior 1.5 Mil Prime Coat	2.18	
For Up To 100, Add	1.53	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
09 97 13 24-0030 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0031 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.36	
For Up To 100, Add	1.42	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.30	
09 97 13 24-0032 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.83	
For Up To 100, Add	1.02	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
09 97 13 24-0033 SF Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.34	
For Up To 100, Add	2.91	
For >100 To 250, Add	1.37	
For >250 To 500, Add	0.59	
09 97 13 24-0034 SF Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.76	
For Up To 100, Add	1.06	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
09 97 13 24-0035 SF Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.37	
For Up To 100, Add	0.77	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
09 97 13 24-0036 SF Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.25	
For Up To 100, Add	2.18	
For >100 To 250, Add	1.03	
For >250 To 500, Add	0.44	
09 97 13 24-0037 SF Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.46	
For Up To 100, Add	2.25	
For >100 To 250, Add	1.07	
For >250 To 500, Add	0.46	
09 97 13 24-0038 SF Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.61	
For Up To 100, Add	1.61	
For >100 To 250, Add	0.77	
For >250 To 500, Add	0.33	
09 97 13 24-0039 SF Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	6.69	
For Up To 100, Add	4.67	
For >100 To 250, Add	2.20	
For >250 To 500, Add	0.95	
09 97 13 24-0040 SF Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.60	
For Up To 100, Add	1.69	
For >100 To 250, Add	0.80	
For >250 To 500, Add	0.35	
09 97 13 24-0041 SF Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.96	
For Up To 100, Add	1.21	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
09 97 13 24-0042	SF	Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	5.01		
		For Up To 100, Add		3.50	
		For >100 To 250, Add		1.65	
		For >250 To 500, Add		0.71	
09 97 13 24-0043 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0044	SF	Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.09		
		For Up To 100, Add		1.32	
		For >100 To 250, Add		0.63	
		For >250 To 500, Add		0.27	
09 97 13 24-0045	SF	Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.77		
		For Up To 100, Add		1.08	
		For >100 To 250, Add		0.51	
		For >250 To 500, Add		0.22	
09 97 13 24-0046	SF	Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.49		
		For Up To 100, Add		3.12	
		For >100 To 250, Add		1.47	
		For >250 To 500, Add		0.63	
09 97 13 24-0047	SF	Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.34		
		For Up To 100, Add		0.84	
		For >100 To 250, Add		0.40	
		For >250 To 500, Add		0.17	
09 97 13 24-0048	SF	Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.14		
		For Up To 100, Add		0.69	
		For >100 To 250, Add		0.33	
		For >250 To 500, Add		0.14	
09 97 13 24-0049	SF	Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	2.87		
		For Up To 100, Add		1.99	
		For >100 To 250, Add		0.94	
		For >250 To 500, Add		0.40	
09 97 13 24-0050	SF	Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.90		
		For Up To 100, Add		1.92	
		For >100 To 250, Add		0.91	
		For >250 To 500, Add		0.39	
09 97 13 24-0051	SF	Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.43		
		For Up To 100, Add		1.57	
		For >100 To 250, Add		0.75	
		For >250 To 500, Add		0.32	
09 97 13 24-0052	SF	Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	6.89		
		For Up To 100, Add		5.01	
		For >100 To 250, Add		2.34	
		For >250 To 500, Add		1.01	
09 97 13 24-0053	SF	Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.85		
		For Up To 100, Add		1.23	
		For >100 To 250, Add		0.58	
		For >250 To 500, Add		0.25	
09 97 13 24-0054	SF	Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.56		
		For Up To 100, Add		1.01	
		For >100 To 250, Add		0.48	
		For >250 To 500, Add		0.21	
09 97 13 24-0055	SF	Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	4.51		
		For Up To 100, Add		3.22	
		For >100 To 250, Add		1.51	
		For >250 To 500, Add		0.65	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0057	SF	Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.04		
		For Up To 100, Add		1.58	
		For >100 To 250, Add		0.77	
		For >250 To 500, Add		0.34	
09 97 13 24-0058	SF	Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.63		
		For Up To 100, Add		1.28	
		For >100 To 250, Add		0.63	
		For >250 To 500, Add		0.28	
09 97 13 24-0059	SF	Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.12		
		For Up To 100, Add		1.10	
		For >100 To 250, Add		0.54	
		For >250 To 500, Add		0.24	
09 97 13 24-0060	SF	Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.83		
		For Up To 100, Add		0.89	
		For >100 To 250, Add		0.44	
		For >250 To 500, Add		0.19	
09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0062	SF	Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.37		
		For Up To 100, Add		1.63	
		For >100 To 250, Add		0.81	
		For >250 To 500, Add		0.36	



		Finishes	09	2
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0063 SF Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.96	
For Up To 100, Add	1.33	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.30	
09 97 13 24-0064 SF Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.76	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
09 97 13 24-0065 SF Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.42	
For Up To 100, Add	1.08	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats		
For Tanks (09 97 13 24-0022)		
09 97 13 24-0067 SF Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	8.05	
For Up To 100, Add	4.34	
For >100 To 250, Add	2.11	
For >250 To 500, Add	0.92	
09 97 13 24-0068 SF Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	7.42	
For Up To 100, Add	3.87	
For >100 To 250, Add	1.89	
For >250 To 500, Add	0.83	
09 97 13 24-0069 SF Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	12.22	
For Up To 100, Add	7.47	
For >100 To 250, Add	3.57	
For >250 To 500, Add	1.55	
09 97 13 24-0070 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0071 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.22	
For Up To 100, Add	2.03	
For >100 To 250, Add	1.00	
For >250 To 500, Add	0.44	
09 97 13 24-0072 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.77	
For Up To 100, Add	1.69	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.38	
09 97 13 24-0073 SF Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	6.28	
For Up To 100, Add	3.58	
For >100 To 250, Add	1.73	
For >250 To 500, Add	0.75	
09 97 13 24-0074 SF Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats	3.34	
For Up To 100, Add	1.61	
For >100 To 250, Add	0.80	
For >250 To 500, Add	0.35	
09 97 13 24-0075 SF Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats	2.98	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.30	
09 97 13 24-0076 SF Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats	4.95	
For Up To 100, Add	2.82	
For >100 To 250, Add	1.36	
For >250 To 500, Add	0.59	
09 97 13 24-0077 Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0078 SF Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	3.78	
For Up To 100, Add	2.19	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.46	
09 97 13 24-0079 SF Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	3.15	
For Up To 100, Add	1.72	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.37	
09 97 13 24-0080 SF Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats	4.83	
For Up To 100, Add	2.98	
For >100 To 250, Add	1.42	
For >250 To 500, Add	0.62	
09 97 13 24-0081 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0082 SF Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	2.62	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.31	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0083	SF	Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.41	
		For Up To 100, Add	1.30	
		For >100 To 250, Add	0.63	
		For >250 To 500, Add	0.28	
09 97 13 24-0084	SF	Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.97	
		For Up To 100, Add	2.47	
		For >100 To 250, Add	1.18	
		For >250 To 500, Add	0.51	
09 97 13 24-0085		Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)		
09 97 13 24-0086	SF	Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	5.75	
		For Up To 100, Add	3.36	
		For >100 To 250, Add	1.62	
		For >250 To 500, Add	0.70	
09 97 13 24-0087	SF	Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	3.51	
		For Up To 100, Add	1.77	
		For >100 To 250, Add	0.87	
		For >250 To 500, Add	0.38	
09 97 13 24-0088		One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0089	SF	Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.69	
		For Up To 100, Add	0.76	
		For >100 To 250, Add	0.38	
		For >250 To 500, Add	0.17	
09 97 13 24-0090	SF	Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.64	
		For Up To 100, Add	0.72	
		For >100 To 250, Add	0.36	
		For >250 To 500, Add	0.16	
09 97 13 24-0091	SF	Spray Tank Interior One 3 Mil High Zinc Silicate Coat.....	2.63	
		For Up To 100, Add	1.46	
		For >100 To 250, Add	0.71	
		For >250 To 500, Add	0.31	
09 97 13 24-0092		Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022)		
		Note: Installed over existing primer.		
09 97 13 24-0093	SF	Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.76	
		For Up To 100, Add	1.48	
		For >100 To 250, Add	0.72	
		For >250 To 500, Add	0.32	
09 97 13 24-0094	SF	Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.45	
		For Up To 100, Add	1.25	
		For >100 To 250, Add	0.61	
		For >250 To 500, Add	0.27	
09 97 13 24-0095	SF	Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats.....	3.80	
		For Up To 100, Add	2.26	
		For >100 To 250, Add	1.09	
		For >250 To 500, Add	0.47	
09 97 13 24-0096		One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0097	SF	Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	9.95	
		For Up To 100, Add	6.25	
		For >100 To 250, Add	2.98	
		For >250 To 500, Add	1.29	
09 97 26		Cementitious Coatings (09 97)		
09 97 26 13		Interior Cementitious Coatings (09 97 26)		
09 97 26 13-0001		Ceramic-Like Glazed Coating (09 97 26 13)		
09 97 26 13-0002		Ceramic-Like Glazed Coating, Cementitious (09 97 26 13-0001)		
09 97 26 13-0003	SF	Ceramic-like Glazed Coating. - Cementitious.....	3.36	
09 97 26 13-0004		Ceramic-Like Glazed Coating, Resin Base (09 97 26 13-0001)		
09 97 26 13-0005	SF	Ceramic-like Glazed Coating - Resin.....	2.87	
09 97 63		Special Coatings and Protection Systems (09 97)		
09 97 63 00-0001		Acrylic Glazed Coating (09 97 63)		
09 97 63 00-0002	SF	Acrylic Glazed Coating.....	2.23	



		Finishes	09	2
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST

END OF SECTION 09

09	09	Finishes
	09 90	Painting and Coating
	09 97	Special Coatings



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Specialties			10
Information Specialties			10 10
Signage			10 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

10 Specialties

10 10 Information Specialties ⁽¹⁰⁾

10 14 Signage ^(10 10)

Note: Where required, signage excludes electrical connection, disconnect, or terminations unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection wiring, 26 05 83 00-0130 for terminations.

10 14 53 Traffic Signage ^(10 14)

10 14 53 11 Traffic Signage ^(10 14 53)

10 14 53 11-0001 Traffic Signs (Monterey County) ^(10 14 53 11)

Note: Excludes posts.

10 14 53 11-0002	EA	Roadside Sign-One Post (Monterey County).....	479.92	29.43
10 14 53 11-0003	EA	Install Roadside Sign Panel On Existing Post (Monterey County).....	215.57	

10 14 53 11-0004 Solar Powered, Aluminum, Polycarbonate, LED Radar Speed Display Sign

^(10 14 53 11)

Note: Excludes posts.

10 14 53 11-0005	EA	29" x 23" Sign Size, Solar Powered, Aluminum, Polycarbonate, LED Radar Speed Display Sign	5,304.61	21.62

10 14 53 11-0006 Traffic Signs ^(10 14 53 11)

10 14 53 11-0007 Reflectorized Stop Signs And Other Traffic Signs ^(10 14 53 11-0006)

Note: Excludes posts.

10 14 53 11-0008 Aluminum Engineer Grade Stop Signs ^(10 14 53 11-0007)

10 14 53 11-0009	EA	18" x 18" Aluminum Engineer Grade Stop Sign	88.54	21.62
		For Hi-Intensity Grade, Add	13.59	
		For Diamond Grade, Add	25.83	
10 14 53 11-0010	EA	18" x 24" Aluminum Engineer Grade Stop Sign	104.88	22.86
		For Hi-Intensity Grade, Add	17.78	
		For Diamond Grade, Add	33.77	
10 14 53 11-0011	EA	24" x 24" Aluminum Engineer Grade Stop Sign	114.26	24.02
		For Hi-Intensity Grade, Add	27.15	
		For Diamond Grade, Add	43.04	
10 14 53 11-0012	EA	30" x 30" Aluminum Engineer Grade Stop Sign	135.25	25.26
		For Hi-Intensity Grade, Add	10.18	
		For Diamond Grade, Add	55.13	
10 14 53 11-0013	EA	36" x 36" Aluminum Engineer Grade Stop Sign	188.77	26.42
		For Hi-Intensity Grade, Add	29.90	
		For Diamond Grade, Add	93.79	

10 14 53 11-0014 Steel Engineer Grade Stop Signs ^(10 14 53 11-0007)

10 14 53 11-0015	EA	18" x 18" Reflective Steel Stop Sign, Engineering Grade	139.32	21.62
10 14 53 11-0016	EA	18" x 24" Reflective Steel Stop Sign, Engineering Grade	176.53	22.86
10 14 53 11-0017	EA	24" x 24" Reflective Steel Stop Sign, Engineering Grade	187.43	24.02
10 14 53 11-0018	EA	30" x 30" Reflective Steel Stop Sign, Engineering Grade	272.19	25.26
10 14 53 11-0019	EA	36" x 36" Reflective Steel Stop Sign, Engineering Grade	348.54	26.42

10 14 53 11-0020 Polyethylene Engineer Grade Stop Signs ^(10 14 53 11-0007)

10 14 53 11-0021	EA	18" x 18" Reflective Polyethylene Stop Sign, Engineering Grade	142.89	21.62
10 14 53 11-0022	EA	18" x 24" Reflective Polyethylene Stop Sign, Engineering Grade	185.65	22.86
10 14 53 11-0023	EA	24" x 24" Reflective Polyethylene Stop Sign, Engineering Grade	205.39	24.02
10 14 53 11-0024	EA	30" x 30" Reflective Polyethylene Stop Sign, Engineering Grade	273.01	25.26

10 14 53 11-0025 Other Reflectorized Traffic Signs ^(10 14 53 11-0007)

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

10 14 53 11-0026 Aluminum Engineer Grade Traffic Signs ^(10 14 53 11-0025)

10 14 53 11-0027	EA	6" x 12" Aluminum Engineer Grade Traffic Sign	49.65	19.21
		For Hi-Intensity Grade, Add	3.37	
		For Diamond Grade, Add	6.40	
10 14 53 11-0028	EA	6" x 18" Aluminum Engineer Grade Traffic Sign	55.27	19.21
		For Hi-Intensity Grade, Add	5.05	
		For Diamond Grade, Add	9.60	
10 14 53 11-0029	EA	9" x 12" Aluminum Engineer Grade Traffic Sign	55.27	19.21
		For Hi-Intensity Grade, Add	5.05	
		For Diamond Grade, Add	9.60	
10 14 53 11-0030	EA	9" x 15" Aluminum Engineer Grade Traffic Sign	59.47	19.21
		For Hi-Intensity Grade, Add	6.31	
		For Diamond Grade, Add	11.99	
10 14 53 11-0031	EA	9" x 18" Aluminum Engineer Grade Traffic Sign	63.68	19.21
		For Hi-Intensity Grade, Add	7.58	
		For Diamond Grade, Add	14.39	

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0032	EA	9" x 24" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	74.50 10.10 19.19	20.41
10 14 53 11-0033	EA	9" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	108.17 20.20 38.38	20.41
10 14 53 11-0034	EA	12" x 12" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	60.88 6.74 12.80	19.21
10 14 53 11-0035	EA	12" x 18" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	74.50 10.10 19.19	20.41
10 14 53 11-0036	EA	12" x 24" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	85.73 13.47 25.59	20.41
10 14 53 11-0037	EA	12" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	96.95 16.84 31.99	20.41
10 14 53 11-0038	EA	12" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	108.17 20.20 38.38	20.41
10 14 53 11-0039	EA	18" x 18" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	91.34 15.15 28.79	20.41
10 14 53 11-0040	EA	18" x 24" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	108.17 20.20 38.38	20.41
10 14 53 11-0041	EA	18" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	127.41 25.25 47.98	21.62
10 14 53 11-0042	EA	18" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	144.25 30.31 57.58	21.62
10 14 53 11-0043	EA	18" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	187.53 40.41 76.77	26.42
10 14 53 11-0044	EA	18" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	204.36 45.46 86.37	26.42
10 14 53 11-0045	EA	24" x 24" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	133.02 26.94 51.18	21.62
10 14 53 11-0046	EA	24" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	155.47 33.67 63.98	21.62
10 14 53 11-0047	EA	24" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	177.92 40.41 76.77	21.62
10 14 53 11-0048	EA	24" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	209.97 47.14 89.56	26.42
10 14 53 11-0049	EA	24" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	232.42 53.87 102.36	26.42
10 14 53 11-0050	EA	24" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	254.87 60.61 115.16	26.42
10 14 53 11-0051	EA	24" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	277.32 67.34 127.95	26.42
10 14 53 11-0052	EA	30" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	183.53 42.09 79.97	21.62
10 14 53 11-0053	EA	30" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	221.20 50.51 95.97	26.42
10 14 53 11-0054	EA	30" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	249.26 58.93 111.96	26.42
10 14 53 11-0055	EA	30" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	286.92 67.34 127.95	31.22
10 14 53 11-0056	EA	30" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	352.64 84.18 159.94	36.03
10 14 53 11-0057	EA	36" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	254.87 60.61 115.16	26.42
10 14 53 11-0058	EA	36" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	298.14 70.71 134.35	31.22
10 14 53 11-0059	EA	36" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i> <i>For Diamond Grade, Add</i>	341.41 80.81 153.54	36.03



Specialties			10
Information Specialties			10 10
Signage			10 14

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0060 EA 36" x 54" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	375.09 90.92 172.74	36.03
10 14 53 11-0061 EA 36" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	418.37 101.02 191.93	40.83
10 14 53 11-0062 EA 36" x 73" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	500.93 122.90 233.51	45.63
10 14 53 11-0063 EA 36" x 78" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	528.99 131.32 249.51	45.63
10 14 53 11-0064 EA 36" x 108" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	711.76 181.63 345.47	52.84
10 14 53 11-0065 EA 42" x 42" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	347.03 82.50 156.74	36.03
10 14 53 11-0066 EA 48" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	440.82 107.75 204.73	40.83
10 14 53 11-0067 EA 48" x 54" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	495.32 121.22 230.31	45.63
10 14 53 11-0068 EA 48" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	540.22 134.69 255.91	45.63
10 14 53 11-0069 EA 48" x 66" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	599.52 148.16 281.49	52.84
10 14 53 11-0070 EA 48" x 72" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	644.42 161.63 307.09	52.84
10 14 53 11-0071 EA 48" x 84" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	743.82 188.56 358.27	57.63
10 14 53 11-0072 EA 48" x 96" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	833.61 215.50 409.45	57.63
10 14 53 11-0073 EA 48" x 102" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	878.51 228.97 435.04	57.63
10 14 53 11-0074 EA 48" x 108" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	928.20 242.44 460.63	60.03
10 14 53 11-0075 EA 60" x 72" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	788.72 202.03 383.86	57.63
10 14 53 11-0076 EA 72" x 144" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	1,769.94 484.87 921.26	76.85
10 14 53 11-0077 EA 78" x 96" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	1,287.37 350.19 665.36	60.03
10 14 53 11-0078 Polyethylene Engineer Grade Traffic Signs (10 14 53 11-0025)		
10 14 53 11-0079 EA 6" x 12" Reflective Polyethylene Traffic Sign	98.32	18.06
10 14 53 11-0080 EA 12" x 12" Reflective Polyethylene Traffic Sign	112.76	19.21
10 14 53 11-0081 EA 12" x 18" Reflective Polyethylene Traffic Sign	120.84	20.46
10 14 53 11-0082 EA 18" x 18" Reflective Polyethylene Traffic Sign	148.17	21.62
10 14 53 11-0083 EA 18" x 24" Reflective Polyethylene Traffic Sign	185.65	22.86
10 14 53 11-0084 EA 24" x 24" Reflective Polyethylene Traffic Sign	209.99	22.86
10 14 53 11-0085 Non-Reflectorized Traffic Signs (10 14 53 11-0006)		
Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.		
10 14 53 11-0086 Steel Non-Reflectorized Traffic Signs (10 14 53 11-0085)		
10 14 53 11-0087 EA 6" x 12" Steel Non-Reflectorized Traffic Sign	47.47	19.21
10 14 53 11-0088 EA 6" x 18" Steel Non-Reflectorized Traffic Sign	51.99	19.21
10 14 53 11-0089 EA 9" x 12" Steel Non-Reflectorized Traffic Sign	51.99	19.21
10 14 53 11-0090 EA 9" x 15" Steel Non-Reflectorized Traffic Sign	55.38	19.21
10 14 53 11-0091 EA 9" x 18" Steel Non-Reflectorized Traffic Sign	58.77	19.21
10 14 53 11-0092 EA 9" x 24" Steel Non-Reflectorized Traffic Sign	67.95	20.41
10 14 53 11-0093 EA 9" x 48" Steel Non-Reflectorized Traffic Sign	95.06	20.41
10 14 53 11-0094 EA 12" x 12" Steel Non-Reflectorized Traffic Sign	56.51	19.21
10 14 53 11-0095 EA 12" x 18" Steel Non-Reflectorized Traffic Sign	67.95	20.41
10 14 53 11-0096 EA 12" x 24" Steel Non-Reflectorized Traffic Sign	76.99	20.41
10 14 53 11-0097 EA 12" x 30" Steel Non-Reflectorized Traffic Sign	86.02	20.41
10 14 53 11-0098 EA 12" x 36" Steel Non-Reflectorized Traffic Sign	95.06	20.41
10 14 53 11-0099 EA 18" x 18" Steel Non-Reflectorized Traffic Sign	81.50	20.41
10 14 53 11-0100 EA 18" x 24" Steel Non-Reflectorized Traffic Sign	95.06	20.41

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

10 14 53 11-0101	EA	18" x 30" Steel Non-Reflectorized Traffic Sign	111.02	21.62
10 14 53 11-0102	EA	18" x 36" Steel Non-Reflectorized Traffic Sign	124.58	21.62
10 14 53 11-0103	EA	18" x 48" Steel Non-Reflectorized Traffic Sign	161.31	26.42
10 14 53 11-0104	EA	18" x 54" Steel Non-Reflectorized Traffic Sign	174.86	26.42
10 14 53 11-0105	EA	24" x 24" Steel Non-Reflectorized Traffic Sign	115.54	21.62
10 14 53 11-0106	EA	24" x 30" Steel Non-Reflectorized Traffic Sign	133.62	21.62
10 14 53 11-0107	EA	24" x 36" Steel Non-Reflectorized Traffic Sign	151.70	21.62
10 14 53 11-0108	EA	24" x 42" Steel Non-Reflectorized Traffic Sign	179.38	26.42
10 14 53 11-0109	EA	24" x 48" Steel Non-Reflectorized Traffic Sign	197.46	26.42
10 14 53 11-0110	EA	24" x 54" Steel Non-Reflectorized Traffic Sign	215.54	26.42
10 14 53 11-0111	EA	24" x 60" Steel Non-Reflectorized Traffic Sign	233.62	26.42
10 14 53 11-0112	EA	30" x 30" Steel Non-Reflectorized Traffic Sign	156.22	21.62
10 14 53 11-0113	EA	30" x 36" Steel Non-Reflectorized Traffic Sign	188.42	26.42
10 14 53 11-0114	EA	30" x 42" Steel Non-Reflectorized Traffic Sign	211.02	26.42
10 14 53 11-0115	EA	30" x 48" Steel Non-Reflectorized Traffic Sign	243.22	31.22
10 14 53 11-0116	EA	30" x 60" Steel Non-Reflectorized Traffic Sign	298.01	36.03
10 14 53 11-0117	EA	36" x 36" Steel Non-Reflectorized Traffic Sign	215.54	26.42
10 14 53 11-0118	EA	36" x 42" Steel Non-Reflectorized Traffic Sign	252.26	31.22
10 14 53 11-0119	EA	36" x 48" Steel Non-Reflectorized Traffic Sign	288.97	36.03
10 14 53 11-0120	EA	36" x 54" Steel Non-Reflectorized Traffic Sign	316.09	36.03
10 14 53 11-0121	EA	36" x 60" Steel Non-Reflectorized Traffic Sign	352.81	40.83
10 14 53 11-0122	EA	36" x 73" Steel Non-Reflectorized Traffic Sign	421.18	45.63
10 14 53 11-0123	EA	36" x 78" Steel Non-Reflectorized Traffic Sign	443.77	45.63
10 14 53 11-0124	EA	36" x 108" Steel Non-Reflectorized Traffic Sign	593.77	52.84
10 14 53 11-0125	EA	42" x 42" Steel Non-Reflectorized Traffic Sign	293.49	36.03
10 14 53 11-0126	EA	48" x 48" Steel Non-Reflectorized Traffic Sign	370.89	40.83
10 14 53 11-0127	EA	48" x 54" Steel Non-Reflectorized Traffic Sign	416.66	45.63
10 14 53 11-0128	EA	48" x 60" Steel Non-Reflectorized Traffic Sign	452.81	45.63
10 14 53 11-0129	EA	48" x 66" Steel Non-Reflectorized Traffic Sign	503.38	52.84
10 14 53 11-0130	EA	48" x 72" Steel Non-Reflectorized Traffic Sign	539.53	52.84
10 14 53 11-0131	EA	48" x 84" Steel Non-Reflectorized Traffic Sign	621.45	57.63
10 14 53 11-0132	EA	48" x 96" Steel Non-Reflectorized Traffic Sign	693.76	57.63
10 14 53 11-0133	EA	48" x 102" Steel Non-Reflectorized Traffic Sign	729.92	57.63
10 14 53 11-0134	EA	48" x 108" Steel Non-Reflectorized Traffic Sign	770.88	60.03
10 14 53 11-0135	EA	60" x 72" Steel Non-Reflectorized Traffic Sign	657.61	57.63
10 14 53 11-0136	EA	72" x 144" Steel Non-Reflectorized Traffic Sign	1,455.29	76.85
10 14 53 11-0137	EA	78" x 96" Steel Non-Reflectorized Traffic Sign	1,060.12	60.03

10 14 53 11-0138 Aluminum Non-Reflectorized Traffic Signs (10 14 53 11-0085)

10 14 53 11-0139	EA	6" x 12" Aluminum Non-Reflectorized Traffic Sign	47.84	19.21
10 14 53 11-0140	EA	6" x 18" Aluminum Non-Reflectorized Traffic Sign	52.54	19.21
10 14 53 11-0141	EA	9" x 12" Aluminum Non-Reflectorized Traffic Sign	52.54	19.21
10 14 53 11-0142	EA	9" x 15" Aluminum Non-Reflectorized Traffic Sign	56.07	19.21
10 14 53 11-0143	EA	9" x 18" Aluminum Non-Reflectorized Traffic Sign	59.60	19.21
10 14 53 11-0144	EA	9" x 24" Aluminum Non-Reflectorized Traffic Sign	69.05	20.41
10 14 53 11-0145	EA	9" x 48" Aluminum Non-Reflectorized Traffic Sign	97.27	20.41
10 14 53 11-0146	EA	12" x 12" Aluminum Non-Reflectorized Traffic Sign	57.24	19.21
10 14 53 11-0147	EA	12" x 18" Aluminum Non-Reflectorized Traffic Sign	69.05	20.41
10 14 53 11-0148	EA	12" x 24" Aluminum Non-Reflectorized Traffic Sign	78.46	20.41
10 14 53 11-0149	EA	12" x 30" Aluminum Non-Reflectorized Traffic Sign	87.87	20.41
10 14 53 11-0150	EA	12" x 36" Aluminum Non-Reflectorized Traffic Sign	97.27	20.41
10 14 53 11-0151	EA	18" x 18" Aluminum Non-Reflectorized Traffic Sign	83.16	20.41
10 14 53 11-0152	EA	18" x 24" Aluminum Non-Reflectorized Traffic Sign	97.27	20.41
10 14 53 11-0153	EA	18" x 30" Aluminum Non-Reflectorized Traffic Sign	113.78	21.62
10 14 53 11-0154	EA	18" x 36" Aluminum Non-Reflectorized Traffic Sign	127.89	21.62
10 14 53 11-0155	EA	18" x 48" Aluminum Non-Reflectorized Traffic Sign	165.73	26.42
10 14 53 11-0156	EA	18" x 54" Aluminum Non-Reflectorized Traffic Sign	179.84	26.42
10 14 53 11-0157	EA	24" x 24" Aluminum Non-Reflectorized Traffic Sign	118.49	21.62
10 14 53 11-0158	EA	24" x 30" Aluminum Non-Reflectorized Traffic Sign	137.30	21.62
10 14 53 11-0159	EA	24" x 36" Aluminum Non-Reflectorized Traffic Sign	156.12	21.62
10 14 53 11-0160	EA	24" x 42" Aluminum Non-Reflectorized Traffic Sign	184.54	26.42
10 14 53 11-0161	EA	24" x 48" Aluminum Non-Reflectorized Traffic Sign	203.35	26.42
10 14 53 11-0162	EA	24" x 54" Aluminum Non-Reflectorized Traffic Sign	222.17	26.42
10 14 53 11-0163	EA	24" x 60" Aluminum Non-Reflectorized Traffic Sign	240.98	26.42
10 14 53 11-0164	EA	30" x 30" Aluminum Non-Reflectorized Traffic Sign	160.82	21.62
10 14 53 11-0165	EA	30" x 36" Aluminum Non-Reflectorized Traffic Sign	193.95	26.42
10 14 53 11-0166	EA	30" x 42" Aluminum Non-Reflectorized Traffic Sign	217.47	26.42
10 14 53 11-0167	EA	30" x 48" Aluminum Non-Reflectorized Traffic Sign	250.58	31.22
10 14 53 11-0168	EA	30" x 60" Aluminum Non-Reflectorized Traffic Sign	307.22	36.03
10 14 53 11-0169	EA	36" x 36" Aluminum Non-Reflectorized Traffic Sign	222.17	26.42
10 14 53 11-0170	EA	36" x 42" Aluminum Non-Reflectorized Traffic Sign	259.99	31.22
10 14 53 11-0171	EA	36" x 48" Aluminum Non-Reflectorized Traffic Sign	297.81	36.03
10 14 53 11-0172	EA	36" x 54" Aluminum Non-Reflectorized Traffic Sign	326.03	36.03
10 14 53 11-0173	EA	36" x 60" Aluminum Non-Reflectorized Traffic Sign	363.87	40.83
10 14 53 11-0174	EA	36" x 73" Aluminum Non-Reflectorized Traffic Sign	434.62	45.63
10 14 53 11-0175	EA	36" x 78" Aluminum Non-Reflectorized Traffic Sign	458.14	45.63
10 14 53 11-0176	EA	36" x 108" Aluminum Non-Reflectorized Traffic Sign	613.66	52.84
10 14 53 11-0177	EA	42" x 42" Aluminum Non-Reflectorized Traffic Sign	302.52	36.03
10 14 53 11-0178	EA	48" x 48" Aluminum Non-Reflectorized Traffic Sign	382.68	40.83
10 14 53 11-0179	EA	48" x 54" Aluminum Non-Reflectorized Traffic Sign	429.92	45.63



Specialties			10
Information Specialties			10 10
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0180	EA	48" x 60" Aluminum Non-Reflectorized Traffic Sign.....	467.55	45.63
10 14 53 11-0181	EA	48" x 66" Aluminum Non-Reflectorized Traffic Sign.....	519.59	52.84
10 14 53 11-0182	EA	48" x 72" Aluminum Non-Reflectorized Traffic Sign.....	557.21	52.84
10 14 53 11-0183	EA	48" x 84" Aluminum Non-Reflectorized Traffic Sign.....	642.08	57.63
10 14 53 11-0184	EA	48" x 96" Aluminum Non-Reflectorized Traffic Sign.....	717.34	57.63
10 14 53 11-0185	EA	48" x 102" Aluminum Non-Reflectorized Traffic Sign.....	754.97	57.63
10 14 53 11-0186	EA	48" x 108" Aluminum Non-Reflectorized Traffic Sign.....	797.40	60.03
10 14 53 11-0187	EA	60" x 72" Aluminum Non-Reflectorized Traffic Sign.....	679.71	57.63
10 14 53 11-0188	EA	72" x 144" Aluminum Non-Reflectorized Traffic Sign.....	1,508.33	76.85
10 14 53 11-0189	EA	78" x 96" Aluminum Non-Reflectorized Traffic Sign.....	1,098.43	60.03
10 14 53 11-0190 Polyethylene Non-Reflectorized Traffic Signs (10 14 53 11-0085)				
10 14 53 11-0191	EA	6" x 12" Non-Reflective Polyethylene Traffic Sign	80.75	18.06
10 14 53 11-0192	EA	12" x 12" Non-Reflective Polyethylene Traffic Sign	88.68	19.21
10 14 53 11-0193	EA	12" x 18" Non-Reflective Polyethylene Traffic Sign	95.73	20.46
10 14 53 11-0194	EA	18" x 18" Non-Reflective Polyethylene Traffic Sign	130.21	21.62
10 14 53 11-0195	EA	18" x 24" Non-Reflective Polyethylene Traffic Sign	139.82	22.86
10 14 53 11-0196	EA	24" x 24" Non-Reflective Polyethylene Traffic Sign	164.20	24.02
10 14 53 11-0197 Signs For Overhead Sign Structures (10 14 53 11-0006)				
Note: Including horizontal Z-bars.				
10 14 53 11-0198	SF	From 30 To 360 SF Signs For Overhead Sign Structures	25.00	
		For Over 10' High, Add	13.00	
10 14 53 11-0199	VLF	Vertical Sign Hangers For Overhead Sign Structures, Per Hanger	32.50	
Note: Includes U-bolts, vertical aluminum Z-bars, clip angles and stainless steel hardware.				
10 14 53 11-0200 Flashing Beacon (10 14 53 11-0006)				
10 14 53 11-0201	EA	8" Diameter LED Flashing Beacon	1,435.88	217.24
Note: Excludes sign and post				
10 14 53 11-0202 Rectangular Rapid Flashing Beacons (RRFB) (10 14 53 11-0006)				
10 14 53 11-0203	EA	2.5"(h) x 17.5"(w) x 2.75"(d), Solar Powered, Single, LED Rectangular Rapid Flashing Beacon (RRFB)	1,749.35	217.24
Note: Includes standard push button, 20 watt solar panel, 12v/22 AH battery, lockable control cabinet. Excludes sign and post				
10 14 53 11-0204	EA	3.5"(h) x 20"(w) x 3"(d) LED Rectangular Rapid Flashing Beacons (RRFB), Solar Powered, Back To Back.....	3,695.25	217.24
Note: Includes standard push button, 20 watt solar panel, 12v/22 AH battery, lockable control cabinet. Excludes sign and post				
10 14 53 11-0205 Aluminum Street Signs (10 14 53 11-0006)				
Note: Excludes posts.				
10 14 53 11-0206 Aluminum Engineer Grade Street Signs (10 14 53 11-0205)				
10 14 53 11-0207	EA	6" High, Aluminum Engineer Grade Street Sign	112.03	9.61
		For Diamond Grade, Add	52.91	
10 14 53 11-0208	EA	8" High, Aluminum Engineer Grade Street Sign	128.42	9.61
		For Diamond Grade, Add	62.25	
10 14 53 11-0209	EA	9" High, Aluminum Engineer Grade Street Sign	140.61	9.61
		For Diamond Grade, Add	69.20	
10 14 53 11-0210 Street Sign Accessories (10 14 53 11-0205)				
10 14 53 11-0211	EA	Single Bracket And Post Cap For Street Sign	31.94	4.80
10 14 53 11-0212	EA	Double Bracket And Post Cap For Street Sign	31.94	4.80
10 14 53 11-0213 Sign Posts (10 14 53 11-0006)				
Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill., 32 31 13 13-0019 for concrete fill.				
10 14 53 11-0214 U-Channel Sign Posts (10 14 53 11-0213)				
Note: Excludes digging and concrete.				
10 14 53 11-0215 Baked Enamel U-Channel Sign Posts (10 14 53 11-0214)				
10 14 53 11-0216	EA	3' To 4' Baked Enamel U-Channel Sign Post Base	77.98	19.62
10 14 53 11-0217	EA	6' Baked Enamel U-Channel Sign Post	103.53	24.53
10 14 53 11-0218	EA	7' Baked Enamel U-Channel Sign Post	123.47	29.43
10 14 53 11-0219	EA	8' Baked Enamel U-Channel Sign Post	144.69	34.34
10 14 53 11-0220	EA	10' Baked Enamel U-Channel Sign Post	174.34	41.70
10 14 53 11-0221	EA	12' Baked Enamel U-Channel Sign Post	180.55	41.70
10 14 53 11-0222 Galvanized Steel U-Channel Sign Posts (10 14 53 11-0214)				
10 14 53 11-0223	EA	3' To 4' Galvanized Steel U-Channel Sign Post Base.....	85.96	19.62
10 14 53 11-0224	EA	6' Galvanized Steel U-Channel Sign Post.....	116.20	24.53
10 14 53 11-0225	EA	7' Galvanized Steel U-Channel Sign Post.....	152.13	29.43
10 14 53 11-0226	EA	8' Galvanized Steel U-Channel Sign Post.....	176.38	34.34
10 14 53 11-0227	EA	10' Galvanized Steel U-Channel Sign Post.....	197.40	41.70

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0228 EA 12' Galvanized Steel U-Channel Sign Post.....	200.61	41.70
10 14 53 11-0229 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 11-0214)		
10 14 53 11-0230 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base.....	76.10	19.62
10 14 53 11-0231 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post.....	99.43	24.53
10 14 53 11-0232 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post.....	118.52	29.43
10 14 53 11-0233 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post.....	138.80	34.34
10 14 53 11-0234 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post.....	163.65	41.70
10 14 53 11-0235 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post.....	174.21	41.70
10 14 53 11-0236 Tubular Sign Posts (10 14 53 11-0213)		
Note: Excludes digging and concrete.		
10 14 53 11-0237 2-3/8" Diameter, Galvanized Steel Tubular Sign Post (10 14 53 11-0236)		
10 14 53 11-0238 EA 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	117.51	24.53
10 14 53 11-0239 EA 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	139.12	29.43
10 14 53 11-0240 EA 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	164.76	34.34
10 14 53 11-0241 EA 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	214.74	41.70
10 14 53 11-0242 EA 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	236.50	41.70
10 14 53 11-0243 Square Sign Posts (10 14 53 11-0213)		
Note: Excludes digging and concrete.		
10 14 53 11-0244 Galvanized Steel Square Sign Posts (10 14 53 11-0243)		
10 14 53 11-0245 EA 3' To 4' Galvanized Steel Square Sign Post Base.....	87.74	19.62
10 14 53 11-0246 EA 6' Galvanized Steel Square Sign Post.....	146.22	24.53
10 14 53 11-0247 EA 7' Galvanized Steel Square Sign Post.....	170.80	29.43
10 14 53 11-0248 EA 8' Galvanized Steel Square Sign Post.....	199.23	34.34
10 14 53 11-0249 EA 10' Galvanized Steel Square Sign Post.....	243.51	41.70
10 14 53 11-0250 EA 12' Galvanized Steel Square Sign Post.....	258.70	41.70
10 14 53 11-0251 Other Sign Posts And Bases (10 14 53 11-0006)		
Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		
10 14 53 11-0252 2.5 Lb./FT Breakaway Sign Posts And Base Posts (10 14 53 11-0251)		
10 14 53 11-0253 Base Posts, 2.5 Lb./LF, For Breakaway Sign Posts (10 14 53 11-0252)		
10 14 53 11-0254 EA Base Post For 2.5 Lb./LF Breakaway Sign Post.....	100.45	24.02
10 14 53 11-0255 EA Lap Splice Hardware For 2.5 Lb./LF Breakaway Sign Post.....	62.03	19.21
10 14 53 11-0256 Breakaway Sign Posts, 2.5 Lb./LF (10 14 53 11-0252)		
10 14 53 11-0257 LF 2.5 Lb./LF Breakaway Sign Post.....	12.96	2.40
10 14 53 11-0258 4 Lb./FT Breakaway Sign Posts And Base Posts (10 14 53 11-0251)		
10 14 53 11-0259 Base Posts, 4 Lb./LF, For Breakaway Sign Posts (10 14 53 11-0258)		
10 14 53 11-0260 EA Base Post For 4 Lb./LF Breakaway Sign Post.....	105.20	28.82
10 14 53 11-0261 EA Lap Splice Hardware for 4 Lb./LF Breakaway Sign Post.....	62.03	19.21
10 14 53 11-0262 Breakaway Sign Posts, 4 Lb./LF (10 14 53 11-0258)		
10 14 53 11-0263 LF 4 Lb./LF Breakaway Sign Post.....	15.91	2.40
10 14 53 11-0264 Driven Sign Posts (10 14 53 11-0251)		
10 14 53 11-0265 Driven Posts, 2.5 Lb./LF (10 14 53 11-0264)		
10 14 53 11-0266 LF 2.5 Lb./LF Driven Post.....	13.93	3.37
10 14 53 11-0267 Driven Posts, 4 Lb./LF (10 14 53 11-0264)		
10 14 53 11-0268 LF 4 Lb./LF Driven Post.....	17.35	3.84
10 14 53 11-0269 Omni-Directional Breakaway System For Sign Posts And Light Poles (10 14 53 11-0251)		
10 14 53 11-0270 Omni-Directional Breakaway Systems For Signs (10 14 53 11-0269)		
Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, sleeve, all associated parts and drilling.		
10 14 53 11-0271 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	1,508.82	
10 14 53 11-0272 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	1,607.64	
10 14 53 11-0273 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo A14 And A16).....	1,102.16	
10 14 53 11-0274 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	965.34	
10 14 53 11-0275 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	1,094.56	
10 14 53 11-0276 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	1,041.35	



Specialties			10
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0277 EA Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....	1,128.76	
10 14 53 11-0278 Omni-Directional Breakaway Systems For Poles (10 14 53 11-0269) Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retrofitting existing poles.		
10 14 53 11-0279 EA Omni-Directional Breakaway System For Poles With 5/8" Couplings.....	508.96	
10 14 53 11-0280 EA Omni-Directional Breakaway System For Poles With 3/4" Couplings.....	533.58	
10 14 53 11-0281 EA Omni-Directional Breakaway System For Poles With 1" Couplings.....	554.12	
10 14 53 11-0282 EA Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....	841.43	
10 14 53 11-0283 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....	73.88	
10 14 53 11-0284 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20".....	98.51	
10 14 53 11-0285 Wood Posts (10 14 53 11-0251) Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
10 14 53 11-0286 LF 4" x 4" Pressure Treated Wood Sign Post.....	11.22	
10 14 53 11-0287 Sign Post Accessories (10 14 53 11-0006)		
10 14 53 11-0288 Sign Post Brackets (10 14 53 11-0287)		
10 14 53 11-0289 EA 2-3/8" Outside Diameter, Single Side Sign Bracket Set..... Note: Includes 2 single side signpost brackets	65.21	7.21
10 14 53 11-0290 EA 2-3/8" Outside Diameter, Double Side Sign Bracket Set..... Note: Includes 2 double side signpost brackets	85.07	12.01
10 14 53 11-0291 EA 4" To 12" Diameter, Buckle Bracket Set..... Note: Includes 2 stainless steel straps, 2 brackets and fastener hardware	78.04	9.61
10 14 53 11-0292 Sign Post Caps (10 14 53 11-0287)		
10 14 53 11-0293 EA 2-3/8" Diameter, Galvanized, Flat Traffic Sign Post Cap (EC-2).....	28.56	4.80
10 14 53 11-0294 Sign Post Replacement Bolts (10 14 53 11-0287)		
10 14 53 11-0295 EA Signage Fasteners Replacement..... Note: Includes two 5/16" x 2" long bolts, two 5/16" nuts And four 5/16" washers	18.69	
10 14 53 11-0296 Reflective Panels For "U" Channel Post (10 14 53 11-0287)		
10 14 53 11-0297 EA 3" x 72" Reflective Panel For "U-Channel" Post..... Note: Diamond grade panel including mounting hardware.	88.83	
10 14 53 11-0298 Removal Of Signs (10 14 53 11) Note: Includes structural supports and foundations.		
10 14 53 11-0299 EA >4 To 10 SF Sign Area, Sign Removal.....	192.12	
10 14 53 11-0300 EA >10 To 20 SF Sign Area, Sign Removal.....	461.10	
10 14 53 11-0301 EA >20 To 40 SF Sign Area, Sign Removal.....	691.66	
10 14 53 11-0302 EA >40 To 100 SF Sign Area, Sign Removal.....	1,197.36	
10 14 53 11-0303 Removal And Reinstallation Of Signs (10 14 53 11) Note: Includes structural supports and foundations		
10 14 53 11-0304 EA >4 To 10 SF Sign Area, Removal And Reinstallation Of Sign.....	295.16	
10 14 53 11-0305 EA >10 To 20 SF Sign Area, Removal And Reinstallation Of Sign.....	696.62	
10 14 53 11-0306 EA >20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign.....	1,041.71	
10 14 53 11-0307 EA >40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign.....	1,799.98	
10 14 53 11-0308 EA Removal And Reinstallation Of Street Sign On Post.....	110.47	
10 14 53 11-0309 EA Removal And Relocation Of Traffic Light..... Note: Excludes electrical hookup.	411.25	
10 80 Other Specialties (10)		
10 81 Pest Control Devices (10 80)		
10 81 13 Bird Control Devices (10 81)		
10 81 13 00-0001 Stainless Steel Spiked Bird Barrier (10 81 13) Note: Stainless steel spikes with flexible polycarbonate base.		
10 81 13 00-0002 LF 2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	11.39	1.15
10 81 13 00-0003 LF 4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	13.74	1.15
10 81 13 00-0004 LF 8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	20.24	1.15
10 81 13 00-0005 Polycarbonate Spiked Bird Barrier (10 81 13) Note: Polycarbonate spikes and base.		
10 81 13 00-0006 LF 3" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	10.53	1.15
10 81 13 00-0007 LF 5" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	12.75	1.15

10 Specialties**10 80 Other Specialties****10 81 Pest Control Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 81 13 00-0008	LF	8" Wide Polycarbonate Spikes And Base Bird Deterrent System	15.22	1.15	
10 81 13 00-0009		Spiked Gutter Or Girder Bird Barrier (10 81 13) Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.			
10 81 13 00-0010	LF	Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application	12.04	1.15	
10 81 13 00-0011		Coil Bird Barrier (10 81 13) Note: Stainless steel coil.			
10 81 13 00-0012	LF	4" Diameter Stainless Steel Coil Bird Deterrent System	8.54	1.15	
10 81 13 00-0013	LF	5" Diameter Stainless Steel Coil Bird Deterrent System	10.08	1.15	
10 81 13 00-0014		Spider Bird Barrier (10 81 13) Note: Stainless steel arms with various bases.			
10 81 13 00-0015	EA	2' Diameter Stainless Steel Spider Bird Deterrent System	150.93	1.15	
10 81 13 00-0016	EA	4' Diameter Stainless Steel Spider Bird Deterrent System	221.69	1.15	
10 81 13 00-0017	EA	8' Diameter Stainless Steel Spider Bird Deterrent System	278.84	1.15	
10 81 13 00-0018		Oriented Flexible Flame-resistant Netting (10 81 13) Note: Includes stainless steel rings and plastic ties.			
10 81 13 00-0019	SF	1/8" x 1/8" Mesh Flexible Polypropylene Netting	1.15	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0020	SF	1/4" x 1/4" Mesh Flexible Polypropylene Netting	1.10	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0021	SF	1/2" x 1/2" Mesh Flexible Polypropylene Netting	1.06	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0022	SF	3/4" x 3/4" Mesh Flexible Polypropylene Netting	1.02	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0023	SF	1" x 1" Mesh Flexible Polypropylene Netting	1.02	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0024	SF	1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting	0.99	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0025	SF	2" x 2" Mesh Flexible Polypropylene Netting	0.96	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0026	SF	3" x 3" Mesh Flexible Polypropylene Netting	0.96	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0027	SF	4" x 4" Mesh Flexible Polypropylene Netting	0.92	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0028	SF	5/8" x 3/4" Mesh Flexible Polypropylene Netting	1.04	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0029	SF	1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting	0.98	0.38	
		Note: To control bird and marine predators.			
10 81 13 00-0030	EA	Poly Clips For Flexible Netting	3.35		
10 81 13 00-0031		Netting Accessories (10 81 13)			
10 81 13 00-0032	EA	2' Zipper For Flexible Netting	9.64		
10 81 13 00-0033	EA	4' Zipper For Flexible Netting	14.52		
10 81 13 00-0034	EA	6' Zipper For Flexible Netting	17.09		
10 81 13 00-0035	EA	8' Zipper For Flexible Netting	24.29		
10 81 16		Insect Control Devices (10 81)			
10 81 16 00-0001		Insect Screening (10 81 16)			
10 81 16 00-0002	CSF	17/14 Mesh Insect Screening With Flat Screen Splines	147.42		

END OF SECTION 10



Equipment		11	
Entertainment and Recreation Equipment		11 60	
Play Field Equipment and Structures		11 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

11 Equipment

11 60 Entertainment and Recreation Equipment ⁽¹¹⁾

11 68 Play Field Equipment and Structures ^(11 60)

11 68 13 Playground Equipment ^(11 68)

See CSI section 32 31 13 13-0001 for augering holes and fill for posts.

11 68 13 00-0001	EA	Standalone Playground Equipment ^(11 68 13)		
11 68 13 00-0002	EA	Ground Socket For Movable Posts ^(11 68 13 00-0001)		
11 68 13 00-0003	PR	Ground Socket For 2-3/8" Post For Playground Equipment	305.14	65.31
11 68 13 00-0004	PR	Ground Socket For 3-1/2" Post For Playground Equipment	466.42	65.31
11 68 13 00-0005	EA	See-Saws ^(11 68 13 00-0001)		
11 68 13 00-0006	EA	Steel See-Saw ^(11 68 13 00-0005)		
11 68 13 00-0007	EA	2 Unit Steel See-Saw	2,561.90	401.91
11 68 13 00-0008	EA	4 Unit Steel See-Saw	4,139.12	474.97
11 68 13 00-0009	EA	6 Unit Steel See-Saw	5,734.45	580.52
11 68 13 00-0010	EA	14' Long Laminated Beam ^(11 68 13 00-0005)		
11 68 13 00-0011	EA	Beam Is Supported By Two 12 In x 12 In Stepping Column Posts	2,715.01	355.37
11 68 13 00-0012	EA	Beam Is Supported By Two 8 In x 8 In Posts	1,884.64	316.57
11 68 13 00-0013	EA	Slides ^(11 68 13 00-0001)		
11 68 13 00-0014	EA	8' Long x 4' High Slide With Stainless Steel Bed	3,020.75	459.58
11 68 13 00-0015	EA	12' Long x 6' High Slide With Stainless Steel Bed	4,235.45	653.08
11 68 13 00-0016	EA	16' Long x 8' High Slide With Stainless Steel Bed	4,691.26	725.65
11 68 13 00-0017	EA	20' Long x 10' High Slide With Stainless Steel Bed	5,874.74	803.83
11 68 13 00-0018	EA	6' High, 360 Degree One Piece Molded Polyethylene Slide	18,511.56	1,264.47
11 68 13 00-0019	EA	7' High, 360 Degree Slide, Stainless Steel Bed	18,138.66	1,304.44
11 68 13 00-0020	EA	9' High, 360 Degree Slide, Stainless Steel Bed	22,798.38	1,371.01
11 68 13 00-0021	EA	Whirlers ^(11 68 13 00-0001)		
11 68 13 00-0022	EA	8' Diameter Whirler	6,883.48	870.78
11 68 13 00-0023	EA	10' Diameter Whirler	7,995.84	1,044.94
11 68 13 00-0024	EA	Other Standalone Playground Equipment ^(11 68 13 00-0001)		
11 68 13 00-0025	EA	Miscellaneous Standalone Playground Equipment ^(11 68 13 00-0024)		
11 68 13 00-0026	EA	Horizontal Ladder	2,189.30	232.69
11 68 13 00-0027	EA	Tether Ball Post	372.45	45.48
11 68 13 00-0028	PR	10'-6" Long Multiple Purpose Post	569.16	80.41
11 68 13 00-0029	EA	3-Person Fiberglass Golf Tee Shelter Turntable	9,827.98	227.18
11 68 13 00-0030	EA	Horizontal Turning Bars, 1 Bar	700.27	121.42
11 68 13 00-0031	EA	Horizontal Turning Bars, 2 Bars	945.88	145.13
11 68 13 00-0032	EA	Horizontal Turning Bars, 3 Bars	1,275.27	193.51
11 68 13 00-0033	EA	Horizontal Turning Bars, 5 Bars	1,864.50	266.07
11 68 13 00-0034	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 8' Pole	1,949.62	110.78
11 68 13 00-0035	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 10' Pole	2,146.48	119.59
11 68 13 00-0036	EA	Coil Spring With Single Riding Aluminum Saddle Devices	2,100.47	128.19
11 68 13 00-0037	EA	"C" Spring With Single Riding Aluminum Saddle Devices	2,925.19	110.30
11 68 13 00-0038	EA	Rubber Spring With Single Riding Aluminum Saddle Devices	3,595.12	144.45
11 68 13 00-0039	EA	Coil Spring Assembly Only	534.84	53.12
11 68 13 00-0040	EA	"C" Spring Assembly Only	355.39	35.41
11 68 13 00-0041	EA	Rubber Spring Assembly Only	276.95	69.08
11 68 13 00-0042	EA	Footbuck Assembly Only	92.36	9.29
11 68 13 00-0043	EA	Two Seat, Two Spring Action Cars (4'-8" x 2'-8")	2,387.28	132.84
11 68 13 00-0044	EA	Freestanding Panels ^(11 68 13 00-0024)		
Note: Rotomolded polyethylene.				
11 68 13 00-0045	EA	Tic-Tac-Toe Panel	1,016.54	56.89
11 68 13 00-0046	EA	24" Bubble Panel	1,522.84	85.24
11 68 13 00-0047	EA	Fire Engine Panel	2,234.81	125.10
11 68 13 00-0048	EA	Flat Mirror Panel	1,787.87	100.13
11 68 13 00-0049	EA	Wavy Mirror Panel	2,646.17	148.22
11 68 13 00-0050	EA	Paint Time Panel	1,716.65	96.17
11 68 13 00-0051	EA	Phone Time Panel	1,218.27	68.21
11 68 13 00-0052	EA	Phone Time With Graphic Panel	1,218.27	68.21
11 68 13 00-0053	EA	Race Time Panel	2,135.92	119.59
11 68 13 00-0054	EA	Rescue 911 Panel	2,167.53	119.59

11 Equipment**11 60 Entertainment and Recreation Equipment****11 68 Play Field Equipment and Structures**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0055	EA	Eastern/Central/Western States Panel	1,166.86	65.30
11 68 13 00-0056	EA	Career People Panel.....	1,325.06	74.21
11 68 13 00-0057	EA	Solar System Panel	1,325.06	74.21
11 68 13 00-0058	EA	Animals Panel.....	1,325.06	74.21
11 68 13 00-0059		Freestanding Panels Uprights (11 68 13 00-0024)		
11 68 13 00-0060	EA	3-1/2" Outside Diameter End Panel Upright.....	316.66	31.93
11 68 13 00-0061	EA	3-1/2" Outside Diameter 90 Degree Upright	343.07	34.54
11 68 13 00-0062	EA	3-1/2" Outside Diameter 180 Degree Upright	343.07	34.54
11 68 13 00-0063	EA	3-1/2" Outside Diameter "T-Shaped" Upright.....	365.06	36.77
11 68 13 00-0064		Coasters (11 68 13 00-0024)		
11 68 13 00-0065	EA	12' Single Metal Coaster With Four Posts	7,858.93	387.01
11 68 13 00-0066	EA	18' Single Metal Coaster With Four Posts	8,792.65	483.76
11 68 13 00-0067	EA	12' Double Metal Coaster With Four Posts	12,708.52	580.51
11 68 13 00-0068	EA	18' Double Metal Coaster With Four Posts.....	14,458.35	725.64
11 68 13 00-0069		Climbers (11 68 13 00-0024)		
11 68 13 00-0070	EA	Tower Climber, 3.17' Diameter x 7.25' High.....	1,457.32	258.52
11 68 13 00-0071	EA	Arch Climber, 2' x 12' x 4.5' High	1,329.82	316.57
11 68 13 00-0072	EA	Arch Climber, 2' x 15' x 5.83' High	1,442.52	258.52
11 68 13 00-0073	EA	Arch Climber, 2' x 17' x 6.58' High	1,549.25	316.57
11 68 13 00-0074	EA	Rainbow Climber, 2' x 10'-5" x 4' High	1,658.17	258.23
11 68 13 00-0075	EA	Rainbow Climber, 2' x 10'-5" x 5' High	1,855.74	258.33
11 68 13 00-0076	EA	Rainbow Climber, 2' x 12'-5" x 6' High	2,158.44	258.33
11 68 13 00-0077	EA	Rainbow Climber, 2' x 15'-4" x 7' High	2,356.34	258.23
11 68 13 00-0078	EA	Double Level Arch Climber, 6' Wide x 12'-6" x 6' High Upper Section / 5' High Lower Section.....	2,842.26	302.35
11 68 13 00-0079	EA	12' Long Horizontal Ladder Climber.....	2,312.62	225.72
11 68 13 00-0080	EA	14' Long Horizontal Ladder Climber.....	2,345.92	225.72
11 68 13 00-0081	EA	16' Long Horizontal Ladder Climber.....	2,566.41	225.72
11 68 13 00-0082	EA	Bell Climber, 7'-5" High With Double Bars	2,420.44	290.25
11 68 13 00-0083	EA	2-Way Climber.....	2,032.26	232.69
11 68 13 00-0084	EA	4-Way Climber.....	3,229.16	232.69
11 68 13 00-0085		Swings (11 68 13 00-0001)		
11 68 13 00-0086		Two-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail (11 68 13 00-0085)		
		Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0087	EA	8' High Top Rail, One Section Two Seats.....	1,914.18	355.37
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	222.34	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	250.32	
11 68 13 00-0088	EA	8' High Top Rail, Two Sections Four Seats	3,053.80	508.54
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	356.32	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	407.41	
11 68 13 00-0089	EA	8' High Top Rail, Three Sections, Six Seats	4,225.86	748.29
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	492.59	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	561.30	
11 68 13 00-0090	EA	8' High Top Rail, Four Sections, Eight Seats	5,295.00	870.78
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	618.33	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	708.88	
11 68 13 00-0091	EA	10' High Top Rail, One Section Two Seats.....	2,041.73	355.37
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	238.28	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	272.64	
11 68 13 00-0092	EA	10' High Top Rail, Two Section Four Seats	3,192.12	541.63
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	371.19	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	419.51	
11 68 13 00-0093	EA	10' High Top Rail, Three Sections, Six Seats	4,408.67	841.08
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	511.02	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	571.19	
11 68 13 00-0094	EA	10' High Top Rail, Four Sections, Eight Seats	5,839.46	1,015.92
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	679.12	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	767.83	
11 68 13 00-0095		Three-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail (11 68 13 00-0085)		
		Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0096	EA	8' High Top Rail, One Section, Two Seats.....	2,190.84	313.87
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	258.16	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	304.92	
11 68 13 00-0097	EA	8' High Top Rail, Two Sections, Four Seats	3,179.84	455.42
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	374.71	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	442.62	
11 68 13 00-0098	EA	8' High Top Rail, Three Sections, Six Seats	4,242.32	609.07
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	499.84	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	590.14	
11 68 13 00-0099	EA	8' High Top Rail, Four Sections, Eight Seats	5,300.63	725.65
		For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	626.29	
		For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	746.17	



		Equipment	11
		Entertainment and Recreation Equipment	11 60
		Play Field Equipment and Structures	11 68

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0100 EA 10' High Top Rail, One Section, Two Seats..... For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	2,470.66 291.15 343.94	353.73
11 68 13 00-0101 EA 10' High Top Rail, One Section Three Seats For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	2,580.44 304.69 362.24	375.12
11 68 13 00-0102 EA 10' High Top Rail, Two Sections, Four Seats For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	3,449.16 406.38 479.80	495.19
11 68 13 00-0103 EA 10' High Top Rail, Two Sections, Six Seats For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	4,148.94 491.42 590.09	570.84
11 68 13 00-0104 EA 10' High Top Rail, Three Section, Six Seats For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	4,591.24 540.96 638.76	658.80
11 68 13 00-0105 EA 10' High Top Rail, Three Sections, Nine Seats For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	5,716.87 678.32 819.01	725.94
11 68 13 00-0106 EA 10' High Top Rail, Four Section, Eight Seats For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	5,823.73 684.42 801.41	870.78
11 68 13 00-0107 EA 12' High Top Rail, One Section Three Seats For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	2,698.81 319.05 380.77	384.21
11 68 13 00-0108 EA 12' High Top Rail, Two Sections, Six Seats For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	4,390.25 519.33 621.06	618.16
11 68 13 00-0109 EA 12' High Top Rail, Three Sections, Nine Seats For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	6,396.16 751.14 877.44	990.08
11 68 13 00-0110 Swing Accessories (11 68 13 00-0085)		
11 68 13 00-0111 EA Enclosed Tot Seat With Chain And Hardware	641.32	29.09
11 68 13 00-0112 EA Bucket Seat With Chain And Hardware	533.14	24.20
11 68 13 00-0113 EA Belt Seat With Chain And Hardware	567.93	25.82
11 68 13 00-0114 EA Seat With Chain And Hardware	560.19	25.44
11 68 13 00-0115 EA Wide Seat With Chain And Hardware	591.32	26.88
11 68 13 00-0116 EA Handi Seat With Chain And Hardware	1,765.57	80.17
11 68 13 00-0117 LF 0.4 Lb./LF Replacement Chain	7.38	0.57
11 68 13 00-0118 LF 1 Lb./LF Replacement Chain	13.70	1.16
11 68 13 00-0119 EA Swing Hanger Replacement	80.08	6.62
11 68 23 Exterior Court Athletic Equipment (11 68)		
11 68 23 13 Exterior Basketball Equipment (11 68 23)		
11 68 23 13-0001 Basketball Systems (11 68 23 13) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0002 EA 4-1/2" Bent Post Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Steel Net Basketball System (Sportsplay 541-616).....	2,642.29	297.47
11 68 23 13-0003 EA 5-9/16" Bent Post Galvanized Steel Pole With 6' Extension Style, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00176-230)	4,669.07	327.21
For Fan Shaped Fiberglass Backboard, Deduct	-133.00	
For 42" x 72" Perforated Steel Backboard, Add	350.00	
11 68 23 13-0004 EA 4-1/2" Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00164-230)	3,028.12	297.47
For Fan Shaped Fiberglass Backboard, Deduct	-133.00	
For 42" x 72" Perforated Steel Backboard, Add	350.00	
11 68 23 13-0005 EA 5-9/16" Galvanized Steel Pole With 6' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00166-230)	4,669.07	327.21
For Fan Shaped Fiberglass Backboard, Deduct	-133.00	
For 42" x 72" Perforated Steel Backboard, Add	350.00	
11 68 23 13-0006 EA Back To Back 6" Galvanized Steel Pole With 5' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 195582)	8,358.01	481.19
For Fan Shaped Fiberglass Backboard, Deduct	-498.00	
For 42" x 72" Perforated Steel Backboard, Add	700.00	
11 68 23 13-0007 Basketball Components (11 68 23 13) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0008 EA Anti-Whip, Nylon Cord Basketball Net (Porter Athletic 09608-120)	35.26	9.67
11 68 23 13-0009 EA Chain Basketball Net (Porter Athletic 00161-000)	63.31	9.67
11 68 23 13-0010 EA Heavy-Duty Goal Ring (Porter Athletic 00235-000)	145.20	48.37
11 68 23 13-0011 EA Goal Ring For Steel Net (Porter Athletic 00251-H00)	264.72	21.76
11 68 23 13-0012 EA 42" x 72" Rectangular Fully Tempered Glass Basketball Backboard With Steel Frame (Porter Athletic 00204-000)	1,538.42	41.12
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0013 EA 42" x 72" Rectangular 11 Gauge Perforated Steel Basketball Backboard (Porter Athletic 01207-300)	1,978.04	41.12
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0014 EA 54" x 39" Fan Shaped Cast Aluminum Basketball Backboard (Porter Athletic 00234-300)	1,006.69	36.28
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0015 EA 54" x 39" Fan Shaped Fiberglass Basketball Backboard (Porter Athletic 00267-000)	1,101.55	36.28
Note: Includes perimeter and target markings. Excludes pole and goal.		

11 Equipment**11 60 Entertainment and Recreation Equipment****11 68 Play Field Equipment and Structures**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 23 33 Tennis Equipment (11 68 23)				
11 68 23 33-0001 Tennis Court Net Posts (11 68 23 33)				
11 68 23 33-0002	PR	Round, Powder Coated Steel, Tennis Court Net Posts With External Winder	1,205.85	164.48
11 68 23 33-0003	PR	Round, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,533.19	164.48
11 68 23 33-0004	PR	Square, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,587.75	164.48
11 68 23 33-0005	PR	Round, Powder Coated Aluminum, Tennis Court Net Posts With External Winder	1,682.10	164.48
11 68 23 33-0006	PR	Round, Powder Coated Aluminum, Tennis Court Net Posts With Internal Winder	2,018.03	164.48
11 68 23 33-0007	PR	Polyvinyl Chloride (PVC) Ground Sleeves For Tennis Court Net Posts	299.90	
11 68 23 33-0008	PR	Galvanized Steel Ground Sleeves For Tennis Court Net Posts	340.68	
11 68 23 33-0009 Tennis Court Nets (11 68 23 33)				
11 68 23 33-0010	EA	42' Length, Single Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	653.42	162.55
11 68 23 33-0011	EA	42' Length, Double Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	718.52	162.55
11 68 23 33-0012	EA	42' Length, Anti-Vandal, Aluminum Coated Flexible Steel Mesh, Tennis Court Net	1,559.90	250.11
11 68 23 33-0013	EA	Galvanized Steel Anchor For Tennis Court Net Center Strap	84.32	
11 68 33 Athletic Field Equipment (11 68)				
11 68 33 13 Football Field Equipment (11 68 33)				
11 68 33 13-0001 Football Goal Posts (11 68 33 13)				
Note: Includes augering for post(s), set in concrete and backfill.				
11 68 33 13-0002	PR	Double Steel Football Goal Posts, "H Shape"	5,439.26	435.39
11 68 33 13-0003	PR	Vertical Style Goal Post, Single In Ground Mounting, Steel With 20' Uprights	8,036.60	699.10
11 68 33 13-0004	PR	Gooseneck (Offset) Style Goal Post, Single In Ground Mounting, Steel, With 20' Uprights	9,598.86	838.92
11 68 33 23 Soccer and Field Hockey Equipment (11 68 33)				
11 68 33 23-0001 Soccer Goal Posts (11 68 33 23)				
Note: Includes augering for post(s), set in concrete and backfill.				
11 68 33 23-0002	PR	Regulation Soccer Goal Posts	5,167.82	290.26
11 68 33 23-0003	PR	Combination Football/Soccer Goal Post	6,209.68	435.39
11 68 33 33 Baseball Field Equipment (11 68 33)				
11 68 33 33-0001 Bases (11 68 33 33)				
11 68 33 33-0002	SET	Bases For Baseball Or Softball	628.52	
11 80 Facility Maintenance and Operation Equipment (11)				
11 82 Facility Solid Waste Handling Equipment (11 80)				
11 82 19 Packaged Incinerators (11 82)				
11 82 19 00-0001 Electric Incinerator (11 82 19)				
11 82 19 00-0002	EA	Electric Package Incinerator, 100 Lb./Hour	43,111.33	1,165.75
11 82 19 00-0003	EA	Electric Package Incinerator, 400 Lb./Hour	88,211.69	2,331.49
11 82 19 00-0004	EA	Electric Package Incinerator, 1,000 Lb./Hour	298,256.15	3,497.24
11 82 26 Facility Waste Compactors (11 82)				
11 82 26 00-0001 Waste Compactors (11 82 26)				
11 82 26 00-0002 110 Volt Compactors (11 82 26 00-0001)				
11 82 26 00-0003	EA	Waste Compactor, 110 Volt At 75 Lb./Hour	23,540.32	640.49
11 82 26 00-0004	EA	Waste Compactor, 110 Volt At 250 Lb./Hour	29,587.06	1,537.17
11 82 26 00-0005 230 Volt Compactors (11 82 26 00-0001)				
11 82 26 00-0006	EA	Waste Compactor, 230 Volt At 600 Lb./Hour Hand Fed	29,531.47	2,049.56
11 82 26 00-0007	EA	Waste Compactor, 230 Volt At 600 Lb./Hour Chute Fed	33,301.20	2,690.05

END OF SECTION 11



Special Construction		13
Integrated Construction		13 40
Facility Protection		13 47

13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

13 Special Construction

13 40 Integrated Construction ⁽¹³⁾

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping ^(13 47 13)

13 47 13 13-0001	Anodes ^(13 47 13 13)		
13 47 13 13-0002	Magnesium Type, Conventional ^(13 47 13 13-0001)		
13 47 13 13-0003	EA 9 Lb. Magnesium Type Anodes	441.16	193.75
13 47 13 13-0004	EA 17 Lb. Magnesium Type Anodes	653.97	280.02
13 47 13 13-0005	EA 32 Lb. Magnesium Type Anode	891.20	360.24
13 47 13 13-0006	EA 48 Lb. Magnesium Type Anode	1,268.33	504.03
13 47 13 13-0007	Graphite Type ^(13 47 13 13-0001) Note: Includes epoxy cap.		
13 47 13 13-0008	EA 3" x 60", 32 Lb., Graphite Type Anodes With Epoxy Cap	664.10	274.84
13 47 13 13-0009	EA 4" x 80", 68 Lb., Graphite Type Anodes With Epoxy Cap	1,032.02	383.78
13 47 13 13-0010	EA 6" x 36", 45 Lb., Graphite Type Anodes With Epoxy Cap	773.48	240.17
13 47 13 13-0011	EA 6" x 72", 80 Lb., Graphite Type Anodes With Epoxy Cap	1,182.29	320.64
13 47 13 13-0012	High Silicon Cast Iron Type ^(13 47 13 13-0001)		
13 47 13 13-0013	EA 2.66" x 84", 70 Lb., High Silicon Cast Iron Anode	2,270.36	383.78
13 47 13 13-0014	Metal Oxide Type ^(13 47 13 13-0001)		
13 47 13 13-0015	EA 1" x 60", 5 Lb., Mixed Metal Oxide Anode	1,142.92	193.75
	Note: Includes center connected #8 HMWPE/HALAR Lead wire.		
13 47 13 13-0016	Rectifiers ^(13 47 13 13)		
13 47 13 13-0017	Air-Cooled, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0018	EA Air-Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type	2,340.38	390.18
13 47 13 13-0019	EA Air-Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type	2,535.02	390.18
13 47 13 13-0020	Oil Immersed, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0021	EA Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type	3,542.45	451.14
13 47 13 13-0022	EA Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type	3,750.99	451.14
13 47 13 13-0023	Anode Backfill ^(13 47 13 13)		
13 47 13 13-0024	LB Anode Backfill, Coke Breeze	1.30	0.49
13 47 13 13-0025	Cathodic Protection Cable ^(13 47 13 13)		
13 47 13 13-0026	MLF Cathodic Protection Cable, OR2 - No 8	2,810.45	960.69
13 47 13 13-0027	MLF Cathodic Protection Cable, OR2 - No 6	3,204.86	960.69
13 47 13 13-0028	MLF Cathodic Protection Cable, OR2 - No 4	3,796.47	960.69
13 47 13 13-0029	MLF Cathodic Protection Cable, OR2 - No 2	4,782.49	960.69
13 47 13 13-0030	MLF Cathodic Protection Cable, OR2 - No 1	6,057.30	1,058.49
13 47 13 13-0031	MLF Cathodic Protection Cable, OR2-No 1/0	6,796.82	1,058.49
13 47 13 13-0032	MLF Cathodic Protection Cable, OR2-No 2/0	8,029.35	1,058.49
13 47 13 13-0033	MLF Cathodic Protection Cable, OR2-No 4/0	11,177.22	1,153.82
13 47 13 13-0034	Cathodic Test Stations ^(13 47 13 13)		
13 47 13 13-0035	Flush Curb Box Type With Lockable Cover And Terminal Box ^(13 47 13 13-0034)		
13 47 13 13-0036	EA Cathodic Test Station, Flush Curb Type With Lockable Cover	339.50	112.44
13 47 13 16	Cathodic Protection for Underground Storage Tanks ^(13 47 13) See CSI section 13 47 13 13-0000 for Cathodic protection for tanks.		

13	13	Special Construction
	13 40	Integrated Construction
	13 47	Facility Protection



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

END OF SECTION 13



		Special Construction	13	13
		Integrated Construction	13 40	
		Facility Protection	13 47	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST

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13	13	Special Construction
	13 40	Integrated Construction
	13 47	Facility Protection



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 05 Common Work Results for Plumbing (22)

22 05 23 General-Duty Valves for Plumbing Piping (22 05)

See CSI section 23 05 23 00-0000 for additional valves.

22 05 23 00-0001	Gate Valves (22 05 23)		
22 05 23 00-0002	Class 125 Brazed Or Soldered Bronze Gate Valves (22 05 23 00-0001)		
Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)			
22 05 23 00-0003	EA 1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	103.07	13.54
	For 150 Lb. Rating, Add	6.36	
	For 200 Lb. Rating, Add	9.55	
	For Work In Restricted Working Space, Add	11.83	
22 05 23 00-0004	EA 3/8" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	105.14	13.54
	For 150 Lb. Rating, Add	6.36	
	For 200 Lb. Rating, Add	9.55	
	For Work In Restricted Working Space, Add	12.45	
22 05 23 00-0005	EA 1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	107.69	13.54
	For 150 Lb. Rating, Add	6.40	
	For 200 Lb. Rating, Add	9.60	
	For Work In Restricted Working Space, Add	13.10	
22 05 23 00-0006	EA 3/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	127.67	14.89
	For 150 Lb. Rating, Add	6.88	
	For 200 Lb. Rating, Add	10.32	
	For Work In Restricted Working Space, Add	17.66	
22 05 23 00-0007	EA 1" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	155.54	16.93
	For 150 Lb. Rating, Add	8.43	
	For 200 Lb. Rating, Add	12.64	
	For Work In Restricted Working Space, Add	21.38	
22 05 23 00-0008	EA 1-1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	227.86	18.01
	For 150 Lb. Rating, Add	13.76	
	For 200 Lb. Rating, Add	20.64	
	For Work In Restricted Working Space, Add	27.08	
22 05 23 00-0009	EA 1-1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	253.70	20.85
	For 150 Lb. Rating, Add	14.95	
	For 200 Lb. Rating, Add	22.43	
	For Work In Restricted Working Space, Add	31.25	
22 05 23 00-0010	EA 2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	304.27	24.65
	For 150 Lb. Rating, Add	18.12	
	For 200 Lb. Rating, Add	27.18	
	For Work In Restricted Working Space, Add	36.93	
22 05 23 00-0011	EA 2-1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	691.78	33.29
	For 150 Lb. Rating, Add	52.55	
	For 200 Lb. Rating, Add	78.83	
	For Work In Restricted Working Space, Add	49.88	
	For Chain Operated Type, Add	236.48	
22 05 23 00-0012	EA 3" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	811.97	38.65
	For 150 Lb. Rating, Add	62.01	
	For 200 Lb. Rating, Add	93.02	
	For Work In Restricted Working Space, Add	57.56	
22 05 23 00-0013	Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves (22 05 23 00-0001)		
Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, NIBCO T113-LF)			
22 05 23 00-0014	EA 1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	124.27	13.54
	For 150 Lb. Rating, Add	8.48	
	For 200 Lb. Rating, Add	12.73	
	For Work In Restricted Working Space, Add	11.83	
22 05 23 00-0015	EA 3/8" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	126.16	13.54
	For 150 Lb. Rating, Add	8.47	
	For 200 Lb. Rating, Add	12.70	
	For Work In Restricted Working Space, Add	12.45	
22 05 23 00-0016	EA 1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	146.87	13.54
	For 150 Lb. Rating, Add	10.32	
	For 200 Lb. Rating, Add	15.48	
	For Work In Restricted Working Space, Add	13.10	
22 05 23 00-0017	EA 3/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	166.86	14.89
	For 150 Lb. Rating, Add	10.80	
	For 200 Lb. Rating, Add	16.20	
	For Work In Restricted Working Space, Add	17.66	
22 05 23 00-0018	EA 1" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	200.25	16.93
	For 150 Lb. Rating, Add	12.90	
	For 200 Lb. Rating, Add	19.35	
	For Work In Restricted Working Space, Add	21.38	
22 05 23 00-0019	EA 1-1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	289.01	18.01
	For 150 Lb. Rating, Add	19.87	
	For 200 Lb. Rating, Add	29.81	
	For Work In Restricted Working Space, Add	27.08	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0020 EA 1-1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve 330.62		20.85
For 150 Lb. Rating, Add	22.65	
For 200 Lb. Rating, Add	33.97	
For Work In Restricted Working Space, Add	31.25	
22 05 23 00-0021 EA 2" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve 423.12		24.65
For 150 Lb. Rating, Add	30.00	
For 200 Lb. Rating, Add	45.00	
For Work In Restricted Working Space, Add	36.93	
22 05 23 00-0022 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valves (22 05 23 00-0001)		
Note: 200 psi cold working pressure.		
22 05 23 00-0023 EA 1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve 141.42		13.54
For Work In Restricted Working Space, Add	9.14	
22 05 23 00-0024 EA 3/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve 159.27		14.89
For Work In Restricted Working Space, Add	10.41	
22 05 23 00-0025 EA 1" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve 209.23		16.93
For Work In Restricted Working Space, Add	12.44	
22 05 23 00-0026 EA 1-1/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve 285.06		18.01
For Work In Restricted Working Space, Add	13.71	
22 05 23 00-0027 EA 1-1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve 330.41		20.85
For Work In Restricted Working Space, Add	15.23	
22 05 23 00-0028 EA 2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve 454.59		24.65
For Work In Restricted Working Space, Add	18.28	
22 05 23 00-0029 Ball Valves (22 05 23)		
22 05 23 00-0030 Crimped Bronze, Ball Valves (22 05 23 00-0029)		
22 05 23 00-0031 Crimped Bronze, 250 PSI, Ball Valves (22 05 23 00-0030)		
Note: NIBCO		
22 05 23 00-0032 EA 1/2" Diameter, Crimped Bronze, 250 PSI, Ball Valve 97.48		13.54
For Work In Restricted Working Space, Add	9.14	
22 05 23 00-0033 EA 3/4" Diameter, Crimped Bronze, 250 PSI, Ball Valve 126.01		14.89
For Work In Restricted Working Space, Add	10.41	
22 05 23 00-0034 EA 1" Diameter, Crimped Bronze, 250 PSI, Ball Valve 161.66		16.93
For Work In Restricted Working Space, Add	12.44	
22 05 23 00-0035 EA 1-1/4" Diameter, Crimped Bronze, 250 PSI, Ball Valve 260.69		18.01
For Work In Restricted Working Space, Add	13.71	
22 05 23 00-0036 EA 1-1/2" Diameter, Crimped Bronze, 250 PSI, Ball Valve 344.33		20.85
For Work In Restricted Working Space, Add	15.23	
22 05 23 00-0037 EA 2" Diameter, Crimped Bronze, 250 PSI, Ball Valve 518.59		24.65
For Work In Restricted Working Space, Add	18.28	
22 05 23 00-0038 Crimped Bronze, 200 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0039 EA 1/2" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve 59.70		13.54
For Work In Restricted Working Space, Add	9.14	
22 05 23 00-0040 EA 3/4" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve 75.77		14.89
For Work In Restricted Working Space, Add	10.41	
22 05 23 00-0041 EA 1" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve 92.02		16.93
For Work In Restricted Working Space, Add	12.44	
22 05 23 00-0042 EA 1-1/4" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve 127.87		18.01
For Work In Restricted Working Space, Add	13.71	
22 05 23 00-0043 EA 1-1/2" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve 164.54		20.85
For Work In Restricted Working Space, Add	15.23	
22 05 23 00-0044 EA 2" Diameter, Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve 242.63		24.65
For Work In Restricted Working Space, Add	18.28	
22 05 23 00-0045 Crimped Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0046 EA 1/2" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve 68.39		13.54
For Work In Restricted Working Space, Add	9.14	
22 05 23 00-0047 EA 3/4" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve 82.09		14.89
For Work In Restricted Working Space, Add	10.41	
22 05 23 00-0048 EA 1" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve 102.13		16.93
For Work In Restricted Working Space, Add	12.44	
22 05 23 00-0049 EA 1-1/4" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve 159.46		18.01
For Work In Restricted Working Space, Add	13.71	
22 05 23 00-0050 EA 1-1/2" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve 232.48		20.85
For Work In Restricted Working Space, Add	15.23	
22 05 23 00-0051 EA 2" Diameter, Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve 321.63		24.65
For Work In Restricted Working Space, Add	18.28	
22 05 23 00-0052 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0053 EA 1/2" Diameter, Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve 66.02		13.54
For Work In Restricted Working Space, Add	9.14	
22 05 23 00-0054 EA 3/4" Diameter, Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve 79.88		14.89
For Work In Restricted Working Space, Add	10.41	
22 05 23 00-0055 EA 1" Diameter, Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve 97.07		16.93
For Work In Restricted Working Space, Add	12.44	



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General-Duty Valves for Plumbing Piping		22 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0056 Check Valves (22 05 23)		
22 05 23 00-0057 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves (22 05 23 00-0056) Note: NIBCO		
22 05 23 00-0058 EA 1/2" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve For Work In Restricted Working Space, Add	185.33 9.14	13.54
22 05 23 00-0059 EA 3/4" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve For Work In Restricted Working Space, Add	235.79 10.41	14.89
22 05 23 00-0060 EA 1" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve For Work In Restricted Working Space, Add	325.76 12.44	16.93
22 05 23 00-0061 EA 1-1/4" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve For Work In Restricted Working Space, Add	434.01 13.71	18.01
22 05 23 00-0062 EA 1-1/2" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve For Work In Restricted Working Space, Add	517.68 15.23	20.85
22 05 23 00-0063 EA 2" Diameter, Crimped Bronze, 200 PSI, Y-Pattern Check Valve For Work In Restricted Working Space, Add	740.49 18.28	24.65
22 05 23 00-0064 Crimped Bronze, 250 PSI, In-Line, Check Valves (22 05 23 00-0056)		
22 05 23 00-0065 EA 1/2" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve For Work In Restricted Working Space, Add	53.03 9.14	13.54
22 05 23 00-0066 EA 3/4" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve For Work In Restricted Working Space, Add	63.56 10.41	14.89
22 05 23 00-0067 EA 1" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve For Work In Restricted Working Space, Add	74.73 12.44	16.93
22 05 23 00-0068 EA 1-1/4" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve For Work In Restricted Working Space, Add	93.81 13.71	18.01
22 05 23 00-0069 EA 1-1/2" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve For Work In Restricted Working Space, Add	119.08 15.23	20.85
22 05 23 00-0070 EA 2" Diameter, Crimped Bronze, 200 PSI, In-Line Check Valve For Work In Restricted Working Space, Add	185.23 18.28	24.65
22 05 23 00-0071 Butterfly Valves (22 05 23)		
22 05 23 00-0072 Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve (22 05 23 00-0071)		
22 05 23 00-0073 EA 2-1/2" Diameter, Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve For Work In Restricted Working Space, Add	1,379.64 21.33	36.16
22 05 23 00-0074 EA 3" Diameter, Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve For Work In Restricted Working Space, Add	1,493.85 25.39	41.98
22 05 23 00-0075 EA 4" Diameter, Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve For Work In Restricted Working Space, Add	1,867.63 33.51	47.40
22 05 23 00-0076 Regulator Valves (22 05 23)		
22 05 23 00-0077 EA 4" Diameter, Regulator Valve (Cla-Val)	4,059.47	
22 05 23 00-0078 EA 8" Diameter, Regulator Valve (Cla-Val)	5,521.90	
22 05 23 00-0079 EA 10" Diameter, Regulator Valve (Cla-Val)	7,529.68	
22 05 23 00-0080 EA 12" Diameter, Regulator Valve (Cla-Val)	9,133.50	
22 05 23 00-0081 EA 18" Diameter, Regulator Valve (Cla-Val)	16,047.47	
22 05 23 00-0082 EA 24" Diameter, Regulator Valve (Cla-Val)	25,951.53	
22 05 23 00-0083 Earthquake-Sensitive Gas Shut-Off Valves (22 05 23)		
22 05 23 00-0084 0.5 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0083)		
22 05 23 00-0085 EA 3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve	202.75	14.89
22 05 23 00-0086 EA 1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve	229.66	16.93
22 05 23 00-0087 7 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0083)		
22 05 23 00-0088 EA 1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve	268.46	18.01
22 05 23 00-0089 EA 1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve	361.54	20.85
22 05 23 00-0090 60 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0083)		
22 05 23 00-0091 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	250.27	14.89
22 05 23 00-0092 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	262.66	16.93
22 05 23 00-0093 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	294.85	18.01
22 05 23 00-0094 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	401.14	20.85
22 05 23 00-0095 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	915.04	24.65
22 05 23 00-0096 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,089.60	33.17
22 05 23 00-0097 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,412.76	38.65
22 05 23 00-0098 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,637.13	43.65
22 05 23 00-0099 60 PSI Flanged Earthquake Gas Shutoff Valves (22 05 23 00-0083)		
22 05 23 00-0100 EA 2" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	1,281.60	180.50
22 05 23 00-0101 EA 3" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	1,578.62	211.99
22 05 23 00-0102 EA 4" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	2,227.22	355.40

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

22 05 23 00-0103 EA 6" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	3,628.89	420.20
22 05 23 00-0104 EA 8" Diameter Flanged, 60 PSI Earthquake Gas Shutoff Valve	9,774.29	536.93

22 05 76 Facility Drainage Piping Cleanouts (22 05)**22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover (22 05 76)**

Note: For floor installation.

22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover (22 05 76 00-0001)

22 05 76 00-0003 EA 2" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	879.25	72.03
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0004 EA 3" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	946.28	90.31
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0005 EA 4" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,182.67	109.14
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0006 EA 5" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,708.02	122.14
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007 EA 6" Diameter, Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	2,107.96	132.29
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008 Cast Iron Heavy-Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)		
22 05 76 00-0009 EA 2" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,016.69	72.03
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010 EA 3" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,085.90	90.31
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011 EA 4" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,322.29	109.14
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012 EA 5" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,847.65	122.14
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	



		Plumbing	22
		Common Work Results for Plumbing	22 05
		Facility Drainage Piping Cleanouts	22 05 76

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0013	EA	6" Diameter, Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	2,247.58	132.29
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0014		Wall Cover For Cleanout (22 05 76)		
		Note: Cover and screw only.		
22 05 76 00-0015		Round Access Cover, Bronze Polished Top (22 05 76 00-0014)		
		Note: Cover and screw only.		
22 05 76 00-0016	EA	4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	118.17	22.61
		For Stainless Steel, Add	9.00	
		For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017	EA	5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	127.20	27.08
		For Stainless Steel, Add	9.00	
		For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018	EA	7" Diameter Wall Cover For Cleanout, Screwed.....	162.78	30.47
		For Stainless Steel, Add	9.00	
		For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019	EA	9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	277.17	33.86
		For Stainless Steel, Add	9.00	
		For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020	EA	11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	418.46	37.24
		For Stainless Steel, Add	9.00	
		For Vandal Proof Screws, Add	19.50	
22 05 76 00-0021		Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
		Note: Cover and screw only.		
22 05 76 00-0022	EA	7" x 7" Bronze Wall Or Floor Access Cover.....	594.00	22.61
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0023	EA	9" x 9" Bronze Wall Or Floor Access Cover.....	855.44	23.70
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0024	EA	10" x 10" Bronze Wall Or Floor Access Cover.....	914.04	25.05
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0025	EA	14" x 14" Bronze Wall Or Floor Access Cover.....	1,022.45	28.44
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0026		Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
		Note: Cover and screw only.		
22 05 76 00-0027	EA	6" x 6" Bronze Secured Wall Access Panel.....	604.49	22.61
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0028	EA	8" x 8" Bronze Secured Wall Access Panel.....	870.89	23.70
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0029	EA	10" x 10" Bronze Secured Wall Access Panel.....	930.56	25.05
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0030	EA	12" x 12" Bronze Secured Wall Access Panel.....	1,040.92	28.44
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0031		Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014)		
		Note: Cover and screw only.		
22 05 76 00-0032	EA	6" x 6" Bronze Secured Hinged Access Panel, Scoriated.....	586.37	22.61
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0033	EA	8" x 8" Bronze Secured Hinged Access Panel, Scoriated.....	811.33	23.70
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0034	EA	10" x 10" Bronze Secured Hinged Access Panel, Scoriated.....	1,150.68	25.05
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0035	EA	12" x 12" Bronze Secured Hinged Access Panel, Scoriated.....	1,393.10	28.44
		For Vandal Proof Screws, Add	19.50	
		For Nickel Bronze, Add	22.50	
22 05 76 00-0036		Cast Iron Cleanout Tee (22 05 76)		
22 05 76 00-0037		Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036)		
		Note: Satin smooth secured cover.		

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0038 EA 2" Diameter, Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	632.95	72.03
For Vandal Proof Screws, Add	19.50	
For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0039 EA 3" Diameter, Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	720.32	90.18
For Vandal Proof Screws, Add	19.50	
For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0040 EA 4" Diameter, Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	943.65	109.14
For Vandal Proof Screws, Add	19.50	
For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0041 EA 6" Diameter, Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	2,301.18	132.29
For Vandal Proof Screws, Add	19.50	
For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036)		
Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Diameter, Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	1,121.86	72.03
For Vandal Proof Screws, Add	19.50	
For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0044 EA 3" Diameter, Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	1,209.22	90.18
For Vandal Proof Screws, Add	19.50	
For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0045 EA 4" Diameter, Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	1,400.11	109.14
For Vandal Proof Screws, Add	19.50	
For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0046 EA 6" Diameter, Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	2,961.55	132.29
For Vandal Proof Screws, Add	19.50	
For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)		
22 05 76 00-0048 EA 2" Diameter, Cleanout Tee With Cast Bronze Screw Plug.....	518.53	58.91
22 05 76 00-0049 EA 3" Diameter, Cleanout Tee With Cast Bronze Screw Plug.....	580.33	64.31
22 05 76 00-0050 EA 4" Diameter, Cleanout Tee With Cast Bronze Screw Plug.....	773.83	84.63
22 05 76 00-0051 EA 5" Diameter, Cleanout Tee With Cast Bronze Screw Plug.....	1,173.28	100.20
22 05 76 00-0052 EA 6" Diameter, Cleanout Tee With Cast Bronze Screw Plug.....	2,020.56	118.48
22 05 76 00-0053 Removable Cleanout Plug (22 05 76)		
22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)		
22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Diameter, Threaded Bronze Plug	87.90	16.93
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0056 EA 2-1/2" Diameter, Threaded Bronze Plug.....	105.32	18.41
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0057 EA 3" Diameter, Threaded Bronze Plug	180.40	20.31
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0058 EA 3-1/2" Diameter, Threaded Bronze Plug.....	201.90	23.70
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0059 EA 4" Diameter, Threaded Bronze Plug	228.28	27.08
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0060 EA 5" Diameter, Threaded Bronze Plug	320.85	30.47
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0061 EA 6" Diameter, Threaded Bronze Plug	472.23	33.86
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0062 EA 8" Diameter, Threaded Bronze Plug	797.50	37.24
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0063 EA 10" Diameter, Threaded Bronze Plug	1,147.40	40.63
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)		
22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head.....	37.32	16.93
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head	37.93	16.93
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head.....	41.32	18.41
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head	46.70	20.31
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head	55.10	23.70
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head	64.60	27.08
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head.....	69.32	28.52
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head	74.43	30.47
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head	95.83	33.85
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head.....	36.85	16.93
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head.....	37.52	16.93
For Plug Tapped For Center Screw, Add	9.50	



		Plumbing	22
		Common Work Results for Plumbing	22 05
		Facility Drainage Piping Cleanouts	22 05 76

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	42.63 9.50	18.41
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	46.89 9.50	20.31
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	54.54 9.50	23.70
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	63.71 9.50	27.08
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	73.95 9.50	30.47
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	87.98 9.50	33.86

22 07 Plumbing Insulation (22)

22 07 19 Plumbing Piping Insulation (22 07)

22 07 19 00-0001 Insulation Protective Jacketing (22 07 19)

Note: Jacketing only and to be added to insulation prices when required. ID = inside diameter.

22 07 19 00-0002 Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0001)

22 07 19 00-0003 Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0002)

22 07 19 00-0004 SF 0.006" Aluminum Insulation Jacket With Bands.....	20.64	8.77
22 07 19 00-0005 SF 0.016" Aluminum Insulation Jacket With Bands.....	21.35	8.77

22 07 19 00-0006 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)

22 07 19 00-0007 LF 1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.77 0.01 0.02	2.49
22 07 19 00-0008 LF 3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.24 0.01 0.03	2.55
22 07 19 00-0009 LF 1" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.72 0.01 0.03	2.61
22 07 19 00-0010 LF 1-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.21 0.02 0.04	2.67
22 07 19 00-0011 LF 1-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.60 0.02 0.04	2.71
22 07 19 00-0012 LF 1-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.01 0.02 0.05	2.75
22 07 19 00-0013 LF 2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.47 0.02 0.06	2.81
22 07 19 00-0014 LF 2-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.95 0.02 0.06	2.86
22 07 19 00-0015 LF 2-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.45 0.03 0.07	2.94
22 07 19 00-0016 LF 2-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.88 0.03 0.07	2.98
22 07 19 00-0017 LF 3" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.42 0.03 0.08	3.05
22 07 19 00-0018 LF 3-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.94 0.03 0.09	3.12
22 07 19 00-0019 LF 3-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.45 0.04 0.09	3.19
22 07 19 00-0020 LF 3-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.92 0.04 0.10	3.24
22 07 19 00-0021 LF 4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.48 0.04 0.10	3.32
22 07 19 00-0022 LF 4-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.05 0.04 0.11	3.40
22 07 19 00-0023 LF 4-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.65 0.05 0.12	3.49
22 07 19 00-0024 LF 4-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.16 0.05 0.12	3.56

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0025 LF 5" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	19.79	3.65
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0026 LF 5-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	20.42	3.75
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.14	
22 07 19 00-0027 LF 5-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	20.97	3.83
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0028 LF 5-3/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	21.68	3.94
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0029 LF 6" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	22.39	4.06
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0030 LF 6-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	22.87	4.12
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.16	
22 07 19 00-0031 LF 6-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	23.36	4.19
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0032 LF 7" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	24.20	4.28
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0033 LF 7-1/4" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	24.84	4.39
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0034 LF 7-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	25.37	4.46
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.19	
22 07 19 00-0035 LF 8" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	26.15	4.53
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0036 LF 8-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	26.92	4.61
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.21	
22 07 19 00-0037 LF 9" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	27.86	4.72
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
22 07 19 00-0038 LF 9-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	28.71	4.81
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.24	
22 07 19 00-0039 LF 10" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	29.52	4.89
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.25	
22 07 19 00-0040 LF 10-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	30.35	4.98
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.26	
22 07 19 00-0041 LF 11" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	31.39	5.12
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.27	
22 07 19 00-0042 LF 11-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	32.29	5.22
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.29	
22 07 19 00-0043 LF 12" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	33.16	5.32
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.30	
22 07 19 00-0044 LF 12-1/2" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	34.28	5.48
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.31	
22 07 19 00-0045 LF 13" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	34.97	5.54
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.32	
22 07 19 00-0046 LF 14" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	36.17	5.59
For Stucco Embossed, Add	0.14	
For Corrugated, Add	0.35	
22 07 19 00-0047 LF 15" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	37.60	5.71
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.37	
22 07 19 00-0048 LF 16" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	38.81	5.77
For Stucco Embossed, Add	0.16	
For Corrugated, Add	0.39	
22 07 19 00-0049 LF 17" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	40.26	5.89
For Stucco Embossed, Add	0.17	
For Corrugated, Add	0.42	
22 07 19 00-0050 LF 18" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	41.18	5.95
For Stucco Embossed, Add	0.17	
For Corrugated, Add	0.43	
22 07 19 00-0051 LF 19" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	42.98	6.09
For Stucco Embossed, Add	0.19	
For Corrugated, Add	0.47	
22 07 19 00-0052 LF 20" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing	44.24	6.15
For Stucco Embossed, Add	0.20	
For Corrugated, Add	0.49	



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0053	LF		21" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	45.76 0.21 0.51	6.29
22 07 19 00-0054	LF		22" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	47.00 0.22 0.54	6.38
22 07 19 00-0055	LF		23" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	48.59 0.22 0.56	6.53
22 07 19 00-0056	LF		24" ID, 0.016" Thick (16 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	49.85 0.23 0.59	6.61
22 07 19 00-0057			20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0058	LF		1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	11.99 0.01 0.03	2.74
22 07 19 00-0059	LF		3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	12.54 0.01 0.03	2.80
22 07 19 00-0060	LF		1" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	13.10 0.02 0.04	2.87
22 07 19 00-0061	LF		1-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	13.68 0.02 0.05	2.95
22 07 19 00-0062	LF		1-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	14.16 0.02 0.06	2.99
22 07 19 00-0063	LF		1-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	14.65 0.03 0.06	3.03
22 07 19 00-0064	LF		2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	15.20 0.03 0.07	3.09
22 07 19 00-0065	LF		2-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	15.76 0.03 0.08	3.16
22 07 19 00-0066	LF		2-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	16.36 0.03 0.09	3.23
22 07 19 00-0067	LF		2-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	16.87 0.04 0.09	3.28
22 07 19 00-0068	LF		3" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	17.51 0.04 0.10	3.35
22 07 19 00-0069	LF		3-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	18.11 0.04 0.11	3.43
22 07 19 00-0070	LF		3-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	18.74 0.05 0.12	3.50
22 07 19 00-0071	LF		3-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	19.28 0.05 0.13	3.57
22 07 19 00-0072	LF		4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	19.94 0.05 0.13	3.65
22 07 19 00-0073	LF		4-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	20.60 0.06 0.14	3.74
22 07 19 00-0074	LF		4-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	21.32 0.06 0.15	3.84
22 07 19 00-0075	LF		4-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	21.92 0.06 0.16	3.91
22 07 19 00-0076	LF		5" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	22.64 0.07 0.16	4.01
22 07 19 00-0077	LF		5-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	23.38 0.07 0.17	4.13
22 07 19 00-0078	LF		5-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	24.04 0.07 0.18	4.22
22 07 19 00-0079	LF		5-3/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	24.86 0.08 0.19	4.34
22 07 19 00-0080	LF		6" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing..... For Stucco Embossed, Add For Corrugated, Add	25.67 0.08 0.20	4.47

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0081 LF 6-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	26.24	4.53
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0082 LF 6-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	26.82	4.60
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.21	
22 07 19 00-0083 LF 7" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	27.81	4.71
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
22 07 19 00-0084 LF 7-1/4" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	28.57	4.82
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.23	
22 07 19 00-0085 LF 7-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	29.18	4.90
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.24	
22 07 19 00-0086 LF 8" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	30.13	4.98
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.25	
22 07 19 00-0087 LF 8-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	31.06	5.06
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.27	
22 07 19 00-0088 LF 9" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	32.18	5.20
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.28	
22 07 19 00-0089 LF 9-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	33.18	5.29
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.30	
22 07 19 00-0090 LF 10" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	34.17	5.39
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.32	
22 07 19 00-0091 LF 10-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	35.16	5.48
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.33	
22 07 19 00-0092 LF 11" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	36.39	5.63
For Stucco Embossed, Add	0.14	
For Corrugated, Add	0.35	
22 07 19 00-0093 LF 11-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	37.46	5.74
For Stucco Embossed, Add	0.14	
For Corrugated, Add	0.36	
22 07 19 00-0094 LF 12" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	38.50	5.85
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.38	
22 07 19 00-0095 LF 12-1/2" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	39.80	6.03
For Stucco Embossed, Add	0.16	
For Corrugated, Add	0.39	
22 07 19 00-0096 LF 13" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	40.66	6.09
For Stucco Embossed, Add	0.16	
For Corrugated, Add	0.41	
22 07 19 00-0097 LF 14" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	42.14	6.15
For Stucco Embossed, Add	0.18	
For Corrugated, Add	0.44	
22 07 19 00-0098 LF 15" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	43.87	6.27
For Stucco Embossed, Add	0.19	
For Corrugated, Add	0.47	
22 07 19 00-0099 LF 16" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	45.37	6.35
For Stucco Embossed, Add	0.20	
For Corrugated, Add	0.50	
22 07 19 00-0100 LF 17" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	47.12	6.49
For Stucco Embossed, Add	0.21	
For Corrugated, Add	0.53	
22 07 19 00-0101 LF 18" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	48.24	6.56
For Stucco Embossed, Add	0.22	
For Corrugated, Add	0.55	
22 07 19 00-0102 LF 19" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	50.44	6.70
For Stucco Embossed, Add	0.24	
For Corrugated, Add	0.59	
22 07 19 00-0103 LF 20" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	52.00	6.77
For Stucco Embossed, Add	0.25	
For Corrugated, Add	0.62	
22 07 19 00-0104 LF 21" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	53.83	6.93
For Stucco Embossed, Add	0.26	
For Corrugated, Add	0.65	
22 07 19 00-0105 LF 22" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	55.35	7.01
For Stucco Embossed, Add	0.27	
For Corrugated, Add	0.68	
22 07 19 00-0106 LF 23" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	57.27	7.17
For Stucco Embossed, Add	0.29	
For Corrugated, Add	0.71	
22 07 19 00-0107 LF 24" ID, 0.020" Thick (20 Mil), Aluminum Insulation Jacketing.....	58.82	7.26
For Stucco Embossed, Add	0.30	
For Corrugated, Add	0.74	

22 07 19 00-0108 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture
Barrier And Bands (22 07 19 00-0002)



	Plumbing	22	
	Plumbing Insulation	22 07	22
	Plumbing Piping Insulation	22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0109	LF	1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	13.17	2.99
		For Stucco Embossed, Add	.....	0.01	
		For Corrugated, Add	.....	0.03	
22 07 19 00-0110	LF	3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	13.82	3.06
		For Stucco Embossed, Add	.....	0.02	
		For Corrugated, Add	.....	0.04	
22 07 19 00-0111	LF	1" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	14.47	3.13
		For Stucco Embossed, Add	.....	0.02	
		For Corrugated, Add	.....	0.05	
22 07 19 00-0112	LF	1-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	15.13	3.21
		For Stucco Embossed, Add	.....	0.02	
		For Corrugated, Add	.....	0.06	
22 07 19 00-0113	LF	1-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	15.68	3.26
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.07	
22 07 19 00-0114	LF	1-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	16.24	3.31
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0115	LF	2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	16.88	3.37
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0116	LF	2-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	17.52	3.44
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.09	
22 07 19 00-0117	LF	2-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	18.21	3.52
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0118	LF	2-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	18.81	3.57
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.11	
22 07 19 00-0119	LF	3" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	19.54	3.65
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.12	
22 07 19 00-0120	LF	3-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	20.23	3.73
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.13	
22 07 19 00-0121	LF	3-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	20.93	3.82
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.14	
22 07 19 00-0122	LF	3-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	21.58	3.89
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0123	LF	4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	22.31	3.98
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.16	
22 07 19 00-0124	LF	4-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	23.07	4.09
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.17	
22 07 19 00-0125	LF	4-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	23.89	4.19
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.18	
22 07 19 00-0126	LF	4-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	24.58	4.27
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.19	
22 07 19 00-0127	LF	5" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	25.39	4.39
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.20	
22 07 19 00-0128	LF	5-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	26.24	4.51
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.21	
22 07 19 00-0129	LF	5-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	26.98	4.60
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.21	
22 07 19 00-0130	LF	5-3/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	27.91	4.73
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.22	
22 07 19 00-0131	LF	6" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	28.84	4.87
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.23	
22 07 19 00-0132	LF	6-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	29.49	4.94
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.24	
22 07 19 00-0133	LF	6-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	30.15	5.02
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.25	
22 07 19 00-0134	LF	7" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	31.30	5.13
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.27	
22 07 19 00-0135	LF	7-1/4" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	32.15	5.27
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.28	
22 07 19 00-0136	LF	7-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	.....	32.86	5.35
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.29	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0137	LF	8" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	33.95	5.44
		For Stucco Embossed, Add	0.12	
		For Corrugated, Add	0.30	
22 07 19 00-0138	LF	8-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	35.01	5.53
		For Stucco Embossed, Add	0.13	
		For Corrugated, Add	0.32	
22 07 19 00-0139	LF	9" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	36.32	5.67
		For Stucco Embossed, Add	0.14	
		For Corrugated, Add	0.34	
22 07 19 00-0140	LF	9-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	37.47	5.77
		For Stucco Embossed, Add	0.14	
		For Corrugated, Add	0.36	
22 07 19 00-0141	LF	10" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	38.61	5.87
		For Stucco Embossed, Add	0.15	
		For Corrugated, Add	0.38	
22 07 19 00-0142	LF	10-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	39.77	5.98
		For Stucco Embossed, Add	0.16	
		For Corrugated, Add	0.40	
22 07 19 00-0143	LF	11" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	41.15	6.14
		For Stucco Embossed, Add	0.17	
		For Corrugated, Add	0.41	
22 07 19 00-0144	LF	11-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	42.39	6.26
		For Stucco Embossed, Add	0.17	
		For Corrugated, Add	0.43	
22 07 19 00-0145	LF	12" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	43.60	6.39
		For Stucco Embossed, Add	0.18	
		For Corrugated, Add	0.45	
22 07 19 00-0146	LF	12-1/2" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	45.09	6.58
		For Stucco Embossed, Add	0.19	
		For Corrugated, Add	0.47	
22 07 19 00-0147	LF	13" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	46.08	6.65
		For Stucco Embossed, Add	0.20	
		For Corrugated, Add	0.49	
22 07 19 00-0148	LF	14" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	47.84	6.71
		For Stucco Embossed, Add	0.21	
		For Corrugated, Add	0.53	
22 07 19 00-0149	LF	15" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	49.84	6.85
		For Stucco Embossed, Add	0.22	
		For Corrugated, Add	0.56	
22 07 19 00-0150	LF	16" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	51.62	6.92
		For Stucco Embossed, Add	0.24	
		For Corrugated, Add	0.60	
22 07 19 00-0151	LF	17" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	53.67	7.07
		For Stucco Embossed, Add	0.25	
		For Corrugated, Add	0.63	
22 07 19 00-0152	LF	18" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	54.96	7.15
		For Stucco Embossed, Add	0.26	
		For Corrugated, Add	0.66	
22 07 19 00-0153	LF	19" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	57.53	7.30
		For Stucco Embossed, Add	0.28	
		For Corrugated, Add	0.71	
22 07 19 00-0154	LF	20" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	59.36	7.39
		For Stucco Embossed, Add	0.30	
		For Corrugated, Add	0.75	
22 07 19 00-0155	LF	21" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	61.47	7.56
		For Stucco Embossed, Add	0.31	
		For Corrugated, Add	0.78	
22 07 19 00-0156	LF	22" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	63.28	7.65
		For Stucco Embossed, Add	0.33	
		For Corrugated, Add	0.82	
22 07 19 00-0157	LF	23" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	65.49	7.83
		For Stucco Embossed, Add	0.34	
		For Corrugated, Add	0.85	
22 07 19 00-0158	LF	24" ID, 0.024" Thick (24 Mil), Aluminum Insulation Jacketing	67.31	7.92
		For Stucco Embossed, Add	0.36	
		For Corrugated, Add	0.89	
22 07 19 00-0159		32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0160	LF	1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	14.89	3.31
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.04	
22 07 19 00-0161	LF	3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	15.68	3.39
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.05	
22 07 19 00-0162	LF	1" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	16.49	3.47
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.07	
22 07 19 00-0163	LF	1-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	17.31	3.55
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.08	
22 07 19 00-0164	LF	1-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	18.02	3.61
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.09	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0165	LF	1-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	18.71	3.66
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0166	LF	2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	19.49	3.74
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.11	
22 07 19 00-0167	LF	2-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	20.29	3.81
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.13	
22 07 19 00-0168	LF	2-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	21.18	3.89
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.14	
22 07 19 00-0169	LF	2-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	21.91	3.96
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0170	LF	3" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	22.81	4.05
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.17	
22 07 19 00-0171	LF	3-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	23.65	4.15
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.18	
22 07 19 00-0172	LF	3-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	24.52	4.24
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.19	
22 07 19 00-0173	LF	3-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	25.31	4.32
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.20	
22 07 19 00-0174	LF	4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	26.21	4.42
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.21	
22 07 19 00-0175	LF	4-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	27.14	4.53
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.23	
22 07 19 00-0176	LF	4-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	28.14	4.64
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.24	
22 07 19 00-0177	LF	4-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	28.99	4.73
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.25	
22 07 19 00-0178	LF	5" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	29.98	4.86
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.26	
22 07 19 00-0179	LF	5-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	31.00	4.99
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.28	
22 07 19 00-0180	LF	5-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	31.90	5.09
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.29	
22 07 19 00-0181	LF	5-3/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	33.03	5.25
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.30	
22 07 19 00-0182	LF	6" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	34.14	5.40
		For Stucco Embossed, Add	.....	0.13	
		For Corrugated, Add	.....	0.31	
22 07 19 00-0183	LF	6-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	34.95	5.48
		For Stucco Embossed, Add	.....	0.13	
		For Corrugated, Add	.....	0.33	
22 07 19 00-0184	LF	6-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	35.76	5.57
		For Stucco Embossed, Add	.....	0.14	
		For Corrugated, Add	.....	0.34	
22 07 19 00-0185	LF	7" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	37.20	5.69
		For Stucco Embossed, Add	.....	0.14	
		For Corrugated, Add	.....	0.36	
22 07 19 00-0186	LF	7-1/4" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	38.23	5.83
		For Stucco Embossed, Add	.....	0.15	
		For Corrugated, Add	.....	0.37	
22 07 19 00-0187	LF	7-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	39.10	5.92
		For Stucco Embossed, Add	.....	0.15	
		For Corrugated, Add	.....	0.38	
22 07 19 00-0188	LF	8" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	40.47	6.03
		For Stucco Embossed, Add	.....	0.16	
		For Corrugated, Add	.....	0.41	
22 07 19 00-0189	LF	8-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	41.83	6.12
		For Stucco Embossed, Add	.....	0.17	
		For Corrugated, Add	.....	0.43	
22 07 19 00-0190	LF	9" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	43.44	6.28
		For Stucco Embossed, Add	.....	0.18	
		For Corrugated, Add	.....	0.46	
22 07 19 00-0191	LF	9-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	44.90	6.40
		For Stucco Embossed, Add	.....	0.19	
		For Corrugated, Add	.....	0.48	
22 07 19 00-0192	LF	10" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing	.....	46.34	6.51
		For Stucco Embossed, Add	.....	0.20	
		For Corrugated, Add	.....	0.51	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0193	LF	10-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	47.77	6.63
		For Stucco Embossed, Add	0.21	
		For Corrugated, Add	0.53	
22 07 19 00-0194	LF	11" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	49.49	6.81
		For Stucco Embossed, Add	0.22	
		For Corrugated, Add	0.56	
22 07 19 00-0195	LF	11-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	51.04	6.94
		For Stucco Embossed, Add	0.23	
		For Corrugated, Add	0.58	
22 07 19 00-0196	LF	12" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	52.55	7.08
		For Stucco Embossed, Add	0.24	
		For Corrugated, Add	0.61	
22 07 19 00-0197	LF	12-1/2" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	54.36	7.29
		For Stucco Embossed, Add	0.25	
		For Corrugated, Add	0.63	
22 07 19 00-0198	LF	13" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	55.63	7.36
		For Stucco Embossed, Add	0.26	
		For Corrugated, Add	0.65	
22 07 19 00-0199	LF	14" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	57.93	7.43
		For Stucco Embossed, Add	0.28	
		For Corrugated, Add	0.70	
22 07 19 00-0200	LF	15" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	60.49	7.60
		For Stucco Embossed, Add	0.30	
		For Corrugated, Add	0.75	
22 07 19 00-0201	LF	16" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	62.81	7.68
		For Stucco Embossed, Add	0.32	
		For Corrugated, Add	0.80	
22 07 19 00-0202	LF	17" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	65.41	7.84
		For Stucco Embossed, Add	0.34	
		For Corrugated, Add	0.85	
22 07 19 00-0203	LF	18" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	67.07	7.92
		For Stucco Embossed, Add	0.35	
		For Corrugated, Add	0.88	
22 07 19 00-0204	LF	19" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	70.39	8.10
		For Stucco Embossed, Add	0.38	
		For Corrugated, Add	0.95	
22 07 19 00-0205	LF	20" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	72.74	8.19
		For Stucco Embossed, Add	0.40	
		For Corrugated, Add	1.00	
22 07 19 00-0206	LF	21" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	75.44	8.38
		For Stucco Embossed, Add	0.42	
		For Corrugated, Add	1.05	
22 07 19 00-0207	LF	22" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	77.77	8.47
		For Stucco Embossed, Add	0.44	
		For Corrugated, Add	1.10	
22 07 19 00-0208	LF	23" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	80.58	8.68
		For Stucco Embossed, Add	0.46	
		For Corrugated, Add	1.15	
22 07 19 00-0209	LF	24" ID, 0.032" Thick (32 Mil), Aluminum Insulation Jacketing.....	82.93	8.79
		For Stucco Embossed, Add	0.48	
		For Corrugated, Add	1.20	
22 07 19 00-0210		40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0211	LF	1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	17.29	3.81
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.05	
22 07 19 00-0212	LF	3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	18.26	3.90
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.07	
22 07 19 00-0213	LF	1" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	19.24	3.99
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.08	
22 07 19 00-0214	LF	1-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	20.24	4.09
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0215	LF	1-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	21.09	4.15
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.11	
22 07 19 00-0216	LF	1-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	21.96	4.22
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.13	
22 07 19 00-0217	LF	2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	22.90	4.30
		For Stucco Embossed, Add	0.06	
		For Corrugated, Add	0.14	
22 07 19 00-0218	LF	2-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	23.87	4.39
		For Stucco Embossed, Add	0.06	
		For Corrugated, Add	0.16	
22 07 19 00-0219	LF	2-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	24.94	4.48
		For Stucco Embossed, Add	0.07	
		For Corrugated, Add	0.18	
22 07 19 00-0220	LF	2-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing.....	25.83	4.56
		For Stucco Embossed, Add	0.08	
		For Corrugated, Add	0.19	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0221	LF	3"	3" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.92 0.08 0.21	4.66
22 07 19 00-0222	LF	3-1/4"	3-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.96 0.09 0.22	4.76
22 07 19 00-0223	LF	3-1/2"	3-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.01 0.10 0.24	4.87
22 07 19 00-0224	LF	3-3/4"	3-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.95 0.10 0.25	4.96
22 07 19 00-0225	LF	4"	4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.05 0.11 0.27	5.08
22 07 19 00-0226	LF	4-1/4"	4-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.16 0.11 0.28	5.21
22 07 19 00-0227	LF	4-1/2"	4-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.39 0.12 0.30	5.34
22 07 19 00-0228	LF	4-3/4"	4-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.40 0.13 0.32	5.45
22 07 19 00-0229	LF	5"	5" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.59 0.13 0.33	5.59
22 07 19 00-0230	LF	5-1/4"	5-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.81 0.14 0.35	5.74
22 07 19 00-0231	LF	5-1/2"	5-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.90 0.14 0.36	5.86
22 07 19 00-0232	LF	5-3/4"	5-3/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.26 0.15 0.38	6.03
22 07 19 00-0233	LF	6"	6" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.59 0.16 0.39	6.21
22 07 19 00-0234	LF	6-1/4"	6-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.57 0.16 0.41	6.30
22 07 19 00-0235	LF	6-1/2"	6-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.56 0.17 0.42	6.41
22 07 19 00-0236	LF	7"	7" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.30 0.18 0.45	6.55
22 07 19 00-0237	LF	7-1/4"	7-1/4" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.54 0.19 0.47	6.71
22 07 19 00-0238	LF	7-1/2"	7-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.59 0.19 0.48	6.82
22 07 19 00-0239	LF	8"	8" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.27 0.21 0.51	6.93
22 07 19 00-0240	LF	8-1/2"	8-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.93 0.22 0.54	7.04
22 07 19 00-0241	LF	9"	9" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.88 0.23 0.57	7.23
22 07 19 00-0242	LF	9-1/2"	9-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.68 0.24 0.61	7.35
22 07 19 00-0243	LF	10"	10" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.43 0.25 0.64	7.48
22 07 19 00-0244	LF	10-1/2"	10-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	57.17 0.27 0.67	7.63
22 07 19 00-0245	LF	11"	11" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	59.25 0.28 0.70	7.84
22 07 19 00-0246	LF	11-1/2"	11-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	61.14 0.29 0.73	7.99
22 07 19 00-0247	LF	12"	12" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	62.98 0.30 0.76	8.14
22 07 19 00-0248	LF	12-1/2"	12-1/2" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	65.17 0.32 0.79	8.38

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0249 LF 13" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	66.72	8.47
For Stucco Embossed, Add	0.33	
For Corrugated, Add	0.82	
22 07 19 00-0250 LF 14" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	69.59	8.55
For Stucco Embossed, Add	0.35	
For Corrugated, Add	0.88	
22 07 19 00-0251 LF 15" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	72.72	8.74
For Stucco Embossed, Add	0.38	
For Corrugated, Add	0.94	
22 07 19 00-0252 LF 16" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	75.61	8.83
For Stucco Embossed, Add	0.40	
For Corrugated, Add	1.01	
22 07 19 00-0253 LF 17" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	78.80	9.02
For Stucco Embossed, Add	0.43	
For Corrugated, Add	1.07	
22 07 19 00-0254 LF 18" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	80.87	9.11
For Stucco Embossed, Add	0.44	
For Corrugated, Add	1.11	
22 07 19 00-0255 LF 19" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	84.94	9.32
For Stucco Embossed, Add	0.48	
For Corrugated, Add	1.19	
22 07 19 00-0256 LF 20" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	87.88	9.42
For Stucco Embossed, Add	0.50	
For Corrugated, Add	1.25	
22 07 19 00-0257 LF 21" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	91.17	9.63
For Stucco Embossed, Add	0.53	
For Corrugated, Add	1.32	
22 07 19 00-0258 LF 22" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	94.06	9.75
For Stucco Embossed, Add	0.55	
For Corrugated, Add	1.38	
22 07 19 00-0259 LF 23" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	97.50	9.99
For Stucco Embossed, Add	0.58	
For Corrugated, Add	1.44	
22 07 19 00-0260 LF 24" ID, 0.040" Thick (40 Mil), Aluminum Insulation Jacketing	100.41	10.10
For Stucco Embossed, Add	0.60	
For Corrugated, Add	1.50	

22 07 19 00-0261 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0002)

22 07 19 00-0262 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	27.72	3.91
22 07 19 00-0263 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	28.30	4.06
22 07 19 00-0264 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.05	4.22
22 07 19 00-0265 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.31	4.28
22 07 19 00-0266 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.58	4.35
22 07 19 00-0267 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	33.00	4.46
22 07 19 00-0268 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	34.73	4.57
22 07 19 00-0269 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	35.19	4.68
22 07 19 00-0270 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	38.53	4.76
22 07 19 00-0271 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	39.36	4.85
22 07 19 00-0272 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	40.80	4.98
22 07 19 00-0273 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	41.78	5.07
22 07 19 00-0274 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	42.16	5.16
22 07 19 00-0275 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	42.56	5.27
22 07 19 00-0276 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	45.70	5.38
22 07 19 00-0277 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	49.84	5.48
22 07 19 00-0278 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	57.38	5.65
22 07 19 00-0279 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	57.85	5.77
22 07 19 00-0280 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	53.51	5.95
22 07 19 00-0281 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	54.04	6.09
22 07 19 00-0282 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	60.94	6.29
22 07 19 00-0283 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	69.16	6.45
22 07 19 00-0284 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	69.47	6.53
22 07 19 00-0285 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	90.19	6.61
22 07 19 00-0286 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	74.29	6.69
22 07 19 00-0287 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	115.27	6.85
22 07 19 00-0288 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	115.97	7.02
22 07 19 00-0289 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	93.11	7.12
22 07 19 00-0290 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	93.48	7.21
22 07 19 00-0291 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	95.25	7.30
22 07 19 00-0292 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	95.66	7.40
22 07 19 00-0293 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	105.50	7.62
22 07 19 00-0294 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	105.94	7.72
22 07 19 00-0295 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	165.38	7.94
22 07 19 00-0296 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	165.85	8.06
22 07 19 00-0297 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	212.39	8.30
22 07 19 00-0298 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	221.57	8.56
22 07 19 00-0299 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	239.13	8.70
22 07 19 00-0300 EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	29.94	4.35
22 07 19 00-0301 EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	30.36	4.46
22 07 19 00-0302 EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing	32.44	4.57
22 07 19 00-0303 EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	32.90	4.68
22 07 19 00-0304 EA 3-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	35.23	4.76
22 07 19 00-0305 EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	35.56	4.85



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0306	EA	4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	36.35	4.98
22 07 19 00-0307	EA	4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.04	5.07
22 07 19 00-0308	EA	4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.42	5.16
22 07 19 00-0309	EA	4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.82	5.27
22 07 19 00-0310	EA	5" ID, Aluminum 45 Degree Elbow Insulation Jacketing	43.50	5.38
22 07 19 00-0311	EA	5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	43.93	5.48
22 07 19 00-0312	EA	5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	45.68	5.65
22 07 19 00-0313	EA	6" ID, Aluminum 45 Degree Elbow Insulation Jacketing	46.91	5.95
22 07 19 00-0314	EA	6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.07	6.29
22 07 19 00-0315	EA	7" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.66	6.45
22 07 19 00-0316	EA	7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	58.58	6.61
22 07 19 00-0317	EA	8" ID, Aluminum 45 Degree Elbow Insulation Jacketing	58.90	6.69
22 07 19 00-0318	EA	8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	67.41	6.85
22 07 19 00-0319	EA	9" ID, Aluminum 45 Degree Elbow Insulation Jacketing	68.11	7.02
22 07 19 00-0320	EA	9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	84.02	7.12
22 07 19 00-0321	EA	10" ID, Aluminum 45 Degree Elbow Insulation Jacketing	84.39	7.21
22 07 19 00-0322	EA	10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	81.17	7.30
22 07 19 00-0323	EA	11" ID, Aluminum 45 Degree Elbow Insulation Jacketing	81.58	7.40
22 07 19 00-0324	EA	11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	92.85	7.62
22 07 19 00-0325	EA	12" ID, Aluminum 45 Degree Elbow Insulation Jacketing	93.29	7.72
22 07 19 00-0326	EA	13" ID, Aluminum 45 Degree Elbow Insulation Jacketing	105.49	8.06
22 07 19 00-0327	EA	14" ID, Aluminum 45 Degree Elbow Insulation Jacketing	123.10	8.30
22 07 19 00-0328	EA	15" ID, Aluminum 45 Degree Elbow Insulation Jacketing	172.73	8.56
22 07 19 00-0329	EA	16" ID, Aluminum 45 Degree Elbow Insulation Jacketing	184.92	8.70
22 07 19 00-0330	EA	17" ID, Aluminum 45 Degree Elbow Insulation Jacketing	181.95	8.84
22 07 19 00-0331	EA	18" ID, Aluminum 45 Degree Elbow Insulation Jacketing	203.14	8.99
22 07 19 00-0332	EA	19" ID, Aluminum 45 Degree Elbow Insulation Jacketing	240.79	9.13
22 07 19 00-0333	EA	20" ID, Aluminum 45 Degree Elbow Insulation Jacketing	234.69	9.29
22 07 19 00-0334	EA	21" ID, Aluminum 45 Degree Elbow Insulation Jacketing	251.05	9.45
22 07 19 00-0335	EA	2-1/2" ID, Aluminum Tee Insulation Jacketing	111.00	6.22
22 07 19 00-0336	EA	2-3/4" ID, Aluminum Tee Insulation Jacketing	111.58	6.38
22 07 19 00-0337	EA	3" ID, Aluminum Tee Insulation Jacketing	123.35	6.53
22 07 19 00-0338	EA	3-1/4" ID, Aluminum Tee Insulation Jacketing	123.98	6.69
22 07 19 00-0339	EA	3-1/2" ID Aluminum Tee Insulation Jacketing	129.32	6.85
22 07 19 00-0340	EA	4" ID, Aluminum Tee Insulation Jacketing	131.12	7.02
22 07 19 00-0341	EA	4-1/4" ID, Aluminum Tee Insulation Jacketing	137.80	7.21
22 07 19 00-0342	EA	4-1/2" ID, Aluminum Tee Insulation Jacketing	137.70	7.40
22 07 19 00-0343	EA	4-3/4" ID, Aluminum Tee Insulation Jacketing	138.51	7.62
22 07 19 00-0344	EA	5" ID, Aluminum Tee Insulation Jacketing	143.42	7.83
22 07 19 00-0345	EA	5-1/4" ID, Aluminum Tee Insulation Jacketing	144.35	8.06
22 07 19 00-0346	EA	5-1/2" ID, Aluminum Tee Insulation Jacketing	150.28	8.30
22 07 19 00-0347	EA	6" ID, Aluminum Tee Insulation Jacketing	151.32	8.56
22 07 19 00-0348	EA	6-1/2" ID, Aluminum Tee Insulation Jacketing	165.13	9.13
22 07 19 00-0349	EA	7" ID, Aluminum Tee Insulation Jacketing	166.39	9.45
22 07 19 00-0350	EA	7-1/2" ID, Aluminum Tee Insulation Jacketing	182.14	9.78
22 07 19 00-0351	EA	8" ID, Aluminum Tee Insulation Jacketing	183.59	10.15
22 07 19 00-0352	EA	8-1/2" ID, Aluminum Tee Insulation Jacketing	188.93	10.54
22 07 19 00-0353	EA	9" ID, Aluminum Tee Insulation Jacketing	190.61	10.97
22 07 19 00-0354	EA	9-1/2" ID, Aluminum Tee Insulation Jacketing	153.67	11.19
22 07 19 00-0355	EA	10" ID, Aluminum Tee Insulation Jacketing	154.60	11.42
22 07 19 00-0356	EA	10-1/2" ID, Aluminum Tee Insulation Jacketing	162.67	11.66
22 07 19 00-0357	EA	11" ID, Aluminum Tee Insulation Jacketing	163.68	11.91
22 07 19 00-0358	EA	11-1/2" ID, Aluminum Tee Insulation Jacketing	171.06	12.18
22 07 19 00-0359	EA	12" ID, Aluminum Tee Insulation Jacketing	172.17	12.46
22 07 19 00-0360	EA	13" ID, Aluminum Tee Insulation Jacketing	179.42	12.74
22 07 19 00-0361	EA	14" ID, Aluminum Tee Insulation Jacketing	186.93	13.04
22 07 19 00-0362	EA	15" ID, Aluminum Tee Insulation Jacketing	199.19	13.37
22 07 19 00-0363	EA	16" ID, Aluminum Tee Insulation Jacketing	204.20	13.70
22 07 19 00-0364	EA	17" ID, Aluminum Tee Insulation Jacketing	227.96	14.05
22 07 19 00-0365	EA	18" ID, Aluminum Tee Insulation Jacketing	236.13	14.43
22 07 19 00-0366	EA	19" ID, Aluminum Tee Insulation Jacketing	256.57	14.81
22 07 19 00-0367	EA	20" ID, Aluminum Tee Insulation Jacketing	262.53	15.22
22 07 19 00-0368	EA	22" ID, Aluminum Tee Insulation Jacketing	319.13	15.66
22 07 19 00-0369	EA	23" ID, Aluminum Tee Insulation Jacketing	328.10	16.12
22 07 19 00-0370	EA	24" ID, Aluminum Tee Insulation Jacketing	341.20	17.67
22 07 19 00-0371		Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0001)		
22 07 19 00-0372		Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0371)		
22 07 19 00-0373	SF	0.010" Stainless Steel Insulation Jacket With Bands	25.68	10.28
22 07 19 00-0374	SF	0.016" Stainless Steel Insulation Jacket With Bands	31.51	12.33
22 07 19 00-0375		10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)		
22 07 19 00-0376	LF	2-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	13.12	2.19
22 07 19 00-0377	LF	2-3/4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	13.69	2.24
22 07 19 00-0378	LF	3" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	14.25	2.28
22 07 19 00-0379	LF	3-1/4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	14.85	2.33

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0380 LF 3-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	15.44	2.38
22 07 19 00-0381 LF 3-3/4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	16.03	2.43
22 07 19 00-0382 LF 4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	16.65	2.49
22 07 19 00-0383 LF 4-1/4" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	17.26	2.55
22 07 19 00-0384 LF 4-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	17.88	2.61
22 07 19 00-0385 LF 5" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	19.20	2.74
22 07 19 00-0386 LF 5-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	20.54	2.88
22 07 19 00-0387 LF 6" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	21.95	3.05
22 07 19 00-0388 LF 6-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	23.07	3.13
22 07 19 00-0389 LF 7" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	24.21	3.23
22 07 19 00-0390 LF 7-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	25.46	3.34
22 07 19 00-0391 LF 8" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	26.48	3.40
22 07 19 00-0392 LF 8-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	27.50	3.47
22 07 19 00-0393 LF 9" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	28.55	3.54
22 07 19 00-0394 LF 9-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	29.61	3.60
22 07 19 00-0395 LF 10" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	30.66	3.68
22 07 19 00-0396 LF 10-1/2" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	31.75	3.75
22 07 19 00-0397 LF 11" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	32.83	3.83
22 07 19 00-0398 LF 12" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	35.04	4.00
22 07 19 00-0399 LF 13" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	37.20	4.16
22 07 19 00-0400 LF 14" ID, 0.010" Thick (10 Mil), Stainless Steel Insulation Jacketing	39.00	4.22

22 07 19 00-0401 16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)

22 07 19 00-0402 LF 2-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	17.97	2.92
22 07 19 00-0403 LF 2-3/4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	18.77	2.98
22 07 19 00-0404 LF 3" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	19.58	3.04
22 07 19 00-0405 LF 3-1/4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	20.42	3.10
22 07 19 00-0406 LF 3-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	21.24	3.17
22 07 19 00-0407 LF 3-3/4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	22.07	3.24
22 07 19 00-0408 LF 4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	22.93	3.31
22 07 19 00-0409 LF 4-1/4" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	23.80	3.39
22 07 19 00-0410 LF 4-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	24.68	3.47
22 07 19 00-0411 LF 5" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	26.51	3.64
22 07 19 00-0412 LF 5-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	28.39	3.83
22 07 19 00-0413 LF 6" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	30.36	4.05
22 07 19 00-0414 LF 6-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	31.94	4.17
22 07 19 00-0415 LF 7" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	33.57	4.29
22 07 19 00-0416 LF 7-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	35.30	4.45
22 07 19 00-0417 LF 8" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	36.76	4.53
22 07 19 00-0418 LF 8-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	38.21	4.61
22 07 19 00-0419 LF 9" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	39.71	4.70
22 07 19 00-0420 LF 9-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	41.19	4.79
22 07 19 00-0421 LF 10" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	42.70	4.89
22 07 19 00-0422 LF 10-1/2" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	44.24	4.99
22 07 19 00-0423 LF 11" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	45.77	5.09
22 07 19 00-0424 LF 12" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	48.89	5.32
22 07 19 00-0425 LF 13" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	51.94	5.52
22 07 19 00-0426 LF 14" ID, 0.016" Thick (16 Mil), Stainless Steel Insulation Jacketing	54.52	5.61

22 07 19 00-0427 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0371)

22 07 19 00-0428 EA 2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	36.63	4.35
22 07 19 00-0429 EA 2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	37.05	4.46
22 07 19 00-0430 EA 3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	38.37	4.57
22 07 19 00-0431 EA 3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	38.83	4.68
22 07 19 00-0432 EA 3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	40.19	4.76
22 07 19 00-0433 EA 3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	41.72	4.85
22 07 19 00-0434 EA 4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	44.45	4.98
22 07 19 00-0435 EA 4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	52.91	5.07
22 07 19 00-0436 EA 4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	53.29	5.16
22 07 19 00-0437 EA 5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	54.85	5.38
22 07 19 00-0438 EA 5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	72.33	5.65
22 07 19 00-0439 EA 6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	78.42	5.95
22 07 19 00-0440 EA 6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	100.34	6.29
22 07 19 00-0441 EA 7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	100.93	6.45
22 07 19 00-0442 EA 7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	114.15	6.61
22 07 19 00-0443 EA 8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	115.14	6.85
22 07 19 00-0444 EA 8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	118.12	6.85
22 07 19 00-0445 EA 9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	166.09	7.02
22 07 19 00-0446 EA 9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	164.06	7.12
22 07 19 00-0447 EA 10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	164.43	7.21
22 07 19 00-0448 EA 10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	191.45	7.30
22 07 19 00-0449 EA 11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	184.50	7.40
22 07 19 00-0450 EA 12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	206.70	7.72
22 07 19 00-0451 EA 13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	275.83	8.06
22 07 19 00-0452 EA 14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	278.45	8.30
22 07 19 00-0453 EA 2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	33.43	4.35
22 07 19 00-0454 EA 2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	33.85	4.46



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 07 19 00-0455	EA	3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	35.51		4.57
22 07 19 00-0456	EA	3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	35.97		4.68
22 07 19 00-0457	EA	3-1/2" ID Stainless Steel 45 Degree Elbow Insulation Jacketing	36.53		4.76
22 07 19 00-0458	EA	3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	36.86		4.85
22 07 19 00-0459	EA	4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	42.36		4.98
22 07 19 00-0460	EA	4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	51.80		5.07
22 07 19 00-0461	EA	4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	52.18		5.16
22 07 19 00-0462	EA	4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	52.58		5.27
22 07 19 00-0463	EA	5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	53.53		5.38
22 07 19 00-0464	EA	5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	54.64		5.65
22 07 19 00-0465	EA	6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	61.84		5.95
22 07 19 00-0466	EA	6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	63.21		6.29
22 07 19 00-0467	EA	7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	90.10		6.45
22 07 19 00-0468	EA	7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	92.05		6.61
22 07 19 00-0469	EA	8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	92.37		6.69
22 07 19 00-0470	EA	8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	104.20		6.85
22 07 19 00-0471	EA	9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	104.90		7.02
22 07 19 00-0472	EA	9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	118.64		7.12
22 07 19 00-0473	EA	10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	119.01		7.21
22 07 19 00-0474	EA	10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	137.59		7.30
22 07 19 00-0475	EA	11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	138.00		7.40
22 07 19 00-0476	EA	12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	148.57		7.72
22 07 19 00-0477	EA	13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	170.72		8.06
22 07 19 00-0478	Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0001)				
22 07 19 00-0479	20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)				
22 07 19 00-0480	LF	1-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	9.38		2.03
22 07 19 00-0481	LF	2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	10.12		2.11
22 07 19 00-0482	LF	2-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	10.77		2.19
22 07 19 00-0483	LF	3" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	11.55		2.28
22 07 19 00-0484	LF	3-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	12.27		2.38
22 07 19 00-0485	LF	4" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	13.08		2.49
22 07 19 00-0486	LF	4-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	13.92		2.61
22 07 19 00-0487	LF	5" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	14.76		2.74
22 07 19 00-0488	LF	5-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	15.70		2.88
22 07 19 00-0489	LF	6" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	16.71		3.05
22 07 19 00-0490	LF	6-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	17.43		3.13
22 07 19 00-0491	LF	7" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	18.11		3.23
22 07 19 00-0492	LF	7-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	19.01		3.34
22 07 19 00-0493	LF	8" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	19.57		3.40
22 07 19 00-0494	LF	8-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	20.19		3.47
22 07 19 00-0495	LF	9" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	20.83		3.54
22 07 19 00-0496	LF	9-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	21.49		3.60
22 07 19 00-0497	LF	10" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	22.09		3.68
22 07 19 00-0498	LF	10-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	22.76		3.75
22 07 19 00-0499	LF	11" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	23.45		3.83
22 07 19 00-0500	LF	11-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	24.14		3.91
22 07 19 00-0501	LF	12" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	24.80		4.00
22 07 19 00-0502	LF	12-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	25.58		4.09
22 07 19 00-0503	LF	13" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	26.14		4.16
22 07 19 00-0504	LF	13-1/2" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	26.51		4.16
22 07 19 00-0505	LF	14" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	27.15		4.22
22 07 19 00-0506	LF	15" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	28.14		4.28
22 07 19 00-0507	LF	16" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	29.10		4.35
22 07 19 00-0508	LF	17" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	30.11		4.42
22 07 19 00-0509	LF	18" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	31.14		4.49
22 07 19 00-0510	LF	19" ID, 0.02" Thick (20 Mil), Chloride (PVC) Insulation Jacketing	32.13		4.57
22 07 19 00-0511	LF	20" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	33.18		4.64
22 07 19 00-0512	LF	21" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	34.17		4.72
22 07 19 00-0513	LF	22" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	35.25		4.81
22 07 19 00-0514	LF	23" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	36.27		4.89
22 07 19 00-0515	LF	24" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	37.36		4.98
22 07 19 00-0516	LF	25" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	38.48		5.07
22 07 19 00-0517	LF	26" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	39.55		5.16
22 07 19 00-0518	LF	27" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	40.68		5.27
22 07 19 00-0519	LF	28" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	41.78		5.38
22 07 19 00-0520	LF	29" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	42.95		5.48
22 07 19 00-0521	LF	30" ID, 0.02" Thick (20 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	44.12		5.59
22 07 19 00-0522	30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)				
22 07 19 00-0523	LF	2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	10.91		2.11
22 07 19 00-0524	LF	2-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	11.77		2.19
22 07 19 00-0525	LF	3" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	12.71		2.28
22 07 19 00-0526	LF	3-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	13.59		2.38
22 07 19 00-0527	LF	4" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	14.55		2.49
22 07 19 00-0528	LF	4-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	15.55		2.61
22 07 19 00-0529	LF	5" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	16.61		2.74
22 07 19 00-0530	LF	5-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing	17.71		2.88

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0531 LF 6" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	18.87	3.05
22 07 19 00-0532 LF 6-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	19.75	3.13
22 07 19 00-0533 LF 7" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	20.64	3.23
22 07 19 00-0534 LF 7-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	21.70	3.34
22 07 19 00-0535 LF 8" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	22.47	3.40
22 07 19 00-0536 LF 8-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	23.25	3.47
22 07 19 00-0537 LF 9" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	24.05	3.54
22 07 19 00-0538 LF 9-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	24.86	3.60
22 07 19 00-0539 LF 10" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	25.67	3.68
22 07 19 00-0540 LF 10-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	26.50	3.75
22 07 19 00-0541 LF 11" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	27.34	3.83
22 07 19 00-0542 LF 11-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	28.20	3.91
22 07 19 00-0543 LF 12" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	29.07	4.00
22 07 19 00-0544 LF 12-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	30.01	4.09
22 07 19 00-0545 LF 13" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	30.78	4.16
22 07 19 00-0546 LF 13-1/2" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	31.30	4.16
22 07 19 00-0547 LF 14" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	32.10	4.22
22 07 19 00-0548 LF 15" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	33.41	4.28
22 07 19 00-0549 LF 16" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	34.74	4.35
22 07 19 00-0550 LF 17" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	36.06	4.42
22 07 19 00-0551 LF 18" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	37.47	4.49
22 07 19 00-0552 LF 19" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	38.82	4.57
22 07 19 00-0553 LF 20" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	40.19	4.64
22 07 19 00-0554 LF 21" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	41.55	4.72
22 07 19 00-0555 LF 22" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	42.94	4.81
22 07 19 00-0556 LF 23" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	44.34	4.89
22 07 19 00-0557 LF 24" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	45.74	4.98
22 07 19 00-0558 LF 25" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	47.23	5.07
22 07 19 00-0559 LF 26" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	48.66	5.16
22 07 19 00-0560 LF 27" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	50.12	5.27
22 07 19 00-0561 LF 28" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	51.58	5.38
22 07 19 00-0562 LF 29" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	53.06	5.48
22 07 19 00-0563 LF 30" ID, 0.03" Thick (30 Mil), Polyvinyl Chloride (PVC) Insulation Jacketing.....	54.56	5.59

22 07 19 00-0564 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-

22 07 19 00-0565 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	19.14	4.06
22 07 19 00-0566 EA 2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	20.45	4.22
22 07 19 00-0567 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	21.13	4.28
22 07 19 00-0568 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	21.83	4.35
22 07 19 00-0569 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	22.62	4.46
22 07 19 00-0570 EA 3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	23.33	4.57
22 07 19 00-0571 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	24.63	4.72
22 07 19 00-0572 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	25.83	4.85
22 07 19 00-0573 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	28.04	4.98
22 07 19 00-0574 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	30.68	5.22
22 07 19 00-0575 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	33.36	5.48
22 07 19 00-0576 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	38.14	5.77
22 07 19 00-0577 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	49.50	6.09
22 07 19 00-0578 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	51.65	6.29
22 07 19 00-0579 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	58.94	6.45
22 07 19 00-0580 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	61.19	6.61
22 07 19 00-0581 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	72.14	6.85
22 07 19 00-0582 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	88.23	7.12
22 07 19 00-0583 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	96.34	7.40
22 07 19 00-0584 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	107.34	7.72
22 07 19 00-0585 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	128.78	8.06
22 07 19 00-0586 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	143.56	8.30
22 07 19 00-0587 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	152.82	8.56
22 07 19 00-0588 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	164.21	8.70
22 07 19 00-0589 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	178.96	8.84
22 07 19 00-0590 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	221.16	8.99
22 07 19 00-0591 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	288.01	9.13
22 07 19 00-0592 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	360.34	9.29
22 07 19 00-0593 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	19.14	4.06
22 07 19 00-0594 EA 2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	20.45	4.22
22 07 19 00-0595 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	21.13	4.28
22 07 19 00-0596 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	21.83	4.35
22 07 19 00-0597 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	22.62	4.46
22 07 19 00-0598 EA 3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	23.33	4.57
22 07 19 00-0599 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	24.63	4.72
22 07 19 00-0600 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	25.83	4.85
22 07 19 00-0601 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	28.04	4.98
22 07 19 00-0602 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	30.68	5.22
22 07 19 00-0603 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	33.36	5.48
22 07 19 00-0604 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	38.14	5.77
22 07 19 00-0605 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	49.50	6.09
22 07 19 00-0606 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	51.65	6.29
22 07 19 00-0607 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	58.94	6.45
22 07 19 00-0608 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	61.19	6.61
22 07 19 00-0609 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	72.14	6.85



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0610	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	88.23	7.12
22 07 19 00-0611	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	96.29	7.40
22 07 19 00-0612	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	104.39	7.72
22 07 19 00-0613	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	114.29	8.06
22 07 19 00-0614	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	126.96	8.30
22 07 19 00-0615	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	134.85	8.56
22 07 19 00-0616	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	149.67	8.70
22 07 19 00-0617	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	164.73	8.84
22 07 19 00-0618	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	194.02	8.99
22 07 19 00-0619	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	252.18	9.13
22 07 19 00-0620	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	281.40	9.29
22 07 19 00-0621	EA	1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	28.32	5.71
22 07 19 00-0622	EA	2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	29.54	5.83
22 07 19 00-0623	EA	2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	30.84	6.02
22 07 19 00-0624	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	32.29	6.22
22 07 19 00-0625	EA	2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	33.91	6.45
22 07 19 00-0626	EA	3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	35.53	6.69
22 07 19 00-0627	EA	3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	37.87	6.94
22 07 19 00-0628	EA	3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	40.33	7.21
22 07 19 00-0629	EA	4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	43.63	7.51
22 07 19 00-0630	EA	4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	48.23	7.83
22 07 19 00-0631	EA	5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	53.05	8.18
22 07 19 00-0632	EA	5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	61.82	8.70
22 07 19 00-0633	EA	6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	72.06	9.13
22 07 19 00-0634	EA	6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	81.10	9.29
22 07 19 00-0635	EA	7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	109.49	9.61
22 07 19 00-0636	EA	7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	118.48	10.15
22 07 19 00-0637	EA	8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	136.91	10.54
22 07 19 00-0638	EA	9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	155.56	10.97
22 07 19 00-0639	EA	10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	158.71	11.42
22 07 19 00-0640	EA	11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	172.22	11.66
22 07 19 00-0641	EA	12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	185.77	11.91
22 07 19 00-0642	EA	14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	199.48	12.18
22 07 19 00-0643	EA	15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	213.08	12.46
22 07 19 00-0644	EA	16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	226.83	12.74
22 07 19 00-0645	EA	17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	240.48	13.04
22 07 19 00-0646	EA	18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	260.72	13.37
22 07 19 00-0647	EA	19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	280.93	13.70
22 07 19 00-0648	EA	20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	305.36	14.05
22 07 19 00-0649	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	38.58	3.91
22 07 19 00-0650	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	38.58	3.91
22 07 19 00-0651	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	45.28	4.06
22 07 19 00-0652	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	45.28	4.06
22 07 19 00-0653	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	62.66	4.22
22 07 19 00-0654	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	68.38	4.39
22 07 19 00-0655	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	75.24	4.57
22 07 19 00-0656	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	84.99	4.76
22 07 19 00-0657	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	93.38	4.98
22 07 19 00-0658	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	113.24	5.48
22 07 19 00-0659	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	159.26	6.09
22 07 19 00-0660	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	174.32	6.85
22 07 19 00-0661	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	217.19	7.30
22 07 19 00-0662	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	302.58	8.06
22 07 19 00-0663	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	304.53	8.43
22 07 19 00-0664	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	403.09	8.70
22 07 19 00-0665	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	542.45	8.99
22 07 19 00-0666	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	36.05	3.91
22 07 19 00-0667	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	36.05	3.91
22 07 19 00-0668	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	42.22	4.06
22 07 19 00-0669	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	42.22	4.06
22 07 19 00-0670	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	57.66	4.22
22 07 19 00-0671	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	62.80	4.39
22 07 19 00-0672	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	69.12	4.57
22 07 19 00-0673	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	72.72	4.76
22 07 19 00-0674	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	85.26	4.98
22 07 19 00-0675	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	103.18	5.48
22 07 19 00-0676	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	144.46	6.09
22 07 19 00-0677	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	158.09	6.85
22 07 19 00-0678	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	196.53	7.30
22 07 19 00-0679	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	273.01	8.06
22 07 19 00-0680	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	346.90	8.43
22 07 19 00-0681	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	414.21	8.70
22 07 19 00-0682	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	483.75	8.99
22 07 19 00-0683	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	53.45	5.89
22 07 19 00-0684	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	53.45	5.89
22 07 19 00-0685	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	62.09	6.09
22 07 19 00-0686	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	62.09	6.09
22 07 19 00-0687	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	84.69	6.29
22 07 19 00-0688	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	92.29	6.53
22 07 19 00-0689	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	101.44	6.85
22 07 19 00-0690	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	106.94	7.12

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0691 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	125.83	7.51
22 07 19 00-0692 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	138.26	8.18
22 07 19 00-0693 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	192.68	9.13
22 07 19 00-0694 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	209.85	10.15
22 07 19 00-0695 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	288.25	10.97
22 07 19 00-0696 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	398.98	11.91
22 07 19 00-0697 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	475.35	12.74
22 07 19 00-0698 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	561.24	13.04
22 07 19 00-0699 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	614.26	13.37
 22 07 19 00-0700 Insulation Foam Rubber (22 07 19)		
22 07 19 00-0701 Covering 4x6 Sheet (22 07 19 00-0700)		
22 07 19 00-0702 SF 1" Thick Foam Rubber Sheet Insulation	27.57	9.72
 22 07 19 00-0703 Fiberglass (Glass Fiber) Pipe Insulation (22 07 19)		
Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0704 1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0705 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	9.86	3.02
For Single Layer Of Felt Finish, Add	0.18	
For Work In Restricted Working Space, Add	2.45	
22 07 19 00-0706 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	10.04	3.02
For Single Layer Of Felt Finish, Add	0.20	
For Work In Restricted Working Space, Add	2.45	
22 07 19 00-0707 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	10.68	3.15
For Single Layer Of Felt Finish, Add	0.21	
For Work In Restricted Working Space, Add	2.60	
22 07 19 00-0708 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	11.05	3.29
For Single Layer Of Felt Finish, Add	0.24	
For Work In Restricted Working Space, Add	2.64	
22 07 19 00-0709 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	11.34	3.29
For Single Layer Of Felt Finish, Add	0.25	
For Work In Restricted Working Space, Add	2.69	
22 07 19 00-0710 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	12.01	3.43
For Single Layer Of Felt Finish, Add	0.27	
For Work In Restricted Working Space, Add	2.84	
22 07 19 00-0711 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	12.54	3.56
For Single Layer Of Felt Finish, Add	0.31	
For Work In Restricted Working Space, Add	2.89	
22 07 19 00-0712 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	13.21	3.70
For Single Layer Of Felt Finish, Add	0.34	
For Work In Restricted Working Space, Add	2.99	
22 07 19 00-0713 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	14.94	3.97
For Single Layer Of Felt Finish, Add	0.44	
For Work In Restricted Working Space, Add	3.23	
22 07 19 00-0714 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket	17.62	4.66
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	3.77	
 22 07 19 00-0715 1" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0716 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	13.29	4.11
For Single Layer Of Felt Finish, Add	0.21	
For Work In Restricted Working Space, Add	3.38	
22 07 19 00-0717 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	13.59	4.11
For Single Layer Of Felt Finish, Add	0.24	
For Work In Restricted Working Space, Add	3.38	
22 07 19 00-0718 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	13.79	4.11
For Single Layer Of Felt Finish, Add	0.25	
For Work In Restricted Working Space, Add	3.43	
22 07 19 00-0719 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	14.27	4.25
For Single Layer Of Felt Finish, Add	0.28	
For Work In Restricted Working Space, Add	3.47	
22 07 19 00-0720 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	14.63	4.25
For Single Layer Of Felt Finish, Add	0.30	
For Work In Restricted Working Space, Add	3.52	
22 07 19 00-0721 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	15.21	4.39
For Single Layer Of Felt Finish, Add	0.33	
For Work In Restricted Working Space, Add	3.62	
22 07 19 00-0722 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	16.04	4.66
For Single Layer Of Felt Finish, Add	0.37	
For Work In Restricted Working Space, Add	3.77	
22 07 19 00-0723 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	16.81	4.79
For Single Layer Of Felt Finish, Add	0.41	
For Work In Restricted Working Space, Add	3.86	
22 07 19 00-0724 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket	18.92	5.07
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	4.16	



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0725	LF		6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket.....	21.83	5.89
			For Single Layer Of Felt Finish, Add	0.65	
			For Work In Restricted Working Space, Add	4.69	
22 07 19 00-0726	LF		8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket.....	26.79	6.58
			For Single Layer Of Felt Finish, Add	0.93	
			For Work In Restricted Working Space, Add	5.38	
22 07 19 00-0727	LF		10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket.....	31.52	7.81
			For Single Layer Of Felt Finish, Add	1.08	
			For Work In Restricted Working Space, Add	6.36	
22 07 19 00-0728	LF		12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket.....	36.18	8.91
			For Single Layer Of Felt Finish, Add	1.23	
			For Work In Restricted Working Space, Add	7.34	
22 07 19 00-0729	LF		14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket.....	38.90	9.72
			For Single Layer Of Felt Finish, Add	1.43	
			For Work In Restricted Working Space, Add	7.60	
22 07 19 00-0730 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)					
22 07 19 00-0731	LF		1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	15.86	4.24
			For Single Layer Of Felt Finish, Add	0.43	
			For Work In Restricted Working Space, Add	3.52	
22 07 19 00-0732	LF		3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	16.05	4.24
			For Single Layer Of Felt Finish, Add	0.45	
			For Work In Restricted Working Space, Add	3.52	
22 07 19 00-0733	LF		1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	16.96	4.48
			For Single Layer Of Felt Finish, Add	0.48	
			For Work In Restricted Working Space, Add	3.73	
22 07 19 00-0734	LF		1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	17.53	4.58
			For Single Layer Of Felt Finish, Add	0.51	
			For Work In Restricted Working Space, Add	3.80	
22 07 19 00-0735	LF		1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	18.03	4.66
			For Single Layer Of Felt Finish, Add	0.54	
			For Work In Restricted Working Space, Add	3.87	
22 07 19 00-0736	LF		2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	19.21	4.90
			For Single Layer Of Felt Finish, Add	0.59	
			For Work In Restricted Working Space, Add	4.08	
22 07 19 00-0737	LF		2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	20.00	4.98
			For Single Layer Of Felt Finish, Add	0.65	
			For Work In Restricted Working Space, Add	4.15	
22 07 19 00-0738	LF		3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	20.65	5.16
			For Single Layer Of Felt Finish, Add	0.67	
			For Work In Restricted Working Space, Add	4.29	
22 07 19 00-0739	LF		4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	22.74	5.59
			For Single Layer Of Felt Finish, Add	0.76	
			For Work In Restricted Working Space, Add	4.64	
22 07 19 00-0740	LF		6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	26.36	6.52
			For Single Layer Of Felt Finish, Add	0.87	
			For Work In Restricted Working Space, Add	5.42	
22 07 19 00-0741	LF		8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	29.46	6.88
			For Single Layer Of Felt Finish, Add	1.09	
			For Work In Restricted Working Space, Add	5.72	
22 07 19 00-0742	LF		10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	35.93	8.23
			For Single Layer Of Felt Finish, Add	1.38	
			For Work In Restricted Working Space, Add	6.84	
22 07 19 00-0743	LF		12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	40.84	9.59
			For Single Layer Of Felt Finish, Add	1.50	
			For Work In Restricted Working Space, Add	7.97	
22 07 19 00-0744	LF		14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	45.64	10.51
			For Single Layer Of Felt Finish, Add	1.74	
			For Work In Restricted Working Space, Add	8.73	
22 07 19 00-0745 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)					
22 07 19 00-0746	LF		1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	19.35	4.66
			For Single Layer Of Felt Finish, Add	0.68	
			For Work In Restricted Working Space, Add	3.86	
22 07 19 00-0747	LF		3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	19.57	4.66
			For Single Layer Of Felt Finish, Add	0.70	
			For Work In Restricted Working Space, Add	3.86	
22 07 19 00-0748	LF		1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	20.20	4.79
			For Single Layer Of Felt Finish, Add	0.75	
			For Work In Restricted Working Space, Add	3.91	
22 07 19 00-0749	LF		1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	20.77	4.79
			For Single Layer Of Felt Finish, Add	0.79	
			For Work In Restricted Working Space, Add	3.96	
22 07 19 00-0750	LF		1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	21.37	4.93
			For Single Layer Of Felt Finish, Add	0.84	
			For Work In Restricted Working Space, Add	4.01	
22 07 19 00-0751	LF		2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	22.16	5.07
			For Single Layer Of Felt Finish, Add	0.87	
			For Work In Restricted Working Space, Add	4.16	
22 07 19 00-0752	LF		2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	23.28	5.21
			For Single Layer Of Felt Finish, Add	0.94	
			For Work In Restricted Working Space, Add	4.31	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0753 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	24.46	5.48
For Single Layer Of Felt Finish, Add	1.01	
For Work In Restricted Working Space, Add	4.45	
22 07 19 00-0754 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	26.68	5.75
For Single Layer Of Felt Finish, Add	1.16	
For Work In Restricted Working Space, Add	4.70	
22 07 19 00-0755 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	31.59	6.76
For Single Layer Of Felt Finish, Add	1.35	
For Work In Restricted Working Space, Add	5.63	
22 07 19 00-0756 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	35.65	7.14
For Single Layer Of Felt Finish, Add	1.66	
For Work In Restricted Working Space, Add	5.95	
22 07 19 00-0757 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	42.67	8.53
For Single Layer Of Felt Finish, Add	1.99	
For Work In Restricted Working Space, Add	7.12	
22 07 19 00-0758 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	49.22	10.24
For Single Layer Of Felt Finish, Add	2.18	
For Work In Restricted Working Space, Add	8.53	
22 07 19 00-0759 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	63.17	11.17
For Single Layer Of Felt Finish, Add	2.47	
For Work In Restricted Working Space, Add	11.90	
22 07 19 00-0760 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	66.43	13.08
For Single Layer Of Felt Finish, Add	2.81	
For Work In Restricted Working Space, Add	11.90	
22 07 19 00-0761 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	73.44	13.74
For Single Layer Of Felt Finish, Add	3.34	
For Work In Restricted Working Space, Add	12.49	
22 07 19 00-0762 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	83.28	15.70
For Single Layer Of Felt Finish, Add	3.75	
For Work In Restricted Working Space, Add	14.27	
22 07 19 00-0763 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket.....	97.07	18.97
For Single Layer Of Felt Finish, Add	4.16	
For Work In Restricted Working Space, Add	17.25	
22 07 19 00-0764 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0765 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	23.86	5.48
For Single Layer Of Felt Finish, Add	0.95	
For Work In Restricted Working Space, Add	4.46	
22 07 19 00-0766 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	24.17	5.48
For Single Layer Of Felt Finish, Add	0.98	
For Work In Restricted Working Space, Add	4.46	
22 07 19 00-0767 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	25.08	5.48
For Single Layer Of Felt Finish, Add	1.05	
For Work In Restricted Working Space, Add	4.53	
22 07 19 00-0768 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	25.75	5.62
For Single Layer Of Felt Finish, Add	1.11	
For Work In Restricted Working Space, Add	4.56	
22 07 19 00-0769 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	26.46	5.62
For Single Layer Of Felt Finish, Add	1.17	
For Work In Restricted Working Space, Add	4.60	
22 07 19 00-0770 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	27.55	5.89
For Single Layer Of Felt Finish, Add	1.22	
For Work In Restricted Working Space, Add	4.79	
22 07 19 00-0771 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	29.05	6.03
For Single Layer Of Felt Finish, Add	1.32	
For Work In Restricted Working Space, Add	4.95	
22 07 19 00-0772 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	30.44	6.30
For Single Layer Of Felt Finish, Add	1.40	
For Work In Restricted Working Space, Add	5.13	
22 07 19 00-0773 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	33.57	6.58
For Single Layer Of Felt Finish, Add	1.63	
For Work In Restricted Working Space, Add	5.41	
22 07 19 00-0774 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	38.46	6.99
For Single Layer Of Felt Finish, Add	1.89	
For Work In Restricted Working Space, Add	6.14	
22 07 19 00-0775 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	50.80	8.35
For Single Layer Of Felt Finish, Add	2.94	
For Work In Restricted Working Space, Add	6.85	
22 07 19 00-0776 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	60.55	9.59
For Single Layer Of Felt Finish, Add	3.59	
For Work In Restricted Working Space, Add	7.90	
22 07 19 00-0777 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	69.16	11.92
For Single Layer Of Felt Finish, Add	3.83	
For Work In Restricted Working Space, Add	9.82	
22 07 19 00-0778 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	78.06	13.15
For Single Layer Of Felt Finish, Add	4.44	
For Work In Restricted Working Space, Add	10.72	
22 07 19 00-0779 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	92.31	16.71
For Single Layer Of Felt Finish, Add	4.90	
For Work In Restricted Working Space, Add	13.70	
22 07 19 00-0780 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	99.13	17.53
For Single Layer Of Felt Finish, Add	5.37	
For Work In Restricted Working Space, Add	14.39	



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Plumbing Insulation			22 07	
Plumbing Piping Insulation			22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0781	LF		20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	112.55	20.00
			For Single Layer Of Felt Finish, Add	6.06	
			For Work In Restricted Working Space, Add	16.44	
22 07 19 00-0782	LF		24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	132.59	24.17
			For Single Layer Of Felt Finish, Add	6.97	
			For Work In Restricted Working Space, Add	19.86	
22 07 19 00-0783 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)					
22 07 19 00-0784	LF		1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	26.32	6.05
			For Single Layer Of Felt Finish, Add	1.04	
			For Work In Restricted Working Space, Add	4.93	
22 07 19 00-0785	LF		3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	26.66	6.05
			For Single Layer Of Felt Finish, Add	1.07	
			For Work In Restricted Working Space, Add	4.93	
22 07 19 00-0786	LF		1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	27.57	6.11
			For Single Layer Of Felt Finish, Add	1.15	
			For Work In Restricted Working Space, Add	4.98	
22 07 19 00-0787	LF		1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	28.30	6.15
			For Single Layer Of Felt Finish, Add	1.21	
			For Work In Restricted Working Space, Add	5.02	
22 07 19 00-0788	LF		1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	29.13	6.22
			For Single Layer Of Felt Finish, Add	1.28	
			For Work In Restricted Working Space, Add	5.07	
22 07 19 00-0789	LF		2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	30.25	6.46
			For Single Layer Of Felt Finish, Add	1.34	
			For Work In Restricted Working Space, Add	5.26	
22 07 19 00-0790	LF		2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	31.91	6.67
			For Single Layer Of Felt Finish, Add	1.45	
			For Work In Restricted Working Space, Add	5.44	
22 07 19 00-0791	LF		3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	33.43	6.92
			For Single Layer Of Felt Finish, Add	1.54	
			For Work In Restricted Working Space, Add	5.63	
22 07 19 00-0792	LF		4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	36.89	7.30
			For Single Layer Of Felt Finish, Add	1.79	
			For Work In Restricted Working Space, Add	5.95	
22 07 19 00-0793	LF		6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	42.26	8.29
			For Single Layer Of Felt Finish, Add	2.07	
			For Work In Restricted Working Space, Add	6.76	
22 07 19 00-0794	LF		8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	55.79	9.23
			For Single Layer Of Felt Finish, Add	3.22	
			For Work In Restricted Working Space, Add	7.53	
22 07 19 00-0795	LF		10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	66.52	10.66
			For Single Layer Of Felt Finish, Add	3.94	
			For Work In Restricted Working Space, Add	8.69	
22 07 19 00-0796	LF		12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	75.99	13.24
			For Single Layer Of Felt Finish, Add	4.20	
			For Work In Restricted Working Space, Add	10.80	
22 07 19 00-0797	LF		14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	85.76	14.47
			For Single Layer Of Felt Finish, Add	4.88	
			For Work In Restricted Working Space, Add	11.79	
22 07 19 00-0798	LF		16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	101.42	18.48
			For Single Layer Of Felt Finish, Add	5.37	
			For Work In Restricted Working Space, Add	15.07	
22 07 19 00-0799	LF		18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	108.92	19.42
			For Single Layer Of Felt Finish, Add	5.90	
			For Work In Restricted Working Space, Add	15.83	
22 07 19 00-0800	LF		20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	123.68	22.19
			For Single Layer Of Felt Finish, Add	6.65	
			For Work In Restricted Working Space, Add	18.09	
22 07 19 00-0801	LF		24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket.....	145.69	26.80
			For Single Layer Of Felt Finish, Add	7.65	
			For Work In Restricted Working Space, Add	21.85	
22 07 19 00-0802 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)					
22 07 19 00-0803	LF		1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	28.42	6.58
			For Single Layer Of Felt Finish, Add	1.09	
			For Work In Restricted Working Space, Add	5.41	
22 07 19 00-0804	LF		3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	28.82	6.58
			For Single Layer Of Felt Finish, Add	1.13	
			For Work In Restricted Working Space, Add	5.41	
22 07 19 00-0805	LF		1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	30.14	6.58
			For Single Layer Of Felt Finish, Add	1.26	
			For Work In Restricted Working Space, Add	5.44	
22 07 19 00-0806	LF		1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	30.90	6.72
			For Single Layer Of Felt Finish, Add	1.33	
			For Work In Restricted Working Space, Add	5.48	
22 07 19 00-0807	LF		1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	31.84	6.72
			For Single Layer Of Felt Finish, Add	1.40	
			For Work In Restricted Working Space, Add	5.55	
22 07 19 00-0808	LF		2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	33.01	6.99
			For Single Layer Of Felt Finish, Add	1.46	
			For Work In Restricted Working Space, Add	5.73	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0809	LF	2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	34.82	7.26
		For Single Layer Of Felt Finish, Add	1.58	
		For Work In Restricted Working Space, Add	5.93	
22 07 19 00-0810	LF	3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	36.40	7.54
		For Single Layer Of Felt Finish, Add	1.67	
		For Work In Restricted Working Space, Add	6.15	
22 07 19 00-0811	LF	4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	40.30	7.95
		For Single Layer Of Felt Finish, Add	1.96	
		For Work In Restricted Working Space, Add	6.50	
22 07 19 00-0812	LF	6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	46.12	9.04
		For Single Layer Of Felt Finish, Add	2.26	
		For Work In Restricted Working Space, Add	7.37	
22 07 19 00-0813	LF	8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	60.92	10.00
		For Single Layer Of Felt Finish, Add	3.52	
		For Work In Restricted Working Space, Add	8.21	
22 07 19 00-0814	LF	10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	72.66	11.51
		For Single Layer Of Felt Finish, Add	4.31	
		For Work In Restricted Working Space, Add	9.48	
22 07 19 00-0815	LF	12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	82.99	14.38
		For Single Layer Of Felt Finish, Add	4.59	
		For Work In Restricted Working Space, Add	11.78	
22 07 19 00-0816	LF	14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	93.68	15.76
		For Single Layer Of Felt Finish, Add	5.34	
		For Work In Restricted Working Space, Add	12.86	
22 07 19 00-0817	LF	16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	110.79	20.00
		For Single Layer Of Felt Finish, Add	5.88	
		For Work In Restricted Working Space, Add	16.44	
22 07 19 00-0818	LF	18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	118.95	21.10
		For Single Layer Of Felt Finish, Add	6.45	
		For Work In Restricted Working Space, Add	17.26	
22 07 19 00-0819	LF	20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	135.12	24.11
		For Single Layer Of Felt Finish, Add	7.28	
		For Work In Restricted Working Space, Add	19.74	
22 07 19 00-0820	LF	24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket.....	159.13	29.04
		For Single Layer Of Felt Finish, Add	8.37	
		For Work In Restricted Working Space, Add	23.84	
22 07 19 00-0821 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)				
22 07 19 00-0822	LF	1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	32.16	7.39
		For Single Layer Of Felt Finish, Add	1.28	
		For Work In Restricted Working Space, Add	6.00	
22 07 19 00-0823	LF	3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	32.59	7.39
		For Single Layer Of Felt Finish, Add	1.32	
		For Work In Restricted Working Space, Add	6.00	
22 07 19 00-0824	LF	1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	33.84	7.39
		For Single Layer Of Felt Finish, Add	1.41	
		For Work In Restricted Working Space, Add	6.11	
22 07 19 00-0825	LF	1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	34.84	7.54
		For Single Layer Of Felt Finish, Add	1.50	
		For Work In Restricted Working Space, Add	6.18	
22 07 19 00-0826	LF	1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	36.26	7.81
		For Single Layer Of Felt Finish, Add	1.58	
		For Work In Restricted Working Space, Add	6.37	
22 07 19 00-0827	LF	2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	37.56	8.08
		For Single Layer Of Felt Finish, Add	1.64	
		For Work In Restricted Working Space, Add	6.57	
22 07 19 00-0828	LF	2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	39.17	8.08
		For Single Layer Of Felt Finish, Add	1.78	
		For Work In Restricted Working Space, Add	6.67	
22 07 19 00-0829	LF	3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	41.10	8.49
		For Single Layer Of Felt Finish, Add	1.89	
		For Work In Restricted Working Space, Add	6.92	
22 07 19 00-0830	LF	4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	45.31	8.91
		For Single Layer Of Felt Finish, Add	2.20	
		For Work In Restricted Working Space, Add	7.30	
22 07 19 00-0831	LF	6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	51.88	10.14
		For Single Layer Of Felt Finish, Add	2.55	
		For Work In Restricted Working Space, Add	8.29	
22 07 19 00-0832	LF	8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	68.54	10.97
		For Single Layer Of Felt Finish, Add	3.96	
		For Work In Restricted Working Space, Add	9.24	
22 07 19 00-0833	LF	10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	81.76	13.01
		For Single Layer Of Felt Finish, Add	4.85	
		For Work In Restricted Working Space, Add	10.67	
22 07 19 00-0834	LF	12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	93.39	16.17
		For Single Layer Of Felt Finish, Add	5.17	
		For Work In Restricted Working Space, Add	13.25	
22 07 19 00-0835	LF	14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	105.43	17.67
		For Single Layer Of Felt Finish, Add	6.00	
		For Work In Restricted Working Space, Add	14.48	
22 07 19 00-0836	LF	16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	124.70	22.61
		For Single Layer Of Felt Finish, Add	6.61	
		For Work In Restricted Working Space, Add	18.51	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0837	LF		18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	133.76	23.71
			For Single Layer Of Felt Finish, Add	7.25	
			For Work In Restricted Working Space, Add	19.40	
22 07 19 00-0838	LF		20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	150.19	27.13
			For Single Layer Of Felt Finish, Add	8.00	
			For Work In Restricted Working Space, Add	22.20	
22 07 19 00-0839	LF		24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	179.04	32.74
			For Single Layer Of Felt Finish, Add	9.41	
			For Work In Restricted Working Space, Add	26.83	
22 07 19 00-0840	LF		26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	204.83	38.64
			For Single Layer Of Felt Finish, Add	10.44	
			For Work In Restricted Working Space, Add	31.61	
22 07 19 00-0841	LF		28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	231.54	45.48
			For Single Layer Of Felt Finish, Add	11.28	
			For Work In Restricted Working Space, Add	37.23	
22 07 19 00-0842	LF		30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	261.96	53.71
			For Single Layer Of Felt Finish, Add	12.07	
			For Work In Restricted Working Space, Add	44.10	
22 07 19 00-0843	LF		36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	317.52	68.28
			For Single Layer Of Felt Finish, Add	13.71	
			For Work In Restricted Working Space, Add	56.07	
22 07 19 00-0844	LF		42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	373.09	83.16
			For Single Layer Of Felt Finish, Add	15.36	
			For Work In Restricted Working Space, Add	68.05	
22 07 19 00-0845	LF		44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	401.91	91.38
			For Single Layer Of Felt Finish, Add	15.95	
			For Work In Restricted Working Space, Add	75.00	
22 07 19 00-0846	LF		46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket.....	427.70	98.37
			For Single Layer Of Felt Finish, Add	16.59	
			For Work In Restricted Working Space, Add	80.91	
22 07 19 00-0847 Foamglas (Cellular Glass) Pipe Insulation, Rigid, Closed Cell (22 07 19)					
Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.					
22 07 19 00-0848 1" Thick Foamglas Pipe Insulation (22 07 19 00-0847)					
22 07 19 00-0849	LF		1/2" Diameter Pipe, 1" Thick Foamglas Insulation.....	23.82	6.69
			For Work In Restricted Working Space, Add	6.08	
22 07 19 00-0850	LF		3/4" Diameter Pipe, 1" Thick Foamglas Insulation.....	24.72	6.69
			For Work In Restricted Working Space, Add	6.08	
22 07 19 00-0851	LF		1" Diameter Pipe, 1" Thick Foamglas Insulation.....	25.93	6.78
			For Work In Restricted Working Space, Add	6.16	
22 07 19 00-0852	LF		1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation.....	26.53	6.88
			For Work In Restricted Working Space, Add	6.25	
22 07 19 00-0853	LF		1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation.....	27.44	6.97
			For Work In Restricted Working Space, Add	6.34	
22 07 19 00-0854	LF		2" Diameter Pipe, 1" Thick Foamglas Insulation.....	29.18	7.16
			For Work In Restricted Working Space, Add	6.52	
22 07 19 00-0855	LF		2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation.....	31.37	7.46
			For Work In Restricted Working Space, Add	6.79	
22 07 19 00-0856	LF		3" Diameter Pipe, 1" Thick Foamglas Insulation.....	33.73	7.66
			For Work In Restricted Working Space, Add	6.96	
22 07 19 00-0857	LF		4" Diameter Pipe, 1" Thick Foamglas Insulation.....	38.84	8.23
			For Work In Restricted Working Space, Add	7.49	
22 07 19 00-0858	LF		6" Diameter Pipe, 1" Thick Foamglas Insulation.....	49.12	9.29
			For Work In Restricted Working Space, Add	8.45	
22 07 19 00-0859 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)					
22 07 19 00-0860	LF		1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	28.03	7.41
			For Work In Restricted Working Space, Add	6.52	
22 07 19 00-0861	LF		3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	28.60	7.41
			For Work In Restricted Working Space, Add	6.52	
22 07 19 00-0862	LF		1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	29.47	7.51
			For Work In Restricted Working Space, Add	6.61	
22 07 19 00-0863	LF		1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	30.16	7.61
			For Work In Restricted Working Space, Add	6.69	
22 07 19 00-0864	LF		1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	30.83	7.71
			For Work In Restricted Working Space, Add	6.78	
22 07 19 00-0865	LF		2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	33.33	7.96
			For Work In Restricted Working Space, Add	7.00	
22 07 19 00-0866	LF		2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	37.57	8.26
			For Work In Restricted Working Space, Add	7.27	
22 07 19 00-0867	LF		3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	41.35	8.50
			For Work In Restricted Working Space, Add	7.49	
22 07 19 00-0868	LF		4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	46.69	9.06
			For Work In Restricted Working Space, Add	7.97	
22 07 19 00-0869	LF		6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	54.89	10.26
			For Work In Restricted Working Space, Add	9.03	
22 07 19 00-0870	LF		8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation.....	61.37	11.44
			For Work In Restricted Working Space, Add	10.07	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0871	LF	10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	74.30	13.19
		<i>For Work In Restricted Working Space, Add</i>	11.61	
22 07 19 00-0872	LF	12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	88.33	16.40
		<i>For Work In Restricted Working Space, Add</i>	14.42	
22 07 19 00-0873	LF	14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	98.06	17.25
		<i>For Work In Restricted Working Space, Add</i>	15.68	
22 07 19 00-0874	LF	16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	108.02	19.27
		<i>For Work In Restricted Working Space, Add</i>	17.51	
22 07 19 00-0875	LF	18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	122.64	22.79
		<i>For Work In Restricted Working Space, Add</i>	20.72	
22 07 19 00-0876	LF	20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	136.95	25.22
		<i>For Work In Restricted Working Space, Add</i>	22.94	
22 07 19 00-0877	LF	24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation	170.19	27.95
		<i>For Work In Restricted Working Space, Add</i>	25.40	
22 07 19 00-0878 2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				
22 07 19 00-0879	LF	1/2" Diameter Pipe, 2" Thick Foamglas Insulation	31.43	7.66
		<i>For Work In Restricted Working Space, Add</i>	6.96	
22 07 19 00-0880	LF	3/4" Diameter Pipe, 2" Thick Foamglas Insulation	32.32	7.66
		<i>For Work In Restricted Working Space, Add</i>	6.96	
22 07 19 00-0881	LF	1" Diameter Pipe, 2" Thick Foamglas Insulation	33.47	7.74
		<i>For Work In Restricted Working Space, Add</i>	7.04	
22 07 19 00-0882	LF	1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation	35.16	7.85
		<i>For Work In Restricted Working Space, Add</i>	7.13	
22 07 19 00-0883	LF	1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	36.87	7.95
		<i>For Work In Restricted Working Space, Add</i>	7.22	
22 07 19 00-0884	LF	2" Diameter Pipe, 2" Thick Foamglas Insulation	41.09	8.23
		<i>For Work In Restricted Working Space, Add</i>	7.49	
22 07 19 00-0885	LF	2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	43.05	8.53
		<i>For Work In Restricted Working Space, Add</i>	7.75	
22 07 19 00-0886	LF	3" Diameter Pipe, 2" Thick Foamglas Insulation	46.13	8.81
		<i>For Work In Restricted Working Space, Add</i>	8.01	
22 07 19 00-0887	LF	4" Diameter Pipe, 2" Thick Foamglas Insulation	51.80	9.30
		<i>For Work In Restricted Working Space, Add</i>	8.45	
22 07 19 00-0888	LF	6" Diameter Pipe, 2" Thick Foamglas Insulation	61.85	10.56
		<i>For Work In Restricted Working Space, Add</i>	9.60	
22 07 19 00-0889	LF	8" Diameter Pipe, 2" Thick Foamglas Insulation	68.85	11.78
		<i>For Work In Restricted Working Space, Add</i>	10.71	
22 07 19 00-0890	LF	10" Diameter Pipe, 2" Thick Foamglas Insulation	83.63	13.58
		<i>For Work In Restricted Working Space, Add</i>	12.35	
22 07 19 00-0891	LF	12" Diameter Pipe, 2" Thick Foamglas Insulation	103.60	16.88
		<i>For Work In Restricted Working Space, Add</i>	15.34	
22 07 19 00-0892	LF	14" Diameter Pipe, 2" Thick Foamglas Insulation	110.76	18.43
		<i>For Work In Restricted Working Space, Add</i>	16.75	
22 07 19 00-0893	LF	16" Diameter Pipe, 2" Thick Foamglas Insulation	131.32	23.55
		<i>For Work In Restricted Working Space, Add</i>	21.41	
22 07 19 00-0894	LF	18" Diameter Pipe, 2" Thick Foamglas Insulation	142.97	24.72
		<i>For Work In Restricted Working Space, Add</i>	22.47	
22 07 19 00-0895	LF	20" Diameter Pipe, 2" Thick Foamglas Insulation	158.35	28.27
		<i>For Work In Restricted Working Space, Add</i>	25.69	
22 07 19 00-0896	LF	24" Diameter Pipe, 2" Thick Foamglas Insulation	198.36	34.15
		<i>For Work In Restricted Working Space, Add</i>	31.04	
22 07 19 00-0897 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				
22 07 19 00-0898	LF	1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	37.96	8.30
		<i>For Work In Restricted Working Space, Add</i>	7.55	
22 07 19 00-0899	LF	3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	39.45	8.29
		<i>For Work In Restricted Working Space, Add</i>	7.54	
22 07 19 00-0900	LF	1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	41.40	8.42
		<i>For Work In Restricted Working Space, Add</i>	7.67	
22 07 19 00-0901	LF	1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	43.10	8.49
		<i>For Work In Restricted Working Space, Add</i>	7.72	
22 07 19 00-0902	LF	1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	44.82	8.56
		<i>For Work In Restricted Working Space, Add</i>	7.78	
22 07 19 00-0903	LF	2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	47.99	8.91
		<i>For Work In Restricted Working Space, Add</i>	8.10	
22 07 19 00-0904	LF	2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	51.02	9.22
		<i>For Work In Restricted Working Space, Add</i>	8.38	
22 07 19 00-0905	LF	3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	55.32	9.53
		<i>For Work In Restricted Working Space, Add</i>	8.67	
22 07 19 00-0906	LF	4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	61.87	10.06
		<i>For Work In Restricted Working Space, Add</i>	9.14	
22 07 19 00-0907	LF	6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	73.87	11.44
		<i>For Work In Restricted Working Space, Add</i>	10.40	
22 07 19 00-0908	LF	8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	82.32	12.75
		<i>For Work In Restricted Working Space, Add</i>	11.60	
22 07 19 00-0909	LF	10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	93.95	14.70
		<i>For Work In Restricted Working Space, Add</i>	13.37	
22 07 19 00-0910	LF	12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	116.98	18.28
		<i>For Work In Restricted Working Space, Add</i>	16.61	
22 07 19 00-0911	LF	14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	122.14	19.94
		<i>For Work In Restricted Working Space, Add</i>	18.14	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0912 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... For Work In Restricted Working Space, Add	144.37 23.18	25.50
22 07 19 00-0913 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... For Work In Restricted Working Space, Add	156.82 24.34	26.77
22 07 19 00-0914 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... For Work In Restricted Working Space, Add	180.26 27.82	30.60
22 07 19 00-0915 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... For Work In Restricted Working Space, Add	225.53 33.61	36.98
22 07 19 00-0916 3" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0917 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	45.64 8.03	8.83
22 07 19 00-0918 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	46.55 8.03	8.83
22 07 19 00-0919 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	47.91 8.16	8.98
22 07 19 00-0920 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	49.00 8.21	9.03
22 07 19 00-0921 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	50.14 8.28	9.11
22 07 19 00-0922 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	53.84 8.62	9.48
22 07 19 00-0923 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	57.38 8.92	9.81
22 07 19 00-0924 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	65.02 9.23	10.15
22 07 19 00-0925 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	74.05 9.73	10.70
22 07 19 00-0926 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	81.17 11.06	12.17
22 07 19 00-0927 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	91.65 12.34	13.57
22 07 19 00-0928 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	109.25 14.22	15.65
22 07 19 00-0929 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	127.09 17.67	19.44
22 07 19 00-0930 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	136.14 19.29	21.22
22 07 19 00-0931 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	162.82 24.66	27.13
22 07 19 00-0932 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	174.21 25.89	28.49
22 07 19 00-0933 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	204.04 29.60	32.55
22 07 19 00-0934 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	249.36 35.75	39.33
22 07 19 00-0935 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0936 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	54.98 9.73	10.70
22 07 19 00-0937 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	56.12 9.73	10.70
22 07 19 00-0938 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	57.47 9.79	10.77
22 07 19 00-0939 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	58.82 9.86	10.83
22 07 19 00-0940 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	60.39 9.98	10.98
22 07 19 00-0941 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	66.34 10.32	11.36
22 07 19 00-0942 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	72.35 10.68	11.75
22 07 19 00-0943 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	76.39 11.06	12.17
22 07 19 00-0944 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	81.79 11.69	12.86
22 07 19 00-0945 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	94.11 13.27	14.61
22 07 19 00-0946 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	106.98 14.78	16.26
22 07 19 00-0947 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	127.87 17.06	18.77
22 07 19 00-0948 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	151.23 21.21	23.33
22 07 19 00-0949 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	157.91 23.15	25.47
22 07 19 00-0950 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	189.57 29.60	32.55
22 07 19 00-0951 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	208.15 31.07	34.19
22 07 19 00-0952 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	237.00 35.54	39.09

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0953	LF	24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	290.92 42.91	47.20
22 07 19 00-0954 4" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				
22 07 19 00-0955	LF	1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	66.97 11.96	13.15
22 07 19 00-0956	LF	3/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	68.44 11.96	13.15
22 07 19 00-0957	LF	1" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	70.60 12.16	13.38
22 07 19 00-0958	LF	1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	72.54 12.30	13.54
22 07 19 00-0959	LF	1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	75.31 12.69	13.96
22 07 19 00-0960	LF	2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	81.27 13.08	14.38
22 07 19 00-0961	LF	2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	86.58 13.28	14.62
22 07 19 00-0962	LF	3" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	90.87 13.77	15.15
22 07 19 00-0963	LF	4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	99.34 15.36	16.90
22 07 19 00-0964	LF	6" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	114.77 16.49	18.14
22 07 19 00-0965	LF	8" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	129.49 17.88	19.67
22 07 19 00-0966	LF	10" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	148.40 21.25	23.37
22 07 19 00-0967	LF	12" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	173.56 26.39	29.03
22 07 19 00-0968	LF	14" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	188.73 28.83	31.70
22 07 19 00-0969	LF	16" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	224.35 36.86	40.54
22 07 19 00-0970	LF	18" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	249.33 38.63	42.49
22 07 19 00-0971	LF	20" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	279.59 44.21	48.62
22 07 19 00-0972	LF	24" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	354.30 53.40	58.75
22 07 19 00-0973 Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19)				
Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.				
22 07 19 00-0974 3/8" Wall Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19 00-0973)				
22 07 19 00-0975	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.77 2.46	4.10
22 07 19 00-0976	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.78 2.47	4.10
22 07 19 00-0977	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.14 2.55	4.25
22 07 19 00-0978	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.53 2.64	4.39
22 07 19 00-0979	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.88 2.68	4.47
22 07 19 00-0980	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.29 2.72	4.54
22 07 19 00-0981	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.46 2.73	4.54
22 07 19 00-0982	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.93 2.75	4.54
22 07 19 00-0983	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.85 2.83	4.67
22 07 19 00-0984	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.26 2.87	4.75
22 07 19 00-0985 1/2" Wall Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19 00-0973)				
22 07 19 00-0986	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.75 2.68	4.47
22 07 19 00-0987	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.86 2.70	4.47
22 07 19 00-0988	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.03 2.72	4.54
22 07 19 00-0989	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.23 2.74	4.56
22 07 19 00-0990	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.75 2.81	4.67
22 07 19 00-0991	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.19 2.85	4.75



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0992	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.68	4.82
		<i>For Work In Restricted Working Space, Add</i>	2.89	
22 07 19 00-0993	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.30	4.89
		<i>For Work In Restricted Working Space, Add</i>	2.93	
22 07 19 00-0994	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	13.37	5.04
		<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-0995	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.48	5.11
		<i>For Work In Restricted Working Space, Add</i>	3.07	
22 07 19 00-0996	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	15.53	5.17
		<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0997	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	16.16	5.25
		<i>For Work In Restricted Working Space, Add</i>	3.15	
22 07 19 00-0998 3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)				
22 07 19 00-0999	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.86	4.82
		<i>For Work In Restricted Working Space, Add</i>	2.89	
22 07 19 00-1000	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.00	4.89
		<i>For Work In Restricted Working Space, Add</i>	2.93	
22 07 19 00-1001	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.72	5.04
		<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-1002	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.05	5.11
		<i>For Work In Restricted Working Space, Add</i>	3.07	
22 07 19 00-1003	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.94	5.25
		<i>For Work In Restricted Working Space, Add</i>	3.15	
22 07 19 00-1004	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	13.86	5.33
		<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-1005	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	14.28	5.36
		<i>For Work In Restricted Working Space, Add</i>	3.21	
22 07 19 00-1006	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	15.96	5.40
		<i>For Work In Restricted Working Space, Add</i>	3.24	
22 07 19 00-1007	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	18.31	5.54
		<i>For Work In Restricted Working Space, Add</i>	3.33	
22 07 19 00-1008	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	18.44	5.62
		<i>For Work In Restricted Working Space, Add</i>	3.37	
22 07 19 00-1009	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	20.11	5.69
		<i>For Work In Restricted Working Space, Add</i>	3.41	
22 07 19 00-1010	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	20.81	5.75
		<i>For Work In Restricted Working Space, Add</i>	3.45	
22 07 19 00-1011 1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)				
22 07 19 00-1012	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.38	5.33
		<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-1013	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.70	5.40
		<i>For Work In Restricted Working Space, Add</i>	3.24	
22 07 19 00-1014	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.74	5.54
		<i>For Work In Restricted Working Space, Add</i>	3.33	
22 07 19 00-1015	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.05	5.62
		<i>For Work In Restricted Working Space, Add</i>	3.37	
22 07 19 00-1016	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	15.60	5.75
		<i>For Work In Restricted Working Space, Add</i>	3.45	
22 07 19 00-1017	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	16.36	5.90
		<i>For Work In Restricted Working Space, Add</i>	3.54	
22 07 19 00-1018	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	16.67	5.97
		<i>For Work In Restricted Working Space, Add</i>	3.58	
22 07 19 00-1019	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	18.17	6.04
		<i>For Work In Restricted Working Space, Add</i>	3.62	
22 07 19 00-1020	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	19.24	6.19
		<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-1021	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	20.17	6.26
		<i>For Work In Restricted Working Space, Add</i>	3.76	
22 07 19 00-1022 Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19)				
Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.				
22 07 19 00-1023 3/8" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-1022)				
22 07 19 00-1024	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.86	4.10
		<i>For Work In Restricted Working Space, Add</i>	2.46	
22 07 19 00-1025	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.97	4.10
		<i>For Work In Restricted Working Space, Add</i>	2.47	
22 07 19 00-1026	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.31	4.25
		<i>For Work In Restricted Working Space, Add</i>	2.55	
22 07 19 00-1027	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.51	4.32
		<i>For Work In Restricted Working Space, Add</i>	2.59	
22 07 19 00-1028	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.73	4.39
		<i>For Work In Restricted Working Space, Add</i>	2.64	
22 07 19 00-1029	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	9.99	4.47
		<i>For Work In Restricted Working Space, Add</i>	2.68	
22 07 19 00-1030	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.23	4.54
		<i>For Work In Restricted Working Space, Add</i>	2.72	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1031	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.44 2.73	4.54
22 07 19 00-1032	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.63 2.75	4.54
22 07 19 00-1033	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.83 2.76	4.60
22 07 19 00-1034	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.13 2.81	4.67
22 07 19 00-1035	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.37 2.83	4.67
22 07 19 00-1036	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.55 2.85	4.75
22 07 19 00-1037	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.80 2.87	4.75
22 07 19 00-1038	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.32 2.89	4.82
22 07 19 00-1039	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.95 2.93	4.89
22 07 19 00-1040	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.63 2.96	4.92
22 07 19 00-1041 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-				
22 07 19 00-1042	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.90 2.68	4.47
22 07 19 00-1043	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.03 2.70	4.47
22 07 19 00-1044	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.17 2.72	4.54
22 07 19 00-1045	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.34 2.73	4.54
22 07 19 00-1046	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.48 2.74	4.54
22 07 19 00-1047	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.86 2.81	4.67
22 07 19 00-1048	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.20 2.85	4.75
22 07 19 00-1049	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.50 2.89	4.82
22 07 19 00-1050	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.80 2.91	4.86
22 07 19 00-1051	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.04 2.93	4.89
22 07 19 00-1052	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.93 2.98	4.97
22 07 19 00-1053	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.47 3.02	5.04
22 07 19 00-1054	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.87 3.05	5.08
22 07 19 00-1055	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.21 3.07	5.11
22 07 19 00-1056	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.46 3.09	5.15
22 07 19 00-1057	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.68 3.11	5.17
22 07 19 00-1058	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.69 3.15	5.25
22 07 19 00-1059	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.93 3.17	5.29
22 07 19 00-1060	LF	5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.89 3.19	5.33
22 07 19 00-1061	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.08 3.28	5.47
22 07 19 00-1062	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.41 3.37	5.62
22 07 19 00-1063 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-				
22 07 19 00-1064	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.22 2.89	4.82
22 07 19 00-1065	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.50 2.93	4.89
22 07 19 00-1066	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.94 3.02	5.04
22 07 19 00-1067	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.17 3.05	5.08
22 07 19 00-1068	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.29 3.07	5.11
22 07 19 00-1069	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.90 3.15	5.25
22 07 19 00-1070	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.35 3.19	5.33



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 07 19 00-1071	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.80 3.24		5.40	
22 07 19 00-1072	LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.92 3.24		5.40	
22 07 19 00-1073	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.10 3.26		5.44	
22 07 19 00-1074	LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.61 3.28		5.47	
22 07 19 00-1075	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.93 3.33		5.54	
22 07 19 00-1076	LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.52 3.35		5.58	
22 07 19 00-1077	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.91 3.37		5.62	
22 07 19 00-1078	LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.52 3.39		5.66	
22 07 19 00-1079	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.77 3.41		5.69	
22 07 19 00-1080	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.71 3.45		5.75	
22 07 19 00-1081	LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.44 3.47		5.79	
22 07 19 00-1082	LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.64 3.49		5.82	
22 07 19 00-1083	LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.95 3.54		5.90	
22 07 19 00-1084	LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.56 3.62		6.04	
22 07 19 00-1085 1" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-1022)					
22 07 19 00-1086	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.95 3.19		5.32	
22 07 19 00-1087	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.29 3.24		5.40	
22 07 19 00-1088	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.76 3.33		5.54	
22 07 19 00-1089	LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.10 3.35		5.58	
22 07 19 00-1090	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.39 3.37		5.62	
22 07 19 00-1091	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.95 3.45		5.75	
22 07 19 00-1092	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.78 3.54		5.90	
22 07 19 00-1093	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.21 3.58		5.90	
22 07 19 00-1094	LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.74 3.60		5.97	
22 07 19 00-1095	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.95 3.62		6.04	
22 07 19 00-1096	LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.10 3.67		6.12	
22 07 19 00-1097	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.99 3.71		6.19	
22 07 19 00-1098	LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.10 3.74		6.23	
22 07 19 00-1099	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.43 3.76		6.26	
22 07 19 00-1100	LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.03 3.78		6.30	
22 07 19 00-1101	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.33 3.80		6.32	
22 07 19 00-1102	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.48 3.88		6.48	
22 07 19 00-1103	LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.93 3.93		6.55	
22 07 19 00-1104	LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.04 3.97		6.62	
22 07 19 00-1105	LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.33 4.06		6.77	
22 07 19 00-1106 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-1022)					
22 07 19 00-1107	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.49 3.58		5.96	
22 07 19 00-1108	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.96 3.66		6.08	
22 07 19 00-1109	LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.30 3.68		6.12	
22 07 19 00-1110	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.64 3.70		6.18	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1111 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 20.17 <i>For Work In Restricted Working Space, Add</i> 3.78		6.31
22 07 19 00-1112 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 21.04 <i>For Work In Restricted Working Space, Add</i> 3.92		6.55
22 07 19 00-1113 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 22.10 <i>For Work In Restricted Working Space, Add</i> 3.96		6.46
22 07 19 00-1114 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 23.04 <i>For Work In Restricted Working Space, Add</i> 4.01		6.61
22 07 19 00-1115 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 23.64 <i>For Work In Restricted Working Space, Add</i> 4.06		6.77
22 07 19 00-1116 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 25.40 <i>For Work In Restricted Working Space, Add</i> 4.10		6.85
22 07 19 00-1117 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 27.06 <i>For Work In Restricted Working Space, Add</i> 4.14		6.93
22 07 19 00-1118 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 27.84 <i>For Work In Restricted Working Space, Add</i> 4.17		6.96
22 07 19 00-1119 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 28.62 <i>For Work In Restricted Working Space, Add</i> 4.19		6.97
22 07 19 00-1120 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 29.53 <i>For Work In Restricted Working Space, Add</i> 4.21		7.01
22 07 19 00-1121 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 30.11 <i>For Work In Restricted Working Space, Add</i> 4.23		7.04
22 07 19 00-1122 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 33.28 <i>For Work In Restricted Working Space, Add</i> 4.37		7.30
22 07 19 00-1123 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 34.97 <i>For Work In Restricted Working Space, Add</i> 4.44		7.41
22 07 19 00-1124 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 38.97 <i>For Work In Restricted Working Space, Add</i> 4.51		7.53
22 07 19 00-1125 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 43.01 <i>For Work In Restricted Working Space, Add</i> 4.65		7.76
22 07 19 00-1126 2" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-		
1022) LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 25.53 <i>For Work In Restricted Working Space, Add</i> 3.95		6.58
22 07 19 00-1128 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 26.48 <i>For Work In Restricted Working Space, Add</i> 4.03		6.67
22 07 19 00-1129 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 27.95 <i>For Work In Restricted Working Space, Add</i> 4.04		6.73
22 07 19 00-1130 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 28.46 <i>For Work In Restricted Working Space, Add</i> 4.06		6.78
22 07 19 00-1131 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 29.79 <i>For Work In Restricted Working Space, Add</i> 4.14		6.92
22 07 19 00-1132 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 31.53 <i>For Work In Restricted Working Space, Add</i> 4.35		7.24
22 07 19 00-1133 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 32.45 <i>For Work In Restricted Working Space, Add</i> 4.37		7.07
22 07 19 00-1134 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 34.12 <i>For Work In Restricted Working Space, Add</i> 4.46		7.31
22 07 19 00-1135 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 35.75 <i>For Work In Restricted Working Space, Add</i> 4.54		7.57
22 07 19 00-1136 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 36.81 <i>For Work In Restricted Working Space, Add</i> 4.58		7.66
22 07 19 00-1137 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 38.96 <i>For Work In Restricted Working Space, Add</i> 4.62		7.76
22 07 19 00-1138 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 39.24 <i>For Work In Restricted Working Space, Add</i> 4.65		7.77
22 07 19 00-1139 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 41.26 <i>For Work In Restricted Working Space, Add</i> 4.68		7.78
22 07 19 00-1140 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 42.64 <i>For Work In Restricted Working Space, Add</i> 4.70		7.81
22 07 19 00-1141 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 44.11 <i>For Work In Restricted Working Space, Add</i> 4.71		7.85
22 07 19 00-1142 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 49.17 <i>For Work In Restricted Working Space, Add</i> 4.91		8.22
22 07 19 00-1143 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 52.11 <i>For Work In Restricted Working Space, Add</i> 5.03		8.38
22 07 19 00-1144 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 53.05 <i>For Work In Restricted Working Space, Add</i> 5.13		8.54
22 07 19 00-1145 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation 59.12 <i>For Work In Restricted Working Space, Add</i> 5.33		8.89
22 07 19 00-1146 Flexible Polyolefin Tubing Closed Cell Foam Insulation (22 07 19)		
Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-1147 3/8" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)		
22 07 19 00-1148 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation 8.88 <i>For Work In Restricted Working Space, Add</i> 2.46		4.10
22 07 19 00-1149 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation 8.98 <i>For Work In Restricted Working Space, Add</i> 2.47		4.10
22 07 19 00-1150 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation 9.31 <i>For Work In Restricted Working Space, Add</i> 2.55		4.25



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1151	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.73 2.64	4.39
22 07 19 00-1152	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.98 2.68	4.47
22 07 19 00-1153	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.44 2.72	4.54
22 07 19 00-1154	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.78 2.73	4.54
22 07 19 00-1155	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.03 2.75	4.67
22 07 19 00-1156	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.15 2.83	4.67
22 07 19 00-1157	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.14 2.87	4.75
22 07 19 00-1158	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.70 2.93	4.89
22 07 19 00-1159 1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)				
22 07 19 00-1160	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.95 2.68	4.47
22 07 19 00-1161	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.05 2.70	4.47
22 07 19 00-1162	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.25 2.72	4.54
22 07 19 00-1163	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.54 2.74	4.54
22 07 19 00-1164	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.88 2.81	4.67
22 07 19 00-1165	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.37 2.85	4.75
22 07 19 00-1166	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.92 2.89	4.82
22 07 19 00-1167	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.45 2.93	4.89
22 07 19 00-1168	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.65 3.02	5.04
22 07 19 00-1169	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.71 3.07	5.11
22 07 19 00-1170	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.73 3.15	5.25
22 07 19 00-1171 3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)				
22 07 19 00-1172	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.19 2.89	4.82
22 07 19 00-1173	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.57 2.93	4.89
22 07 19 00-1174	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.04 3.02	5.04
22 07 19 00-1175	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.77 3.07	5.11
22 07 19 00-1176	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.45 3.15	5.25
22 07 19 00-1177	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.61 3.19	5.33
22 07 19 00-1178	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.38 3.21	5.33
22 07 19 00-1179	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.25 3.24	5.40
22 07 19 00-1180	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.95 3.33	5.54
22 07 19 00-1181	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.47 3.37	5.62
22 07 19 00-1182	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	22.40 3.45	5.75
22 07 19 00-1183 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)				
22 07 19 00-1184	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.34 3.19	5.33
22 07 19 00-1185	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.55 3.24	5.40
22 07 19 00-1186	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.03 3.33	5.54
22 07 19 00-1187	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.07 3.37	5.62
22 07 19 00-1188	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.94 3.45	5.75
22 07 19 00-1189	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.83 3.54	5.90
22 07 19 00-1190	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.69 3.58	5.90

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1191 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	19.63	6.04
<i>For Work In Restricted Working Space, Add</i>	3.62	
22 07 19 00-1192 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	22.23	6.19
<i>For Work In Restricted Working Space, Add</i>	3.71	
22 07 19 00-1193 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	24.08	6.26
<i>For Work In Restricted Working Space, Add</i>	3.76	

22 10 Plumbing Piping ⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution ^(22 10)**22 11 16 Domestic Water Piping** ^(22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies ^(22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Includes cutting and threading to length where necessary. Not for use where detail is available.

22 11 16 00-0002 LF 1/2" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	21.71	4.99
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-0.77	
<i>For Work In Restricted Working Space, Add</i>	4.97	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	5.63	
22 11 16 00-0003 LF 3/4" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	23.85	5.36
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-0.95	
<i>For Work In Restricted Working Space, Add</i>	5.25	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	6.36	
22 11 16 00-0004 LF 1" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	27.13	5.87
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-1.26	
<i>For Work In Restricted Working Space, Add</i>	5.62	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	7.53	
22 11 16 00-0005 LF 1-1/4" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	31.82	6.11
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-1.79	
<i>For Work In Restricted Working Space, Add</i>	5.96	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	9.35	
22 11 16 00-0006 LF 1-1/2" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	34.26	7.23
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-2.03	
<i>For Work In Restricted Working Space, Add</i>	6.22	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	10.24	
22 11 16 00-0007 LF 2" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	41.29	8.73
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-2.66	
<i>For Work In Restricted Working Space, Add</i>	7.07	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	12.69	
22 11 16 00-0008 LF 2-1/2" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	58.34	10.35
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-4.61	
<i>For Work In Restricted Working Space, Add</i>	8.29	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	19.34	
22 11 16 00-0009 LF 3" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	72.49	13.84
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-5.85	
<i>For Work In Restricted Working Space, Add</i>	10.04	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	24.25	
22 11 16 00-0010 LF 4" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	103.79	15.53
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-10.13	
<i>For Work In Restricted Working Space, Add</i>	10.88	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	37.64	
22 11 16 00-0011 LF 5" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	182.00	19.84
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For ASTM 120, Deduct</i>	-20.73	
<i>For Work In Restricted Working Space, Add</i>	13.14	
<i>For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add</i>	70.95	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0012	LF		6" Diameter, Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly.....203.45 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -23.05 For Work In Restricted Working Space, Add 14.93 For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add 79.11		23.46
22 11 16 00-0013			Galvanized Steel Pipe And Threaded Fittings (22 11 16) Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe (22 11 16 00-0013) Note: ASTM A-53. Welded pipe has a weld bead on the inside. Includes coupling. Includes cutting and threading to length where necessary.		
22 11 16 00-0015	LF		1/2" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....10.62 For ASTM 120, Deduct -0.46 For Work In Restricted Working Space, Add 2.27 For Schedule 80 Pipe, Add 2.22		4.99
22 11 16 00-0016	LF		3/4" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....12.10 For ASTM 120, Deduct -0.61 For Work In Restricted Working Space, Add 2.42 For Schedule 80 Pipe, Add 2.75		5.36
22 11 16 00-0017	LF		1" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....14.73 For ASTM 120, Deduct -0.90 For Work In Restricted Working Space, Add 2.62 For Schedule 80 Pipe, Add 3.76		5.87
22 11 16 00-0018	LF		1-1/4" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....17.37 For ASTM 120, Deduct -1.22 For Work In Restricted Working Space, Add 2.77 For Schedule 80 Pipe, Add 4.83		6.11
22 11 16 00-0019	LF		1-1/2" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....20.56 For ASTM 120, Deduct -1.46 For Work In Restricted Working Space, Add 3.25 For Schedule 80 Pipe, Add 5.75		7.23
22 11 16 00-0020	LF		2" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....26.18 For ASTM 120, Deduct -1.96 For Work In Restricted Working Space, Add 3.94 For Schedule 80 Pipe, Add 7.58		8.73
22 11 16 00-0021	LF		2-1/2" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....36.30 For ASTM 120, Deduct -3.11 For Work In Restricted Working Space, Add 4.68 For Schedule 80 Pipe, Add 11.50		10.35
22 11 16 00-0022	LF		3" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....47.90 For ASTM 120, Deduct -4.07 For Work In Restricted Working Space, Add 6.24 For Schedule 80 Pipe, Add 15.09		13.84
22 11 16 00-0023	LF		4" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....61.94 For ASTM 120, Deduct -5.79 For Work In Restricted Working Space, Add 7.00 For Schedule 80 Pipe, Add 20.86		15.53
22 11 16 00-0024	LF		5" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....81.48 For ASTM 120, Deduct -7.77 For Work In Restricted Working Space, Add 8.91 For Schedule 80 Pipe, Add 27.82		19.84
22 11 16 00-0025	LF		6" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....102.29 For ASTM 120, Deduct -10.07 For Work In Restricted Working Space, Add 10.54 For Schedule 80 Pipe, Add 35.75		23.46
22 11 16 00-0026	LF		8" Diameter, Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....114.98 For ASTM 120, Deduct -10.88 For Work In Restricted Working Space, Add 12.73 For Schedule 80 Pipe, Add 39.06		28.37
22 11 16 00-0027			Seamless, Threaded And Coupled, Galvanized Steel Pipe (22 11 16 00-0013) Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.		
22 11 16 00-0028	LF		1/2" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....14.77 For ASTM 120, Deduct -1.08 For Work In Restricted Working Space, Add 2.27 For Schedule 80 Pipe, Add 4.22		4.99
22 11 16 00-0029	LF		3/4" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....16.69 For ASTM 120, Deduct -1.30 For Work In Restricted Working Space, Add 2.42 For Schedule 80 Pipe, Add 4.95		5.36
22 11 16 00-0030	LF		1" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....18.77 For ASTM 120, Deduct -1.51 For Work In Restricted Working Space, Add 2.62 For Schedule 80 Pipe, Add 5.70		5.87
22 11 16 00-0031	LF		1-1/4" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....21.87 For ASTM 120, Deduct -1.89 For Work In Restricted Working Space, Add 2.77 For Schedule 80 Pipe, Add 6.99		6.11
22 11 16 00-0032	LF		1-1/2" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....25.26 For ASTM 120, Deduct -2.16 For Work In Restricted Working Space, Add 3.25 For Schedule 80 Pipe, Add 8.01		7.23

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0033	LF	2" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	29.55	8.73
		For ASTM 120, Deduct	-2.46	
		For Work In Restricted Working Space, Add	3.94	
		For Schedule 80 Pipe, Add	9.20	
22 11 16 00-0034	LF	2-1/2" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	43.08	10.35
		For ASTM 120, Deduct	-4.12	
		For Work In Restricted Working Space, Add	4.68	
		For Schedule 80 Pipe, Add	14.75	
22 11 16 00-0035	LF	3" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	54.40	13.84
		For ASTM 120, Deduct	-5.04	
		For Work In Restricted Working Space, Add	6.24	
		For Schedule 80 Pipe, Add	18.21	
22 11 16 00-0036	LF	4" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	71.40	15.53
		For ASTM 120, Deduct	-7.21	
		For Work In Restricted Working Space, Add	7.00	
		For Schedule 80 Pipe, Add	25.40	
22 11 16 00-0037	LF	5" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	92.44	19.84
		For ASTM 120, Deduct	-9.41	
		For Work In Restricted Working Space, Add	8.91	
		For Schedule 80 Pipe, Add	33.08	
22 11 16 00-0038	LF	6" Diameter, Schedule 40, Seamless, Threaded Galvanized Steel Pipe	115.38	23.46
		For ASTM 120, Deduct	-12.04	
		For Work In Restricted Working Space, Add	10.54	
		For Schedule 80 Pipe, Add	42.03	
22 11 16 00-0039 Galvanized Malleable Iron 90 Degree Elbows (22 11 16 00-0013)				
22 11 16 00-0040	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	37.05	22.20
		For ASTM 120, Deduct	-0.57	
		For Work In Restricted Working Space, Add	9.98	
		For 300 Lb. Rating, Add	14.92	
22 11 16 00-0041	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	41.88	24.81
		For ASTM 120, Deduct	-0.70	
		For Work In Restricted Working Space, Add	11.17	
		For 300 Lb. Rating, Add	18.08	
22 11 16 00-0042	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	50.21	27.68
		For ASTM 120, Deduct	-1.30	
		For Work In Restricted Working Space, Add	12.47	
		For 300 Lb. Rating, Add	31.87	
22 11 16 00-0043	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	60.71	31.43
		For ASTM 120, Deduct	-2.05	
		For Work In Restricted Working Space, Add	14.12	
		For 300 Lb. Rating, Add	49.23	
22 11 16 00-0044	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	70.89	35.41
		For ASTM 120, Deduct	-2.67	
		For Work In Restricted Working Space, Add	15.92	
		For 300 Lb. Rating, Add	63.77	
22 11 16 00-0045	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	96.59	45.01
		For ASTM 120, Deduct	-4.38	
		For Work In Restricted Working Space, Add	20.22	
		For 300 Lb. Rating, Add	103.29	
22 11 16 00-0046	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	176.14	66.60
		For ASTM 120, Deduct	-11.46	
		For Work In Restricted Working Space, Add	29.93	
		For 300 Lb. Rating, Add	265.68	
22 11 16 00-0047	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	257.18	87.54
		For ASTM 120, Deduct	-18.89	
		For Work In Restricted Working Space, Add	39.38	
		For 300 Lb. Rating, Add	436.00	
22 11 16 00-0048	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	358.28	90.81
		For ASTM 120, Deduct	-33.32	
		For Work In Restricted Working Space, Add	40.85	
		For 300 Lb. Rating, Add	763.31	
22 11 16 00-0049	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	1,101.21	94.78
		For ASTM 120, Deduct	-143.87	
		For Work In Restricted Working Space, Add	42.63	
		For 300 Lb. Rating, Add	3,269.53	
22 11 16 00-0050	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	1,032.75	99.10
		For ASTM 120, Deduct	-132.63	
		For Work In Restricted Working Space, Add	44.57	
		For 300 Lb. Rating, Add	3,015.19	
22 11 16 00-0051	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	1,221.97	103.55
		For ASTM 120, Deduct	-160.01	
		For Work In Restricted Working Space, Add	46.57	
		For 300 Lb. Rating, Add	3,636.20	
22 11 16 00-0052 Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)				
22 11 16 00-0053	EA	3/4" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	43.35	23.44
		For ASTM 120, Deduct	-1.22	
		For Work In Restricted Working Space, Add	10.57	
22 11 16 00-0054	EA	1" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	49.80	26.31
		For ASTM 120, Deduct	-1.56	
		For Work In Restricted Working Space, Add	11.82	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0055	EA	1" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow		48.45	24.94
		For ASTM 120, Deduct	.....	-1.66	
		For Work In Restricted Working Space, Add	.....	11.22	
22 11 16 00-0056	EA	1-1/4" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	61.77	29.56
		For ASTM 120, Deduct	.....	-2.62	
		For Work In Restricted Working Space, Add	.....	13.29	
22 11 16 00-0057	EA	1-1/4" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	63.11	28.05
		For ASTM 120, Deduct	.....	-3.15	
		For Work In Restricted Working Space, Add	.....	12.64	
22 11 16 00-0058	EA	1-1/4" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	62.38	26.81
		For ASTM 120, Deduct	.....	-3.33	
		For Work In Restricted Working Space, Add	.....	12.05	
22 11 16 00-0059	EA	1-1/2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	77.95	33.42
		For ASTM 120, Deduct	.....	-4.19	
		For Work In Restricted Working Space, Add	.....	15.02	
22 11 16 00-0060	EA	1-1/2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	75.21	31.55
		For ASTM 120, Deduct	.....	-4.19	
		For Work In Restricted Working Space, Add	.....	14.19	
22 11 16 00-0061	EA	1-1/2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	73.04	30.05
		For ASTM 120, Deduct	.....	-4.19	
		For Work In Restricted Working Space, Add	.....	13.54	
22 11 16 00-0062	EA	2" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	92.83	40.16
		For ASTM 120, Deduct	.....	-4.89	
		For Work In Restricted Working Space, Add	.....	18.07	
22 11 16 00-0063	EA	2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	94.59	38.16
		For ASTM 120, Deduct	.....	-5.60	
		For Work In Restricted Working Space, Add	.....	17.17	
22 11 16 00-0064	EA	2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	93.25	36.29
		For ASTM 120, Deduct	.....	-5.82	
		For Work In Restricted Working Space, Add	.....	16.34	
22 11 16 00-0065	EA	2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	81.72	34.92
		For ASTM 120, Deduct	.....	-4.41	
		For Work In Restricted Working Space, Add	.....	15.69	
22 11 16 00-0066	EA	2-1/2" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	194.05	55.74
		For ASTM 120, Deduct	.....	-16.57	
		For Work In Restricted Working Space, Add	.....	25.07	
22 11 16 00-0067	EA	2-1/2" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	199.50	51.00
		For ASTM 120, Deduct	.....	-18.46	
		For Work In Restricted Working Space, Add	.....	22.93	
22 11 16 00-0068	EA	3" x 2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	316.30	77.06
		For ASTM 120, Deduct	.....	-30.12	
		For Work In Restricted Working Space, Add	.....	34.65	
22 11 16 00-0069	EA	3" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	273.72	66.21
		For ASTM 120, Deduct	.....	-26.16	
		For Work In Restricted Working Space, Add	.....	29.80	
22 11 16 00-0070	EA	4" x 3" Diameter, 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	583.88	86.37
		For ASTM 120, Deduct	.....	-68.15	
		For Work In Restricted Working Space, Add	.....	38.86	
22 11 16 00-0071	Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)				
22 11 16 00-0072	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	.....	37.98	22.20
		For ASTM 120, Deduct	.....	-0.71	
		For Work In Restricted Working Space, Add	.....	9.98	
		For 300 Lb. Rating, Add	.....	18.08	
22 11 16 00-0073	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	.....	44.02	24.81
		For ASTM 120, Deduct	.....	-1.02	
		For Work In Restricted Working Space, Add	.....	11.17	
		For 300 Lb. Rating, Add	.....	25.35	
22 11 16 00-0074	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	.....	49.25	27.68
		For ASTM 120, Deduct	.....	-1.15	
		For Work In Restricted Working Space, Add	.....	12.47	
		For 300 Lb. Rating, Add	.....	28.61	
22 11 16 00-0075	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	.....	61.41	31.43
		For ASTM 120, Deduct	.....	-2.15	
		For Work In Restricted Working Space, Add	.....	14.12	
		For 300 Lb. Rating, Add	.....	51.61	
22 11 16 00-0076	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	.....	69.92	35.41
		For ASTM 120, Deduct	.....	-2.53	
		For Work In Restricted Working Space, Add	.....	15.92	
		For 300 Lb. Rating, Add	.....	60.47	
22 11 16 00-0077	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	.....	92.34	45.01
		For ASTM 120, Deduct	.....	-3.74	
		For Work In Restricted Working Space, Add	.....	20.22	
		For 300 Lb. Rating, Add	.....	88.84	
22 11 16 00-0078	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	.....	186.53	66.60
		For ASTM 120, Deduct	.....	-13.02	
		For Work In Restricted Working Space, Add	.....	29.93	
		For 300 Lb. Rating, Add	.....	301.00	
22 11 16 00-0079	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	.....	257.46	87.54
		For ASTM 120, Deduct	.....	-18.93	
		For Work In Restricted Working Space, Add	.....	39.38	
		For 300 Lb. Rating, Add	.....	436.96	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0080	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	347.75	90.81
		For ASTM 120, Deduct	-31.74	
		For Work In Restricted Working Space, Add	40.85	
		For 300 Lb. Rating, Add	727.51	
22 11 16 00-0081	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	997.01	94.78
		For ASTM 120, Deduct	-128.24	
		For Work In Restricted Working Space, Add	42.63	
		For 300 Lb. Rating, Add	2,915.25	
22 11 16 00-0082	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	1,179.38	99.10
		For ASTM 120, Deduct	-154.62	
		For Work In Restricted Working Space, Add	44.57	
		For 300 Lb. Rating, Add	3,513.74	
22 11 16 00-0083	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron 45 Degree Elbow	1,397.09	103.55
		For ASTM 120, Deduct	-186.28	
		For Work In Restricted Working Space, Add	46.57	
		For 300 Lb. Rating, Add	4,231.60	
22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)				
22 11 16 00-0085	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Tee	46.49	27.68
		For ASTM 120, Deduct	-0.74	
		For Work In Restricted Working Space, Add	12.47	
		For 300 Lb. Rating, Add	19.22	
22 11 16 00-0086	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Tee	56.07	32.05
		For ASTM 120, Deduct	-1.22	
		For Work In Restricted Working Space, Add	14.39	
		For 300 Lb. Rating, Add	30.45	
22 11 16 00-0087	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Tee	69.80	37.78
		For ASTM 120, Deduct	-1.97	
		For Work In Restricted Working Space, Add	17.00	
		For 300 Lb. Rating, Add	48.01	
22 11 16 00-0088	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Tee	88.22	45.01
		For ASTM 120, Deduct	-3.12	
		For Work In Restricted Working Space, Add	20.22	
		For 300 Lb. Rating, Add	74.83	
22 11 16 00-0089	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Tee	106.34	53.62
		For ASTM 120, Deduct	-3.88	
		For Work In Restricted Working Space, Add	24.14	
		For 300 Lb. Rating, Add	92.82	
22 11 16 00-0090	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Tee	141.82	66.60
		For ASTM 120, Deduct	-6.31	
		For Work In Restricted Working Space, Add	29.93	
		For 300 Lb. Rating, Add	148.99	
22 11 16 00-0091	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Tee	226.86	72.33
		For ASTM 120, Deduct	-17.76	
		For Work In Restricted Working Space, Add	32.53	
		For 300 Lb. Rating, Add	409.13	
22 11 16 00-0092	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Tee	270.13	87.54
		For ASTM 120, Deduct	-20.83	
		For Work In Restricted Working Space, Add	39.38	
		For 300 Lb. Rating, Add	480.03	
22 11 16 00-0093	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Tee	500.52	114.74
		For ASTM 120, Deduct	-49.28	
		For Work In Restricted Working Space, Add	51.60	
		For 300 Lb. Rating, Add	1,127.25	
22 11 16 00-0094	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Tee	1,236.90	136.21
		For ASTM 120, Deduct	-154.89	
		For Work In Restricted Working Space, Add	61.28	
		For 300 Lb. Rating, Add	3,523.20	
22 11 16 00-0095	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Tee	1,404.68	155.71
		For ASTM 120, Deduct	-175.69	
		For Work In Restricted Working Space, Add	70.03	
		For 300 Lb. Rating, Add	3,996.22	
22 11 16 00-0096	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron Tee	1,671.79	184.89
		For ASTM 120, Deduct	-208.75	
		For Work In Restricted Working Space, Add	84.04	
		For 300 Lb. Rating, Add	4,748.42	
22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)				
22 11 16 00-0098	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	53.01	27.68
		For ASTM 120, Deduct	-1.72	
		For Work In Restricted Working Space, Add	12.47	
		For 300 Lb. Rating, Add	41.39	
22 11 16 00-0099	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	59.24	32.05
		For ASTM 120, Deduct	-1.69	
		For Work In Restricted Working Space, Add	14.39	
		For 300 Lb. Rating, Add	41.23	
22 11 16 00-0100	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	72.53	37.78
		For ASTM 120, Deduct	-2.38	
		For Work In Restricted Working Space, Add	17.00	
		For 300 Lb. Rating, Add	57.29	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0101	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee		91.97	45.01
		For ASTM 120, Deduct	.....	-3.69	
		For Work In Restricted Working Space, Add	.....	20.22	
		For 300 Lb. Rating, Add	.....	87.58	
22 11 16 00-0102	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	.....	110.81	53.62
		For ASTM 120, Deduct	.....	-4.55	
		For Work In Restricted Working Space, Add	.....	24.14	
		For 300 Lb. Rating, Add	.....	108.02	
22 11 16 00-0103	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	.....	144.07	66.60
		For ASTM 120, Deduct	.....	-6.65	
		For Work In Restricted Working Space, Add	.....	29.93	
		For 300 Lb. Rating, Add	.....	156.64	
22 11 16 00-0104	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	.....	265.28	72.57
		For ASTM 120, Deduct	.....	-23.48	
		For Work In Restricted Working Space, Add	.....	32.63	
		For 300 Lb. Rating, Add	.....	538.66	
22 11 16 00-0105	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	.....	336.32	88.91
		For ASTM 120, Deduct	.....	-30.45	
		For Work In Restricted Working Space, Add	.....	40.00	
		For 300 Lb. Rating, Add	.....	698.13	
22 11 16 00-0106	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	.....	760.42	114.74
		For ASTM 120, Deduct	.....	-88.26	
		For Work In Restricted Working Space, Add	.....	51.60	
		For 300 Lb. Rating, Add	.....	2,010.91	
22 11 16 00-0107	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	.....	1,568.68	136.21
		For ASTM 120, Deduct	.....	-204.66	
		For Work In Restricted Working Space, Add	.....	61.28	
		For 300 Lb. Rating, Add	.....	4,651.25	
22 11 16 00-0108	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	.....	1,781.46	155.71
		For ASTM 120, Deduct	.....	-232.20	
		For Work In Restricted Working Space, Add	.....	70.03	
		For 300 Lb. Rating, Add	.....	5,277.27	
22 11 16 00-0109	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Tee	.....	2,134.97	178.79
		For ASTM 120, Deduct	.....	-279.98	
		For Work In Restricted Working Space, Add	.....	80.54	
		For 300 Lb. Rating, Add	.....	6,362.24	
22 11 16 00-0110		Galvanized Malleable Iron Couplings (22 11 16 00-0013)			
22 11 16 00-0111	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	42.49	22.20
		For ASTM 120, Deduct	.....	-1.39	
		For Work In Restricted Working Space, Add	.....	9.98	
		For 300 Lb. Rating, Add	.....	33.41	
22 11 16 00-0112	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	47.87	24.81
		For ASTM 120, Deduct	.....	-1.60	
		For Work In Restricted Working Space, Add	.....	11.17	
		For 300 Lb. Rating, Add	.....	38.44	
22 11 16 00-0113	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	59.02	27.68
		For ASTM 120, Deduct	.....	-2.62	
		For Work In Restricted Working Space, Add	.....	12.47	
		For 300 Lb. Rating, Add	.....	61.82	
22 11 16 00-0114	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	71.68	31.43
		For ASTM 120, Deduct	.....	-3.69	
		For Work In Restricted Working Space, Add	.....	14.12	
		For 300 Lb. Rating, Add	.....	86.53	
22 11 16 00-0115	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	81.05	35.41
		For ASTM 120, Deduct	.....	-4.20	
		For Work In Restricted Working Space, Add	.....	15.92	
		For 300 Lb. Rating, Add	.....	98.32	
22 11 16 00-0116	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	108.31	45.01
		For ASTM 120, Deduct	.....	-6.14	
		For Work In Restricted Working Space, Add	.....	20.22	
		For 300 Lb. Rating, Add	.....	143.14	
22 11 16 00-0117	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	224.99	66.60
		For ASTM 120, Deduct	.....	-18.78	
		For Work In Restricted Working Space, Add	.....	29.93	
		For 300 Lb. Rating, Add	.....	431.77	
22 11 16 00-0118	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	298.64	87.54
		For ASTM 120, Deduct	.....	-25.11	
		For Work In Restricted Working Space, Add	.....	39.38	
		For 300 Lb. Rating, Add	.....	576.97	
22 11 16 00-0119	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	491.66	90.81
		For ASTM 120, Deduct	.....	-53.32	
		For Work In Restricted Working Space, Add	.....	40.85	
		For 300 Lb. Rating, Add	.....	1,216.80	
22 11 16 00-0120	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	1,143.03	94.78
		For ASTM 120, Deduct	.....	-150.14	
		For Work In Restricted Working Space, Add	.....	42.63	
		For 300 Lb. Rating, Add	.....	3,411.72	
22 11 16 00-0121	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Coupling	.....	1,288.89	99.10
		For ASTM 120, Deduct	.....	-171.05	
		For Work In Restricted Working Space, Add		44.57	
		For 300 Lb. Rating, Add		3,886.07	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0122	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	1,529.59 -206.15 46.57 4,682.10	103.55
22 11 16 00-0123		Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0124	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	44.46 -1.68 9.98 40.11	22.20
22 11 16 00-0125	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	49.21 -1.80 11.17 43.00	24.81
22 11 16 00-0126	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	61.55 -3.00 12.47 70.43	27.68
22 11 16 00-0127	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	72.89 -3.87 14.12 90.65	31.43
22 11 16 00-0128	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	86.39 -5.00 15.92 116.47	35.41
22 11 16 00-0129	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	112.85 -6.82 20.22 158.57	45.01
22 11 16 00-0130	EA	2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	226.58 -19.02 29.93 437.17	66.60
22 11 16 00-0131	EA	3" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	293.89 -24.39 39.38 560.82	87.54
22 11 16 00-0132	EA	4" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	500.81 -54.69 40.85 1,247.91	90.81
22 11 16 00-0133	EA	5" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	1,195.72 -158.04 42.63 3,590.87	94.78
22 11 16 00-0134	EA	6" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	1,348.91 -180.05 44.57 4,090.14	99.10
22 11 16 00-0135	EA	8" Diameter, 150 Lb., Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	1,602.46 -217.08 46.57 4,929.86	103.55
22 11 16 00-0136		Galvanized Malleable Iron Caps (22 11 16 00-0013)		
22 11 16 00-0137	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	17.68 -0.31 4.68 8.04	10.35
22 11 16 00-0138	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	19.52 -0.43 4.99 10.82	11.09
22 11 16 00-0139	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	22.77 -0.54 5.75 13.36	12.84
22 11 16 00-0140	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	24.83 -0.71 6.03 17.25	13.47
22 11 16 00-0141	EA	1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	24.53 -0.66 6.03 16.23	13.47
22 11 16 00-0142	EA	2" Diameter, 150 Lb., Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	36.28 -1.42 8.05 33.77	17.83



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0143 EA 2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Cap For ASTM 120, Deduct For Work In Restricted Working Space, Add For 300 Lb. Rating, Add 22 11 16 00-0144 EA 3" Diameter, 150 Lb., Galvanized Malleable Iron Cap For ASTM 120, Deduct For Work In Restricted Working Space, Add For 300 Lb. Rating, Add 22 11 16 00-0145 EA 4" Diameter, 150 Lb., Galvanized Malleable Iron Cap For ASTM 120, Deduct For Work In Restricted Working Space, Add For 300 Lb. Rating, Add 22 11 16 00-0146 EA 5" Diameter, 150 Lb., Galvanized Malleable Iron Cap For ASTM 120, Deduct For Work In Restricted Working Space, Add For 300 Lb. Rating, Add 22 11 16 00-0147 EA 6" Diameter, 150 Lb., Galvanized Malleable Iron Cap For ASTM 120, Deduct For Work In Restricted Working Space, Add For 300 Lb. Rating, Add 22 11 16 00-0148 EA 8" Diameter, 150 Lb., Galvanized Malleable Iron Cap For ASTM 120, Deduct For Work In Restricted Working Space, Add For 300 Lb. Rating, Add 22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013) 22 11 16 00-0150 EA 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0151 EA 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0152 EA 1" Diameter, 150 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0153 EA 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0154 EA 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0155 EA 2" Diameter, 150 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0156 EA 2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0157 EA 3" Diameter, 150 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0158 EA 1/2" Diameter, 250 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0159 EA 3/4" Diameter, 250 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0160 EA 1" Diameter, 250 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0161 EA 1-1/4" Diameter, 250 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0162 EA 1-1/2" Diameter, 250 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0163 EA 2" Diameter, 250 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0164 EA 2-1/2" Diameter, 250 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0165 EA 3" Diameter, 250 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0166 EA 4" Diameter, 250 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0167 EA 1/2" Diameter, 300 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0168 EA 3/4" Diameter, 300 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0169 EA 1" Diameter, 300 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0170 EA 1-1/4" Diameter, 300 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0171 EA 1-1/2" Diameter, 300 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0172 EA 2" Diameter, 300 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0173 EA 2-1/2" Diameter, 300 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0174 EA 3" Diameter, 300 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0175 EA 4" Diameter, 300 Lb., Galvanized Malleable Iron Union For Work In Restricted Working Space, Add 22 11 16 00-0176 Galvanized Steel Nipples (22 11 16 00-0013) Note: ASTM A-53.	54.48 -3.18 9.98 74.18 70.46 -4.53 12.07 105.20 103.19 -8.48 14.00 194.93 245.97 -28.14 17.51 641.38 305.98 -35.47 20.86 808.07 384.04 -45.96 23.29 1,046.49 55.41 12.47 63.86 14.39 77.50 17.00 97.50 20.22 116.93 24.14 141.69 29.93 292.92 44.18 397.63 58.13 69.70 12.47 73.52 14.39 88.37 17.00 115.40 20.22 135.72 24.14 177.80 29.93 352.55 44.18 508.73 58.13 695.09 60.31 73.62 12.47 82.73 14.39 102.79 17.00 131.71 20.22 157.89 24.14 192.70 29.93 406.52 44.18 632.23 58.13 1,300.70 60.31	22.20 26.81 31.17 38.98 46.34 51.78 27.68 32.05 37.78 45.01 53.62 66.60 98.14 129.06 27.68 32.05 37.78 45.01 53.62 66.60 98.14 129.06 134.00 27.68 32.05 37.78 45.01 53.62 66.60 98.14 129.06 134.00

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0177	EA	3/8" Diameter x Close, Schedule 40 Galvanized Steel Nipple	19.66	11.85
		For ASTM 120, Deduct	-0.28	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	2.10	
22 11 16 00-0178	EA	1/2" Diameter x Close, Schedule 40 Galvanized Steel Nipple	19.31	11.85
		For ASTM 120, Deduct	-0.22	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	1.70	
22 11 16 00-0179	EA	3/4" Diameter x Close, Schedule 40 Galvanized Steel Nipple	19.63	11.85
		For ASTM 120, Deduct	-0.27	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	2.06	
22 11 16 00-0180	EA	1" Diameter x Close, Schedule 40 Galvanized Steel Nipple	21.67	12.84
		For ASTM 120, Deduct	-0.37	
		For Work In Restricted Working Space, Add	5.75	
		For Schedule 80 Nipples, Add	2.84	
22 11 16 00-0181	EA	1-1/4" Diameter x Close, Schedule 40 Galvanized Steel Nipple	24.13	13.84
		For ASTM 120, Deduct	-0.50	
		For Work In Restricted Working Space, Add	6.24	
		For Schedule 80 Nipples, Add	3.81	
22 11 16 00-0182	EA	1-1/2" Diameter x Close, Schedule 40 Galvanized Steel Nipple	24.70	13.84
		For ASTM 120, Deduct	-0.59	
		For Work In Restricted Working Space, Add	6.24	
		For Schedule 80 Nipples, Add	4.46	
22 11 16 00-0183	EA	2" Diameter x Close, Schedule 40 Galvanized Steel Nipple	32.34	17.83
		For ASTM 120, Deduct	-0.83	
		For Work In Restricted Working Space, Add	8.05	
		For Schedule 80 Nipples, Add	6.29	
22 11 16 00-0184	EA	2-1/2" Diameter x Close, Schedule 40 Galvanized Steel Nipple	49.67	22.20
		For ASTM 120, Deduct	-2.46	
		For Work In Restricted Working Space, Add	9.98	
		For Schedule 80 Nipples, Add	18.72	
22 11 16 00-0185	EA	3" Diameter x Close, Schedule 40 Galvanized Steel Nipple	59.91	26.81
		For ASTM 120, Deduct	-2.95	
		For Work In Restricted Working Space, Add	12.07	
		For Schedule 80 Nipples, Add	22.44	
22 11 16 00-0186	EA	4" Diameter x Close, Schedule 40 Galvanized Steel Nipple	76.17	31.17
		For ASTM 120, Deduct	-4.42	
		For Work In Restricted Working Space, Add	14.00	
		For Schedule 80 Nipples, Add	33.62	
22 11 16 00-0187	EA	3/8" Diameter x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.94	11.85
		For ASTM 120, Deduct	-0.32	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	2.42	
22 11 16 00-0188	EA	1/2" Diameter x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.39	11.85
		For ASTM 120, Deduct	-0.24	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	1.79	
22 11 16 00-0189	EA	3/4" Diameter x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.79	11.85
		For ASTM 120, Deduct	-0.30	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	2.25	
22 11 16 00-0190	EA	3/8" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	19.94	11.85
		For ASTM 120, Deduct	-0.32	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	2.42	
22 11 16 00-0191	EA	1/2" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	19.39	11.85
		For ASTM 120, Deduct	-0.24	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	1.79	
22 11 16 00-0192	EA	3/4" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	19.79	11.85
		For ASTM 120, Deduct	-0.30	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	2.25	
22 11 16 00-0193	EA	1" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	22.11	12.84
		For ASTM 120, Deduct	-0.44	
		For Work In Restricted Working Space, Add	5.75	
		For Schedule 80 Nipples, Add	3.34	
22 11 16 00-0194	EA	1-1/4" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	24.37	13.84
		For ASTM 120, Deduct	-0.54	
		For Work In Restricted Working Space, Add	6.24	
		For Schedule 80 Nipples, Add	4.08	
22 11 16 00-0195	EA	1-1/2" Diameter x 2" Long, Schedule 40 Galvanized Steel Nipple	24.99	13.84
		For ASTM 120, Deduct	-0.63	
		For Work In Restricted Working Space, Add	6.24	
		For Schedule 80 Nipples, Add	4.79	
22 11 16 00-0196	EA	3/8" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.64	11.85
		For ASTM 120, Deduct	-0.42	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	3.21	
22 11 16 00-0197	EA	1/2" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.66	11.85
		For ASTM 120, Deduct	-0.28	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	2.10	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0198	EA		3/4" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	20.00	11.85
			For ASTM 120, Deduct	-0.33	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	2.49	
22 11 16 00-0199	EA		1" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	22.36	12.84
			For ASTM 120, Deduct	-0.48	
			For Work In Restricted Working Space, Add	5.75	
			For Schedule 80 Nipples, Add	3.63	
22 11 16 00-0200	EA		1-1/4" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	24.72	13.84
			For ASTM 120, Deduct	-0.59	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	4.48	
22 11 16 00-0201	EA		1-1/2" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	25.47	13.84
			For ASTM 120, Deduct	-0.70	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	5.34	
22 11 16 00-0202	EA		2" Diameter x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	33.03	17.83
			For ASTM 120, Deduct	-0.93	
			For Work In Restricted Working Space, Add	8.05	
			For Schedule 80 Nipples, Add	7.08	
22 11 16 00-0203	EA		3/8" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple.....	20.64	11.85
			For ASTM 120, Deduct	-0.42	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	3.21	
22 11 16 00-0204	EA		1/2" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple.....	19.66	11.85
			For ASTM 120, Deduct	-0.28	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	2.10	
22 11 16 00-0205	EA		3/4" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple.....	20.00	11.85
			For ASTM 120, Deduct	-0.33	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	2.49	
22 11 16 00-0206	EA		1" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple.....	22.36	12.84
			For ASTM 120, Deduct	-0.48	
			For Work In Restricted Working Space, Add	5.75	
			For Schedule 80 Nipples, Add	3.63	
22 11 16 00-0207	EA		1-1/4" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple.....	24.72	13.84
			For ASTM 120, Deduct	-0.59	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	4.48	
22 11 16 00-0208	EA		1-1/2" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple.....	25.47	13.84
			For ASTM 120, Deduct	-0.70	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	5.34	
22 11 16 00-0209	EA		2" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple.....	33.03	17.83
			For ASTM 120, Deduct	-0.93	
			For Work In Restricted Working Space, Add	8.05	
			For Schedule 80 Nipples, Add	7.08	
22 11 16 00-0210	EA		2-1/2" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple.....	50.30	22.20
			For ASTM 120, Deduct	-2.56	
			For Work In Restricted Working Space, Add	9.98	
			For Schedule 80 Nipples, Add	19.44	
22 11 16 00-0211	EA		3" Diameter x 3" Long, Schedule 40 Galvanized Steel Nipple.....	62.62	26.81
			For ASTM 120, Deduct	-3.36	
			For Work In Restricted Working Space, Add	12.07	
			For Schedule 80 Nipples, Add	25.52	
22 11 16 00-0212	EA		3/8" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	21.17	11.85
			For ASTM 120, Deduct	-0.50	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	3.82	
22 11 16 00-0213	EA		1/2" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	20.10	11.85
			For ASTM 120, Deduct	-0.34	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	2.60	
22 11 16 00-0214	EA		3/4" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	20.64	11.85
			For ASTM 120, Deduct	-0.42	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	3.21	
22 11 16 00-0215	EA		1" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	23.00	12.84
			For ASTM 120, Deduct	-0.57	
			For Work In Restricted Working Space, Add	5.75	
			For Schedule 80 Nipples, Add	4.35	
22 11 16 00-0216	EA		1-1/4" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	25.47	13.84
			For ASTM 120, Deduct	-0.70	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	5.34	
22 11 16 00-0217	EA		1-1/2" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	26.71	13.84
			For ASTM 120, Deduct	-0.89	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	6.75	
22 11 16 00-0218	EA		2" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	34.36	17.83
			For ASTM 120, Deduct	-1.13	
			For Work In Restricted Working Space, Add	8.05	
			For Schedule 80 Nipples, Add	8.60	

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22 11 16 00-0219 EA 2-1/2" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	53.04	22.20
For ASTM 120, Deduct	-2.97	
For Work In Restricted Working Space, Add	9.98	
For Schedule 80 Nipples, Add	22.56	
22 11 16 00-0220 EA 3" Diameter x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	66.50	26.81
For ASTM 120, Deduct	-3.94	
For Work In Restricted Working Space, Add	12.07	
For Schedule 80 Nipples, Add	29.95	
22 11 16 00-0221 EA 3/8" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	21.17	11.85
For ASTM 120, Deduct	-0.50	
For Work In Restricted Working Space, Add	5.35	
For Schedule 80 Nipples, Add	3.82	
22 11 16 00-0222 EA 1/2" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	20.10	11.85
For ASTM 120, Deduct	-0.34	
For Work In Restricted Working Space, Add	5.35	
For Schedule 80 Nipples, Add	2.60	
22 11 16 00-0223 EA 3/4" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	21.17	11.85
For ASTM 120, Deduct	-0.50	
For Work In Restricted Working Space, Add	5.35	
For Schedule 80 Nipples, Add	3.82	
22 11 16 00-0224 EA 1" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	23.00	12.84
For ASTM 120, Deduct	-0.57	
For Work In Restricted Working Space, Add	5.75	
For Schedule 80 Nipples, Add	4.35	
22 11 16 00-0225 EA 1-1/4" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	25.47	13.84
For ASTM 120, Deduct	-0.70	
For Work In Restricted Working Space, Add	6.24	
For Schedule 80 Nipples, Add	5.34	
22 11 16 00-0226 EA 1-1/2" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	26.71	13.84
For ASTM 120, Deduct	-0.89	
For Work In Restricted Working Space, Add	6.24	
For Schedule 80 Nipples, Add	6.75	
22 11 16 00-0227 EA 2" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	34.42	17.83
For ASTM 120, Deduct	-1.14	
For Work In Restricted Working Space, Add	8.05	
For Schedule 80 Nipples, Add	8.66	
22 11 16 00-0228 EA 2-1/2" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	53.04	22.20
For ASTM 120, Deduct	-2.97	
For Work In Restricted Working Space, Add	9.98	
For Schedule 80 Nipples, Add	22.56	
22 11 16 00-0229 EA 3" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	66.50	26.81
For ASTM 120, Deduct	-3.94	
For Work In Restricted Working Space, Add	12.07	
For Schedule 80 Nipples, Add	29.95	
22 11 16 00-0230 EA 4" Diameter x 4" Long, Schedule 40 Galvanized Steel Nipple.....	81.94	31.17
For ASTM 120, Deduct	-5.29	
For Work In Restricted Working Space, Add	14.00	
For Schedule 80 Nipples, Add	40.20	
22 11 16 00-0231 EA 3/8" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	22.44	11.85
For ASTM 120, Deduct	-0.69	
For Work In Restricted Working Space, Add	5.35	
For Schedule 80 Nipples, Add	5.27	
22 11 16 00-0232 EA 1/2" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	20.56	11.85
For ASTM 120, Deduct	-0.41	
For Work In Restricted Working Space, Add	5.35	
For Schedule 80 Nipples, Add	3.12	
22 11 16 00-0233 EA 3/4" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	21.19	11.85
For ASTM 120, Deduct	-0.51	
For Work In Restricted Working Space, Add	5.35	
For Schedule 80 Nipples, Add	3.84	
22 11 16 00-0234 EA 1" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	23.86	12.84
For ASTM 120, Deduct	-0.70	
For Work In Restricted Working Space, Add	5.75	
For Schedule 80 Nipples, Add	5.34	
22 11 16 00-0235 EA 1-1/4" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	26.58	13.84
For ASTM 120, Deduct	-0.87	
For Work In Restricted Working Space, Add	6.24	
For Schedule 80 Nipples, Add	6.60	
22 11 16 00-0236 EA 1-1/2" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	27.94	13.84
For ASTM 120, Deduct	-1.07	
For Work In Restricted Working Space, Add	6.24	
For Schedule 80 Nipples, Add	8.15	
22 11 16 00-0237 EA 2" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	36.44	17.83
For ASTM 120, Deduct	-1.44	
For Work In Restricted Working Space, Add	8.05	
For Schedule 80 Nipples, Add	10.97	
22 11 16 00-0238 EA 2-1/2" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	55.31	22.20
For ASTM 120, Deduct	-3.31	
For Work In Restricted Working Space, Add	9.98	
For Schedule 80 Nipples, Add	25.15	
22 11 16 00-0239 EA 3" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	70.84	26.81
For ASTM 120, Deduct	-4.59	
For Work In Restricted Working Space, Add	12.07	
For Schedule 80 Nipples, Add	34.90	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0240	EA		4" Diameter x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	86.22	31.17
			For ASTM 120, Deduct	-5.93	
			For Work In Restricted Working Space, Add	14.00	
			For Schedule 80 Nipples, Add	45.08	
22 11 16 00-0241	EA		3/8" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	22.44	11.85
			For ASTM 120, Deduct	-0.69	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	5.27	
22 11 16 00-0242	EA		1/2" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	20.56	11.85
			For ASTM 120, Deduct	-0.41	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	3.12	
22 11 16 00-0243	EA		3/4" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	21.19	11.85
			For ASTM 120, Deduct	-0.51	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	3.84	
22 11 16 00-0244	EA		1" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	23.86	12.84
			For ASTM 120, Deduct	-0.70	
			For Work In Restricted Working Space, Add	5.75	
			For Schedule 80 Nipples, Add	5.34	
22 11 16 00-0245	EA		1-1/4" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	26.58	13.84
			For ASTM 120, Deduct	-0.87	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	6.60	
22 11 16 00-0246	EA		1-1/2" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	27.94	13.84
			For ASTM 120, Deduct	-1.07	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	8.15	
22 11 16 00-0247	EA		2" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	36.44	17.83
			For ASTM 120, Deduct	-1.44	
			For Work In Restricted Working Space, Add	8.05	
			For Schedule 80 Nipples, Add	10.97	
22 11 16 00-0248	EA		2-1/2" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	55.31	22.20
			For ASTM 120, Deduct	-3.31	
			For Work In Restricted Working Space, Add	9.98	
			For Schedule 80 Nipples, Add	25.15	
22 11 16 00-0249	EA		3" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	70.84	26.81
			For ASTM 120, Deduct	-4.59	
			For Work In Restricted Working Space, Add	12.07	
			For Schedule 80 Nipples, Add	34.90	
22 11 16 00-0250	EA		4" Diameter x 5" Long, Schedule 40 Galvanized Steel Nipple.....	86.22	31.17
			For ASTM 120, Deduct	-5.93	
			For Work In Restricted Working Space, Add	14.00	
			For Schedule 80 Nipples, Add	45.08	
22 11 16 00-0251	EA		3/8" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	22.95	11.85
			For ASTM 120, Deduct	-0.77	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	5.85	
22 11 16 00-0252	EA		1/2" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	20.93	11.85
			For ASTM 120, Deduct	-0.47	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	3.55	
22 11 16 00-0253	EA		3/4" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	21.86	11.85
			For ASTM 120, Deduct	-0.61	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	4.61	
22 11 16 00-0254	EA		1" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	24.49	12.84
			For ASTM 120, Deduct	-0.80	
			For Work In Restricted Working Space, Add	5.75	
			For Schedule 80 Nipples, Add	6.05	
22 11 16 00-0255	EA		1-1/4" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	27.51	13.84
			For ASTM 120, Deduct	-1.01	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	7.66	
22 11 16 00-0256	EA		1-1/2" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	28.84	13.84
			For ASTM 120, Deduct	-1.21	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	9.18	
22 11 16 00-0257	EA		2" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	38.00	17.83
			For ASTM 120, Deduct	-1.68	
			For Work In Restricted Working Space, Add	8.05	
			For Schedule 80 Nipples, Add	12.75	
22 11 16 00-0258	EA		2-1/2" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	57.50	22.20
			For ASTM 120, Deduct	-3.64	
			For Work In Restricted Working Space, Add	9.98	
			For Schedule 80 Nipples, Add	27.65	
22 11 16 00-0259	EA		3" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	72.61	26.81
			For ASTM 120, Deduct	-4.86	
			For Work In Restricted Working Space, Add	12.07	
			For Schedule 80 Nipples, Add	36.91	
22 11 16 00-0260	EA		4" Diameter x 6" Long, Schedule 40 Galvanized Steel Nipple.....	90.39	31.17
			For ASTM 120, Deduct	-6.56	
			For Work In Restricted Working Space, Add	14.00	
			For Schedule 80 Nipples, Add	49.83	

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22 11 16 00-0261	EA		3/8" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	38.33	11.85
			For ASTM 120, Deduct	-3.08	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	23.38	
22 11 16 00-0262	EA		1/2" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	23.30	11.85
			For ASTM 120, Deduct	-0.82	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	6.25	
22 11 16 00-0263	EA		3/4" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	24.83	11.85
			For ASTM 120, Deduct	-1.05	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	7.99	
22 11 16 00-0264	EA		1" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	28.06	12.84
			For ASTM 120, Deduct	-1.33	
			For Work In Restricted Working Space, Add	5.75	
			For Schedule 80 Nipples, Add	10.12	
22 11 16 00-0265	EA		1-1/4" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	31.68	13.84
			For ASTM 120, Deduct	-1.63	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	12.41	
22 11 16 00-0266	EA		1-1/2" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	33.28	13.84
			For ASTM 120, Deduct	-1.87	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	14.24	
22 11 16 00-0267	EA		2" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	45.04	17.83
			For ASTM 120, Deduct	-2.73	
			For Work In Restricted Working Space, Add	8.05	
			For Schedule 80 Nipples, Add	20.77	
22 11 16 00-0268	EA		2-1/2" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	64.46	22.20
			For ASTM 120, Deduct	-4.68	
			For Work In Restricted Working Space, Add	9.98	
			For Schedule 80 Nipples, Add	35.58	
22 11 16 00-0269	EA		3" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	83.85	26.81
			For ASTM 120, Deduct	-6.54	
			For Work In Restricted Working Space, Add	12.07	
			For Schedule 80 Nipples, Add	49.73	
22 11 16 00-0270	EA		4" Diameter x 8" Long, Schedule 40 Galvanized Steel Nipple	98.84	31.17
			For ASTM 120, Deduct	-7.82	
			For Work In Restricted Working Space, Add	14.00	
			For Schedule 80 Nipples, Add	59.46	
22 11 16 00-0271	EA		3/8" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	27.60	11.85
			For ASTM 120, Deduct	-1.47	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	11.15	
22 11 16 00-0272	EA		1/2" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	24.33	11.85
			For ASTM 120, Deduct	-0.98	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	7.42	
22 11 16 00-0273	EA		3/4" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	25.60	11.85
			For ASTM 120, Deduct	-1.17	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	8.87	
22 11 16 00-0274	EA		1" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	29.33	12.84
			For ASTM 120, Deduct	-1.52	
			For Work In Restricted Working Space, Add	5.75	
			For Schedule 80 Nipples, Add	11.57	
22 11 16 00-0275	EA		1-1/4" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	33.81	13.84
			For ASTM 120, Deduct	-1.95	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	14.84	
22 11 16 00-0276	EA		1-1/2" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	35.35	13.84
			For ASTM 120, Deduct	-2.18	
			For Work In Restricted Working Space, Add	6.24	
			For Schedule 80 Nipples, Add	16.60	
22 11 16 00-0277	EA		2" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	48.13	17.83
			For ASTM 120, Deduct	-3.20	
			For Work In Restricted Working Space, Add	8.05	
			For Schedule 80 Nipples, Add	24.29	
22 11 16 00-0278	EA		2-1/2" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	68.82	22.20
			For ASTM 120, Deduct	-5.34	
			For Work In Restricted Working Space, Add	9.98	
			For Schedule 80 Nipples, Add	40.55	
22 11 16 00-0279	EA		3" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	89.99	26.81
			For ASTM 120, Deduct	-7.46	
			For Work In Restricted Working Space, Add	12.07	
			For Schedule 80 Nipples, Add	56.73	
22 11 16 00-0280	EA		4" Diameter x 10" Long, Schedule 40 Galvanized Steel Nipple	107.13	31.17
			For ASTM 120, Deduct	-9.07	
			For Work In Restricted Working Space, Add	14.00	
			For Schedule 80 Nipples, Add	68.91	
22 11 16 00-0281	EA		3/8" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple	28.66	11.85
			For ASTM 120, Deduct	-1.63	
			For Work In Restricted Working Space, Add	5.35	
			For Schedule 80 Nipples, Add	12.36	



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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 16 00-0282	EA	1/2" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple.....	25.23	11.85
		For ASTM 120, Deduct	-1.11	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	8.45	
22 11 16 00-0283	EA	3/4" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple.....	26.54	11.85
		For ASTM 120, Deduct	-1.31	
		For Work In Restricted Working Space, Add	5.35	
		For Schedule 80 Nipples, Add	9.94	
22 11 16 00-0284	EA	1" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple.....	31.00	12.84
		For ASTM 120, Deduct	-1.77	
		For Work In Restricted Working Space, Add	5.75	
		For Schedule 80 Nipples, Add	13.47	
22 11 16 00-0285	EA	1-1/4" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple.....	36.42	13.84
		For ASTM 120, Deduct	-2.34	
		For Work In Restricted Working Space, Add	6.24	
		For Schedule 80 Nipples, Add	17.82	
22 11 16 00-0286	EA	1-1/2" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple.....	37.45	13.84
		For ASTM 120, Deduct	-2.50	
		For Work In Restricted Working Space, Add	6.24	
		For Schedule 80 Nipples, Add	18.99	
22 11 16 00-0287	EA	2" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple.....	51.27	17.83
		For ASTM 120, Deduct	-3.67	
		For Work In Restricted Working Space, Add	8.05	
		For Schedule 80 Nipples, Add	27.87	
22 11 16 00-0288	EA	2-1/2" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple.....	73.05	22.20
		For ASTM 120, Deduct	-5.97	
		For Work In Restricted Working Space, Add	9.98	
		For Schedule 80 Nipples, Add	45.37	
22 11 16 00-0289	EA	3" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple.....	96.18	26.81
		For ASTM 120, Deduct	-8.39	
		For Work In Restricted Working Space, Add	12.07	
		For Schedule 80 Nipples, Add	63.78	
22 11 16 00-0290	EA	4" Diameter x 12" Long, Schedule 40 Galvanized Steel Nipple.....	115.50	31.17
		For ASTM 120, Deduct	-10.32	
		For Work In Restricted Working Space, Add	14.00	
		For Schedule 80 Nipples, Add	78.45	
22 11 16 00-0291		Galvanized Steel Dielectric Nipples With Polyethylene Liner (22 11 16 00-0013)		
		See CSI section 22 11 16 00-0844 for dielectric unions.		
22 11 16 00-0292	EA	1/2" Diameter Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	20.74	11.85
		For Work In Restricted Working Space, Add	5.35	
22 11 16 00-0293	EA	1/2" Diameter Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	21.18	11.85
		For Work In Restricted Working Space, Add	5.35	
22 11 16 00-0294	EA	3/4" Diameter Threaded x 2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	21.59	11.85
		For Work In Restricted Working Space, Add	5.35	
22 11 16 00-0295	EA	3/4" Diameter Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	23.06	11.85
		For Work In Restricted Working Space, Add	5.35	
22 11 16 00-0296	EA	3/4" Diameter Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	24.58	11.85
		For Work In Restricted Working Space, Add	5.35	
22 11 16 00-0297	EA	3/4" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	25.49	11.85
		For Work In Restricted Working Space, Add	5.35	
22 11 16 00-0298	EA	1" Diameter Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	24.79	12.84
		For Work In Restricted Working Space, Add	5.76	
22 11 16 00-0299	EA	1" Diameter Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	25.27	12.84
		For Work In Restricted Working Space, Add	5.76	
22 11 16 00-0300	EA	1" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	32.63	12.84
		For Work In Restricted Working Space, Add	5.76	
22 11 16 00-0301	EA	1-1/4" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	35.35	13.84
		For Work In Restricted Working Space, Add	6.25	
22 11 16 00-0302	EA	1-1/2" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	39.40	13.84
		For Work In Restricted Working Space, Add	6.25	
22 11 16 00-0303	EA	2" Diameter Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	52.64	17.83
		For Work In Restricted Working Space, Add	8.04	
22 11 16 00-0304	EA	2-1/2" Diameter Threaded x 6" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	62.67	22.20
		For Work In Restricted Working Space, Add	9.99	
22 11 16 00-0305	EA	3" Diameter Threaded x 6" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	99.47	26.81
		For Work In Restricted Working Space, Add	12.08	
22 11 16 00-0306		Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0307	EA	1/2" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug.....	20.50	8.85
		For Work In Restricted Working Space, Add	3.99	
		For 300 Lb. Rating, Add	25.28	
22 11 16 00-0308	EA	3/4" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug.....	22.09	9.97
		For Work In Restricted Working Space, Add	4.47	
		For 300 Lb. Rating, Add	25.37	
22 11 16 00-0309	EA	1" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug.....	24.53	11.09
		For Work In Restricted Working Space, Add	4.99	
		For 300 Lb. Rating, Add	27.86	
22 11 16 00-0310	EA	1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug.....	30.97	12.60
		For Work In Restricted Working Space, Add	5.65	
		For 300 Lb. Rating, Add	42.44	

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22 11 16 00-0311 EA 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug For Work In Restricted Working Space, Add For 300 Lb. Rating, Add	37.58 6.37 56.90	14.09
22 11 16 00-0312 EA 2" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug..... For Work In Restricted Working Space, Add For 300 Lb. Rating, Add	47.76 8.09 72.34	17.96
22 11 16 00-0313 EA 2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug For Work In Restricted Working Space, Add For 300 Lb. Rating, Add	80.47 11.97 140.33	26.56
22 11 16 00-0314 EA 3" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug..... For Work In Restricted Working Space, Add For 300 Lb. Rating, Add	110.07 15.75 198.85	35.04
22 11 16 00-0315 EA 4" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug..... For Work In Restricted Working Space, Add For 300 Lb. Rating, Add	173.98 16.34 409.57	36.30
22 11 16 00-0316 EA 5" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug..... For Work In Restricted Working Space, Add For 300 Lb. Rating, Add	276.08 17.05 748.83	37.94
22 11 16 00-0317 EA 6" Diameter, 150 Lb., Galvanized Malleable Iron Square Head Plug..... For Work In Restricted Working Space, Add For 300 Lb. Rating, Add	296.44 17.83 809.43	39.57
22 11 16 00-0318 Galvanized Malleable Iron Bushing (22 11 16 00-0013)		
22 11 16 00-0319 EA 3/4" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	44.43 10.57	23.44
22 11 16 00-0320 EA 1" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	48.41 11.22	24.94
22 11 16 00-0321 EA 1" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	49.81 11.82	26.31
22 11 16 00-0322 EA 1-1/4" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	55.56 12.05	26.81
22 11 16 00-0323 EA 1-1/4" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	56.14 12.64	28.05
22 11 16 00-0324 EA 1-1/4" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	58.31 13.29	29.56
22 11 16 00-0325 EA 1-1/2" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	63.51 12.95	28.81
22 11 16 00-0326 EA 1-1/2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	65.49 13.54	30.05
22 11 16 00-0327 EA 1-1/2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	65.66 14.19	31.55
22 11 16 00-0328 EA 1-1/2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	66.98 15.02	33.42
22 11 16 00-0329 EA 2" x 1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	75.74 15.10	33.54
22 11 16 00-0330 EA 2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	75.96 15.69	34.92
22 11 16 00-0331 EA 2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	76.84 16.34	36.29
22 11 16 00-0332 EA 2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	79.59 17.17	38.16
22 11 16 00-0333 EA 2" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	79.85 18.07	40.16
22 11 16 00-0334 EA 2-1/2" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	105.27 20.55	45.64
22 11 16 00-0335 EA 2-1/2" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	107.43 21.20	47.13
22 11 16 00-0336 EA 2-1/2" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	110.18 22.02	48.88
22 11 16 00-0337 EA 2-1/2" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	112.51 22.93	51.00
22 11 16 00-0338 EA 2-1/2" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	115.56 25.07	55.74
22 11 16 00-0339 EA 3" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	132.79 25.28	56.12
22 11 16 00-0340 EA 3" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	134.96 25.93	57.61
22 11 16 00-0341 EA 3" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	137.70 26.75	59.48
22 11 16 00-0342 EA 3" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	139.76 27.65	61.48
22 11 16 00-0343 EA 3" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	142.48 29.80	66.21
22 11 16 00-0344 EA 3" x 2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	161.16 34.65	77.06
22 11 16 00-0345 EA 4" x 3/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	187.25 25.65	56.97
22 11 16 00-0346 EA 4" x 1" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	189.29 26.27	58.36
22 11 16 00-0347 EA 4" x 1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	191.85 27.03	60.11
22 11 16 00-0348 EA 4" x 1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	194.66 27.88	61.98



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22 11 16 00-0349	EA		4" x 2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing.....	189.39	66.42
			<i>For Work In Restricted Working Space, Add</i>	29.89	
22 11 16 00-0350	EA		4" x 2-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Bushing.....	216.51	76.57
			<i>For Work In Restricted Working Space, Add</i>	34.43	
22 11 16 00-0351	EA		4" x 3" Diameter, 150 Lb., Galvanized Malleable Iron Bushing.....	224.54	86.37
			<i>For Work In Restricted Working Space, Add</i>	38.86	
22 11 16 00-0352 Galvanized Malleable Iron Floor Flange (22 11 16 00-0013)					
Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.					
22 11 16 00-0353	EA		1/2" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange.....	76.40	45.57
22 11 16 00-0354	EA		3/4" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange.....	83.52	49.88
22 11 16 00-0355	EA		1" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange.....	95.84	56.37
22 11 16 00-0356	EA		1-1/4" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange.....	99.59	58.36
22 11 16 00-0357	EA		1-1/2" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange.....	108.38	63.48
22 11 16 00-0358	EA		2" Diameter, 150 Lb., Galvanized Malleable Iron Floor Flange.....	116.55	66.21
22 11 16 00-0359 Galvanized Cast Iron Flanges (22 11 16 00-0013)					
Note: Excludes bolt and gasket sets					
22 11 16 00-0360	EA		3/4" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	142.70	49.88
			<i>For Work In Restricted Working Space, Add</i>	22.45	
22 11 16 00-0361	EA		1" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	137.09	56.37
			<i>For Work In Restricted Working Space, Add</i>	25.36	
22 11 16 00-0362	EA		1-1/4" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	115.28	58.36
			<i>For Work In Restricted Working Space, Add</i>	26.25	
22 11 16 00-0363	EA		1-1/2" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	136.21	63.48
			<i>For Work In Restricted Working Space, Add</i>	28.56	
22 11 16 00-0364	EA		2" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	153.62	66.21
			<i>For Work In Restricted Working Space, Add</i>	29.80	
22 11 16 00-0365	EA		2-1/2" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	178.42	76.69
			<i>For Work In Restricted Working Space, Add</i>	34.47	
22 11 16 00-0366	EA		3" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	317.32	97.26
			<i>For Work In Restricted Working Space, Add</i>	43.75	
22 11 16 00-0367	EA		4" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	420.30	124.55
			<i>For Work In Restricted Working Space, Add</i>	56.02	
22 11 16 00-0368	EA		5" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	588.97	148.24
			<i>For Work In Restricted Working Space, Add</i>	66.68	
22 11 16 00-0369	EA		6" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	647.28	170.30
			<i>For Work In Restricted Working Space, Add</i>	76.60	
22 11 16 00-0370	EA		8" Diameter, 125 Lb., Galvanized Cast Iron Flange.....	598.24	194.63
			<i>For Work In Restricted Working Space, Add</i>	87.54	
22 11 16 00-0371 Cut And Thread Existing In-Place Galvanized Steel Pipe (22 11 16 00-0013)					
Note: For use when connecting pipe to an existing in-place system.					
22 11 16 00-0372	EA		1/2" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	40.63	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
22 11 16 00-0373	EA		3/4" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	44.68	
			<i>For Work In Restricted Working Space, Add</i>	13.40	
22 11 16 00-0374	EA		1" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	48.75	
			<i>For Work In Restricted Working Space, Add</i>	14.63	
22 11 16 00-0375	EA		1-1/4" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	52.81	
			<i>For Work In Restricted Working Space, Add</i>	15.84	
22 11 16 00-0376	EA		1-1/2" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	55.52	
			<i>For Work In Restricted Working Space, Add</i>	16.66	
22 11 16 00-0377	EA		2" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	58.22	
			<i>For Work In Restricted Working Space, Add</i>	17.47	
22 11 16 00-0378	EA		2-1/2" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	60.93	
			<i>For Work In Restricted Working Space, Add</i>	18.28	
22 11 16 00-0379	EA		3" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	63.64	
			<i>For Work In Restricted Working Space, Add</i>	19.09	
22 11 16 00-0380	EA		4" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	66.35	
			<i>For Work In Restricted Working Space, Add</i>	19.91	
22 11 16 00-0381	EA		6" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	71.76	
			<i>For Work In Restricted Working Space, Add</i>	21.53	
22 11 16 00-0382	EA		8" Diameter, Cut And Thread Existing In Place Galvanized Steel Pipe.....	77.18	
			<i>For Work In Restricted Working Space, Add</i>	23.15	
22 11 16 00-0383 Galvanized Malleable Iron Welded Plain End Half Coupling (22 11 16 00-0013)					
Note: Threaded Female x Butt Weld Straight Adapter					
22 11 16 00-0384	EA		1/2" Diameter, 3,000 Lb., Galvanized Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling.....	70.46	45.28
			<i>For ASTM 120, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	20.38	
			<i>For 300 Lb. Rating, Add</i>	12.68	
22 11 16 00-0385	EA		3/4" Diameter, 3,000 Lb., Galvanized Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling.....	82.56	52.62
			<i>For ASTM 120, Deduct</i>	-0.55	
			<i>For Work In Restricted Working Space, Add</i>	23.68	
			<i>For 300 Lb. Rating, Add</i>	17.11	
22 11 16 00-0386	EA		1" Diameter, 3,000 Lb., Galvanized Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling.....	89.35	56.28
			<i>For ASTM 120, Deduct</i>	-0.75	
			<i>For Work In Restricted Working Space, Add</i>	25.31	
			<i>For 300 Lb. Rating, Add</i>	22.03	

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22 11 16 00-0387 EA 1-1/4" Diameter, 3,000 Lb., Galvanized Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling 105.03		64.01
For ASTM 120, Deduct	-1.35	
For Work In Restricted Working Space, Add	28.80	
For 300 Lb. Rating, Add	36.46	
22 11 16 00-0388 EA 1-1/2" Diameter, 3,000 Lb., Galvanized Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling 116.74		69.82
For ASTM 120, Deduct	-1.80	
For Work In Restricted Working Space, Add	31.42	
For 300 Lb. Rating, Add	47.12	
22 11 16 00-0389 EA 2" Diameter, 3,000 Lb., Galvanized Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling 151.49		90.31
For ASTM 120, Deduct	-2.42	
For Work In Restricted Working Space, Add	40.60	
For 300 Lb. Rating, Add	63.03	
22 11 16 00-0390 Copper Pipe And Fittings (22 11 16)		
Note: Excludes hangers. See CSI section 22 11 16 00-0921 for pipe with fittings assembly.		
22 11 16 00-0391 Copper Tube/Pipe (22 11 16 00-0390)		
Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0392 Hard Drawn Type L Copper Tube/Pipe (22 11 16 00-0391)		
22 11 16 00-0393 LF 1/4" Diameter, Hard Drawn Type L Copper Tube/Pipe 6.49		3.05
For Up To 20, Add	0.70	
For >200, Deduct	-0.19	
For Work In Restricted Working Space, Add	1.37	
For Medical/Oxygen Service Tubing, Add	0.15	
22 11 16 00-0394 LF 3/8" Diameter, Hard Drawn Type L Copper Tube/Pipe 7.59		3.17
For Up To 20, Add	0.83	
For >200, Deduct	-0.28	
For Work In Restricted Working Space, Add	1.43	
For Medical/Oxygen Service Tubing, Add	0.23	
22 11 16 00-0395 LF 1/2" Diameter, Hard Drawn Type L Copper Tube/Pipe 8.33		3.31
For Up To 20, Add	0.92	
For >200, Deduct	-0.34	
For Work In Restricted Working Space, Add	1.49	
For Medical/Oxygen Service Tubing, Add	0.27	
22 11 16 00-0396 LF 3/4" Diameter, Hard Drawn Type L Copper Tube/Pipe 10.73		3.51
For Up To 20, Add	1.21	
For >200, Deduct	-0.55	
For Work In Restricted Working Space, Add	1.58	
For Medical/Oxygen Service Tubing, Add	0.44	
22 11 16 00-0397 LF 1" Diameter, Hard Drawn Type L Copper Tube/Pipe 13.83		3.94
For Up To 20, Add	1.58	
For >200, Deduct	-0.79	
For Work In Restricted Working Space, Add	1.77	
For Medical/Oxygen Service Tubing, Add	0.63	
22 11 16 00-0398 LF 1-1/4" Diameter, Hard Drawn Type L Copper Tube/Pipe 19.70		5.86
For Up To 20, Add	2.24	
For >200, Deduct	-1.09	
For Work In Restricted Working Space, Add	2.64	
For Medical/Oxygen Service Tubing, Add	0.87	
22 11 16 00-0399 LF 1-1/2" Diameter, Hard Drawn Type L Copper Tube/Pipe 23.84		6.54
For Up To 20, Add	2.74	
For >200, Deduct	-1.40	
For Work In Restricted Working Space, Add	2.94	
For Medical/Oxygen Service Tubing, Add	1.12	
22 11 16 00-0400 LF 2" Diameter, Hard Drawn Type L Copper Tube/Pipe 34.32		8.07
For Up To 20, Add	3.99	
For >200, Deduct	-2.22	
For Work In Restricted Working Space, Add	3.63	
For Medical/Oxygen Service Tubing, Add	1.78	
22 11 16 00-0401 LF 2-1/2" Diameter, Hard Drawn Type L Copper Tube/Pipe 60.60		9.49
For Up To 20, Add	6.86	
For >200, Deduct	-3.21	
For Work In Restricted Working Space, Add	8.55	
For Medical/Oxygen Service Tubing, Add	2.57	
22 11 16 00-0402 LF 3" Diameter, Hard Drawn Type L Copper Tube/Pipe 76.33		11.18
For Up To 20, Add	8.70	
For >200, Deduct	-4.28	
For Work In Restricted Working Space, Add	10.06	
For Medical/Oxygen Service Tubing, Add	3.42	
22 11 16 00-0403 LF 4" Diameter, Hard Drawn Type L Copper Tube/Pipe 114.12		12.62
For Up To 20, Add	13.32	
For >200, Deduct	-7.63	
For Work In Restricted Working Space, Add	11.35	
For Medical/Oxygen Service Tubing, Add	6.10	
22 11 16 00-0404 LF 5" Diameter, Hard Drawn Type L Copper Tube/Pipe 178.20		14.49
For Up To 20, Add	21.19	
For >200, Deduct	-13.47	
For Work In Restricted Working Space, Add	13.04	
For Medical/Oxygen Service Tubing, Add	10.78	
22 11 16 00-0405 LF 6" Diameter, Hard Drawn Type L Copper Tube/Pipe 244.60		22.46
For Up To 20, Add	28.89	
For >200, Deduct	-17.73	
For Work In Restricted Working Space, Add	20.20	
For Medical/Oxygen Service Tubing, Add	14.18	



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22 11 16 00-0406	LF		8" Diameter, Hard Drawn Type L Copper Tube/Pipe	408.93	24.96
			For Up To 20, Add	49.24	
			For >200, Deduct	-33.41	
			For Work In Restricted Working Space, Add	22.46	
			For Medical/Oxygen Service Tubing, Add	26.73	
22 11 16 00-0407 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0391)					
22 11 16 00-0408	LF		1/4" Diameter, Hard Drawn Type K Copper Tube/Pipe	7.07	3.28
			For Up To 20, Add	0.76	
			For >200, Deduct	-0.22	
			For Work In Restricted Working Space, Add	1.47	
			For Medical/Oxygen Service Tubing, Add	0.17	
22 11 16 00-0409	LF		3/8" Diameter, Hard Drawn Type K Copper Tube/Pipe	9.51	3.41
			For Up To 20, Add	1.05	
			For >200, Deduct	-0.39	
			For Work In Restricted Working Space, Add	1.68	
			For Medical/Oxygen Service Tubing, Add	0.31	
22 11 16 00-0410	LF		1/2" Diameter, Hard Drawn Type K Copper Tube/Pipe	10.06	3.55
			For Up To 20, Add	1.12	
			For >200, Deduct	-0.46	
			For Work In Restricted Working Space, Add	1.64	
			For Medical/Oxygen Service Tubing, Add	0.37	
22 11 16 00-0411	LF		3/4" Diameter, Hard Drawn Type K Copper Tube/Pipe	14.60	3.76
			For Up To 20, Add	1.67	
			For >200, Deduct	-0.83	
			For Work In Restricted Working Space, Add	1.90	
			For Medical/Oxygen Service Tubing, Add	0.66	
22 11 16 00-0412	LF		1" Diameter, Hard Drawn Type K Copper Tube/Pipe	17.71	4.24
			For Up To 20, Add	2.05	
			For >200, Deduct	-1.10	
			For Work In Restricted Working Space, Add	2.02	
			For Medical/Oxygen Service Tubing, Add	0.88	
22 11 16 00-0413	LF		1-1/4" Diameter, Hard Drawn Type K Copper Tube/Pipe	23.21	6.30
			For Up To 20, Add	2.66	
			For >200, Deduct	-1.37	
			For Work In Restricted Working Space, Add	2.87	
			For Medical/Oxygen Service Tubing, Add	1.09	
22 11 16 00-0414	LF		1-1/2" Diameter, Hard Drawn Type K Copper Tube/Pipe	28.24	7.03
			For Up To 20, Add	3.26	
			For >200, Deduct	-1.75	
			For Work In Restricted Working Space, Add	3.22	
			For Medical/Oxygen Service Tubing, Add	1.40	
22 11 16 00-0415	LF		2" Diameter, Hard Drawn Type K Copper Tube/Pipe	40.06	8.68
			For Up To 20, Add	4.68	
			For >200, Deduct	-2.69	
			For Work In Restricted Working Space, Add	3.95	
			For Medical/Oxygen Service Tubing, Add	2.15	
22 11 16 00-0416	LF		2-1/2" Diameter, Hard Drawn Type K Copper Tube/Pipe	68.71	10.20
			For Up To 20, Add	7.87	
			For >200, Deduct	-4.01	
			For Work In Restricted Working Space, Add	8.59	
			For Medical/Oxygen Service Tubing, Add	3.21	
22 11 16 00-0417	LF		3" Diameter, Hard Drawn Type K Copper Tube/Pipe	91.68	12.02
			For Up To 20, Add	10.54	
			For >200, Deduct	-5.48	
			For Work In Restricted Working Space, Add	11.07	
			For Medical/Oxygen Service Tubing, Add	4.38	
22 11 16 00-0418	LF		4" Diameter, Hard Drawn Type K Copper Tube/Pipe	139.45	13.57
			For Up To 20, Add	16.39	
			For >200, Deduct	-9.76	
			For Work In Restricted Working Space, Add	12.54	
			For Medical/Oxygen Service Tubing, Add	7.81	
22 11 16 00-0419	LF		5" Diameter, Hard Drawn Type K Copper Tube/Pipe	228.26	15.58
			For Up To 20, Add	27.30	
			For >200, Deduct	-17.89	
			For Work In Restricted Working Space, Add	14.80	
			For Medical/Oxygen Service Tubing, Add	14.31	
22 11 16 00-0420	LF		6" Diameter, Hard Drawn Type K Copper Tube/Pipe	336.27	24.15
			For Up To 20, Add	40.05	
			For >200, Deduct	-25.67	
			For Work In Restricted Working Space, Add	23.87	
			For Medical/Oxygen Service Tubing, Add	20.54	
22 11 16 00-0421	LF		8" Diameter, Hard Drawn Type K Copper Tube/Pipe	568.36	26.83
			For Up To 20, Add	68.85	
			For >200, Deduct	-48.07	
			For Work In Restricted Working Space, Add	26.30	
			For Medical/Oxygen Service Tubing, Add	38.46	
22 11 16 00-0422 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0391)					
22 11 16 00-0423	LF		3/8" Diameter, Hard Drawn Type M Copper Tube/Pipe	6.33	2.86
			For Up To 20, Add	0.69	
			For >200, Deduct	-0.22	
			For Work In Restricted Working Space, Add	1.24	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0424	LF	1/2" Diameter, Hard Drawn Type M Copper Tube/Pipe	6.74	2.98
		For Up To 20, Add	0.74	
		For >200, Deduct	-0.25	
		For Work In Restricted Working Space, Add	1.28	
22 11 16 00-0425	LF	3/4" Diameter, Hard Drawn Type M Copper Tube/Pipe	8.54	3.16
		For Up To 20, Add	0.95	
		For >200, Deduct	-0.40	
		For Work In Restricted Working Space, Add	1.36	
22 11 16 00-0426	LF	1" Diameter, Hard Drawn Type M Copper Tube/Pipe	11.23	3.55
		For Up To 20, Add	1.28	
		For >200, Deduct	-0.62	
		For Work In Restricted Working Space, Add	1.52	
22 11 16 00-0427	LF	1-1/4" Diameter, Hard Drawn Type M Copper Tube/Pipe	16.79	5.28
		For Up To 20, Add	1.90	
		For >200, Deduct	-0.90	
		For Work In Restricted Working Space, Add	2.33	
22 11 16 00-0428	LF	1-1/2" Diameter, Hard Drawn Type M Copper Tube/Pipe	21.36	5.89
		For Up To 20, Add	2.45	
		For >200, Deduct	-1.24	
		For Work In Restricted Working Space, Add	2.68	
22 11 16 00-0429	LF	2" Diameter, Hard Drawn Type M Copper Tube/Pipe	30.63	7.25
		For Up To 20, Add	3.55	
		For >200, Deduct	-1.95	
		For Work In Restricted Working Space, Add	3.33	
22 11 16 00-0430	LF	2-1/2" Diameter, Hard Drawn Type M Copper Tube/Pipe	55.29	8.54
		For Up To 20, Add	6.24	
		For >200, Deduct	-2.84	
		For Work In Restricted Working Space, Add	8.08	
22 11 16 00-0431	LF	3" Diameter, Hard Drawn Type M Copper Tube/Pipe	67.96	10.06
		For Up To 20, Add	7.74	
		For >200, Deduct	-3.77	
		For Work In Restricted Working Space, Add	9.08	
22 11 16 00-0432	LF	4" Diameter, Hard Drawn Type M Copper Tube/Pipe	105.92	11.36
		For Up To 20, Add	12.36	
		For >200, Deduct	-7.06	
		For Work In Restricted Working Space, Add	10.59	
22 11 16 00-0433	LF	5" Diameter, Hard Drawn Type M Copper Tube/Pipe	177.84	13.04
		For Up To 20, Add	21.21	
		For >200, Deduct	-13.71	
		For Work In Restricted Working Space, Add	12.23	
22 11 16 00-0434	LF	6" Diameter, Hard Drawn Type M Copper Tube/Pipe	246.26	20.21
		For Up To 20, Add	29.20	
		For >200, Deduct	-18.32	
		For Work In Restricted Working Space, Add	18.93	
22 11 16 00-0435	LF	8" Diameter, Hard Drawn Type M Copper Tube/Pipe	416.51	22.47
		For Up To 20, Add	50.33	
		For >200, Deduct	-34.71	
		For Work In Restricted Working Space, Add	20.83	
22 11 16 00-0436		Soft Drawn Type L Copper Tube (22 11 16 00-0391)	7.05	3.05
22 11 16 00-0437	LF	1/4" Diameter, Soft Drawn Type L Copper Tube	0.77	
		For Up To 20, Add	0.77	
		For >200, Deduct	-0.25	
		For Work In Restricted Working Space, Add	1.37	
22 11 16 00-0438	LF	3/8" Diameter, Soft Drawn Type L Copper Tube	8.63	3.17
		For Up To 20, Add	0.96	
		For >200, Deduct	-0.39	
		For Work In Restricted Working Space, Add	1.43	
22 11 16 00-0439	LF	1/2" Diameter, Soft Drawn Type L Copper Tube	10.15	3.31
		For Up To 20, Add	1.14	
		For >200, Deduct	-0.52	
		For Work In Restricted Working Space, Add	1.49	
22 11 16 00-0440	LF	5/8" Diameter, Soft Drawn Type L Copper Tube	11.77	3.41
		For Up To 20, Add	1.34	
		For >200, Deduct	-0.67	
		For Work In Restricted Working Space, Add	1.53	
22 11 16 00-0441	LF	3/4" Diameter, Soft Drawn Type L Copper Tube	13.21	3.51
		For Up To 20, Add	1.52	
		For >200, Deduct	-0.80	
		For Work In Restricted Working Space, Add	1.58	
22 11 16 00-0442	LF	1" Diameter, Soft Drawn Type L Copper Tube	16.92	3.94
		For Up To 20, Add	1.97	
		For >200, Deduct	-1.10	
		For Work In Restricted Working Space, Add	1.77	
22 11 16 00-0443	LF	1-1/4" Diameter, Soft Drawn Type L Copper Tube	23.28	5.86
		For Up To 20, Add	2.69	
		For >200, Deduct	-1.45	
		For Work In Restricted Working Space, Add	2.64	
22 11 16 00-0444	LF	1-1/2" Diameter, Soft Drawn Type L Copper Tube	29.44	6.54
		For Up To 20, Add	3.44	
		For >200, Deduct	-1.96	
		For Work In Restricted Working Space, Add	2.94	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0445	LF		2" Diameter, Soft Drawn Type L Copper Tube	43.34	8.07
			For Up To 20, Add	5.12	
			For >200, Deduct	-3.12	
			For Work In Restricted Working Space, Add	3.63	
22 11 16 00-0446			Soft Drawn Type K Copper Tube (22 11 16 00-0391)		
22 11 16 00-0447	LF		1/4" Diameter, Soft Drawn Type K Copper Tube	7.30	3.05
			For Up To 20, Add	0.80	
			For >200, Deduct	-0.27	
			For Work In Restricted Working Space, Add	1.37	
22 11 16 00-0448	LF		3/8" Diameter, Soft Drawn Type K Copper Tube	9.44	3.17
			For Up To 20, Add	1.06	
			For >200, Deduct	-0.47	
			For Work In Restricted Working Space, Add	1.43	
22 11 16 00-0449	LF		1/2" Diameter, Soft Drawn Type K Copper Tube	10.82	3.31
			For Up To 20, Add	1.23	
			For >200, Deduct	-0.59	
			For Work In Restricted Working Space, Add	1.49	
22 11 16 00-0450	LF		5/8" Diameter, Soft Drawn Type K Copper Tube	12.10	3.41
			For Up To 20, Add	1.38	
			For >200, Deduct	-0.70	
			For Work In Restricted Working Space, Add	1.53	
22 11 16 00-0451	LF		3/4" Diameter, Soft Drawn Type K Copper Tube	16.10	3.51
			For Up To 20, Add	1.88	
			For >200, Deduct	-1.08	
			For Work In Restricted Working Space, Add	1.58	
22 11 16 00-0452	LF		1" Diameter, Soft Drawn Type K Copper Tube	20.30	3.94
			For Up To 20, Add	2.39	
			For >200, Deduct	-1.44	
			For Work In Restricted Working Space, Add	1.77	
22 11 16 00-0453	LF		1-1/4" Diameter, Soft Drawn Type K Copper Tube	25.76	5.86
			For Up To 20, Add	3.00	
			For >200, Deduct	-1.70	
			For Work In Restricted Working Space, Add	2.64	
22 11 16 00-0454	LF		1-1/2" Diameter, Soft Drawn Type K Copper Tube	33.38	6.54
			For Up To 20, Add	3.93	
			For >200, Deduct	-2.36	
			For Work In Restricted Working Space, Add	2.94	
22 11 16 00-0455	LF		2" Diameter, Soft Drawn Type K Copper Tube	48.75	8.07
			For Up To 20, Add	5.79	
			For >200, Deduct	-3.67	
			For Work In Restricted Working Space, Add	3.63	
22 11 16 00-0456	LF		2-1/2" Diameter, Soft Drawn Type K Copper Tube	69.48	9.67
			For Up To 20, Add	8.32	
			For >200, Deduct	-5.50	
			For Work In Restricted Working Space, Add	4.35	
22 11 16 00-0457	LF		3" Diameter, Soft Drawn Type K Copper Tube	93.60	11.42
			For Up To 20, Add	11.27	
			For >200, Deduct	-7.65	
			For Work In Restricted Working Space, Add	5.14	
22 11 16 00-0458			Copper And Brass Fittings (22 11 16 00-0390)		
			Note: All fittings are based on 95/5 solder.		
22 11 16 00-0459			90 Degree Copper Elbows (22 11 16 00-0458)		
22 11 16 00-0460	EA		1/4" Diameter, 90 Degree Copper Elbow	30.53	18.06
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.88	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.06	
			For Street Fitting, Add	1.38	
			For Work In Restricted Working Space, Add	8.12	
			For Silver Solder Instead Of 95/5 Solder, Add	4.23	
22 11 16 00-0461	EA		3/8" Diameter, 90 Degree Copper Elbow	36.15	21.67
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.43	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.88	
			For Street Fitting, Add	1.46	
			For Work In Restricted Working Space, Add	9.75	
			For Silver Solder Instead Of 95/5 Solder, Add	5.06	
22 11 16 00-0462	EA		1/2" Diameter, 90 Degree Copper Elbow	45.86	29.79
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.53	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.70	
			For Street Fitting, Add	0.47	
			For Work In Restricted Working Space, Add	13.40	
			For Silver Solder Instead Of 95/5 Solder, Add	6.76	
22 11 16 00-0463	EA		3/4" Diameter, 90 Degree Copper Elbow	58.18	37.11
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.69	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.33	
			For Street Fitting, Add	1.06	
			For Work In Restricted Working Space, Add	16.66	
			For Silver Solder Instead Of 95/5 Solder, Add	8.46	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0464 EA 1" Diameter, 90 Degree Copper Elbow.....	72.86	44.28
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.95	
For Street Fitting, Add	2.60	
For Work In Restricted Working Space, Add	19.91	
For Silver Solder Instead Of 95/5 Solder, Add	10.28	
22 11 16 00-0465 EA 1-1/4" Diameter, 90 Degree Copper Elbow.....	81.50	47.93
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.77	
For Street Fitting, Add	3.89	
For Work In Restricted Working Space, Add	21.53	
For Silver Solder Instead Of 95/5 Solder, Add	11.25	
22 11 16 00-0466 EA 1-1/2" Diameter, 90 Degree Copper Elbow.....	93.77	52.40
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.62	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.78	
For Street Fitting, Add	6.09	
For Work In Restricted Working Space, Add	23.56	
For Silver Solder Instead Of 95/5 Solder, Add	12.54	
22 11 16 00-0467 EA 2" Diameter, 90 Degree Copper Elbow.....	115.77	58.77
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.20	
For Street Fitting, Add	11.10	
For Work In Restricted Working Space, Add	26.40	
For Silver Solder Instead Of 95/5 Solder, Add	14.59	
22 11 16 00-0468 EA 2-1/2" Diameter, 90 Degree Copper Elbow.....	152.76	59.85
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.13	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.47	
For Work In Restricted Working Space, Add	26.93	
For Silver Solder Instead Of 95/5 Solder, Add	16.62	
22 11 16 00-0469 EA 3" Diameter, 90 Degree Copper Elbow.....	196.07	71.58
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.17	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.09	
For Work In Restricted Working Space, Add	32.18	
For Silver Solder Instead Of 95/5 Solder, Add	20.53	
22 11 16 00-0470 EA 4" Diameter, 90 Degree Copper Elbow.....	367.65	101.50
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-25.99	
For Brazed Fittings Instead Of 95/5 Solder, Add	22.82	
For Work In Restricted Working Space, Add	45.64	
For Silver Solder Instead Of 95/5 Solder, Add	33.60	
22 11 16 00-0471 EA 5" Diameter, 90 Degree Copper Elbow.....	1,111.10	138.91
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-65.97	
For Brazed Fittings Instead Of 95/5 Solder, Add	31.24	
For Work In Restricted Working Space, Add	62.48	
For Silver Solder Instead Of 95/5 Solder, Add	76.38	
22 11 16 00-0472 EA 6" Diameter, 90 Degree Copper Elbow.....	1,506.58	202.14
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-90.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	45.45	
For Work In Restricted Working Space, Add	90.91	
For Silver Solder Instead Of 95/5 Solder, Add	105.63	
22 11 16 00-0473 EA 8" Diameter, 90 Degree Copper Elbow.....	4,856.58	269.48
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-263.03	
For Brazed Fittings Instead Of 95/5 Solder, Add	60.60	
For Work In Restricted Working Space, Add	121.21	
For Silver Solder Instead Of 95/5 Solder, Add	283.23	
22 11 16 00-0474 90 Degree Brass Elbows (22 11 16 00-0458)		
22 11 16 00-0475 EA 1/2" Diameter, Drop Ear 90 Degree Brass Elbow.....	52.11	29.79
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.70	
For Work In Restricted Working Space, Add	13.40	
For Silver Solder Instead Of 95/5 Solder, Add	7.07	
22 11 16 00-0476 EA 3/4" Diameter, Drop Ear 90 Degree Brass Elbow.....	77.19	37.11
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.64	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.33	
For Work In Restricted Working Space, Add	16.66	
For Silver Solder Instead Of 95/5 Solder, Add	9.41	
22 11 16 00-0477 EA 1/2" Diameter, Flanged Sink 90 Degree Brass Elbow.....	58.23	29.79
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.15	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.70	
For Work In Restricted Working Space, Add	13.40	
For Silver Solder Instead Of 95/5 Solder, Add	7.38	
22 11 16 00-0478 EA 3/8" Diameter, Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	43.62	21.67
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.81	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.88	
For Work In Restricted Working Space, Add	9.75	
For Silver Solder Instead Of 95/5 Solder, Add	5.43	
22 11 16 00-0479 EA 1/2" Diameter, Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	52.64	29.79
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.87	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.70	
For Work In Restricted Working Space, Add	13.40	
For Silver Solder Instead Of 95/5 Solder, Add	7.10	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0480 EA 3/4" Diameter, Drop Ear 90 Degree Brass Elbow, Solder X Threaded For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	69.53 -6.25 8.33 16.66 9.03	37.11
22 11 16 00-0481 EA 1" Diameter, Drop Ear 90 Degree Brass Elbow, Solder X Threaded For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	111.08 -8.87 9.95 19.91 12.19	44.28
22 11 16 00-0482 Reducing 90 Degree Copper Elbows (22 11 16 00-0458)		
22 11 16 00-0483 EA 1/2" Diameter, Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	54.28 -4.95 6.70 13.40 7.18	29.79
22 11 16 00-0484 EA 3/4" Diameter, Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	62.33 -5.89 8.33 16.66 8.67	37.11
22 11 16 00-0485 EA 1" Diameter, Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	78.85 -7.26 9.95 19.91 10.58	44.28
22 11 16 00-0486 EA 1-1/4" Diameter, Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	103.61 -8.77 10.77 21.53 12.36	47.93
22 11 16 00-0487 EA 1-1/2" Diameter, Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	120.37 -9.95 11.78 23.56 13.87	52.40
22 11 16 00-0488 EA 2" Diameter, Reducing 90 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	144.31 -11.62 13.20 26.40 16.02	58.77
22 11 16 00-0489 45 Degree Copper Elbows (22 11 16 00-0458)		
22 11 16 00-0490 EA 1/4" Diameter, 45 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	33.53 -3.03 4.06 2.58 8.12 4.38	18.06
22 11 16 00-0491 EA 3/8" Diameter, 45 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	38.03 -3.53 4.88 2.21 9.75 5.15	21.67
22 11 16 00-0492 EA 1/2" Diameter, 45 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	46.85 -4.58 6.70 0.87 13.40 6.81	29.79
22 11 16 00-0493 EA 3/4" Diameter, 45 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	59.24 -5.74 8.33 1.49 16.66 8.51	37.11
22 11 16 00-0494 EA 1" Diameter, 45 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	75.62 -7.10 9.95 3.71 19.91 10.42	44.28
22 11 16 00-0495 EA 1-1/4" Diameter, 45 Degree Copper Elbow For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	84.33 -7.81 10.77 5.02 21.53 11.39	47.93

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0496	EA	1-1/2" Diameter, 45 Degree Copper Elbow.....	93.96	52.40	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.63		
		For Brazed Fittings Instead Of 95/5 Solder, Add	11.78		
		For Street Fitting, Add	6.17		
		For Work In Restricted Working Space, Add	23.56		
		For Silver Solder Instead Of 95/5 Solder, Add	12.55		
22 11 16 00-0497	EA	2" Diameter, 45 Degree Copper Elbow.....	113.73	58.77	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.09		
		For Brazed Fittings Instead Of 95/5 Solder, Add	13.20		
		For Work In Restricted Working Space, Add	26.40		
		For Silver Solder Instead Of 95/5 Solder, Add	14.49		
22 11 16 00-0498	EA	2-1/2" Diameter, 45 Degree Copper Elbow.....	152.00	59.85	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.09		
		For Brazed Fittings Instead Of 95/5 Solder, Add	13.47		
		For Work In Restricted Working Space, Add	26.93		
		For Silver Solder Instead Of 95/5 Solder, Add	16.58		
22 11 16 00-0499	EA	3" Diameter, 45 Degree Copper Elbow.....	199.57	71.58	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.34		
		For Brazed Fittings Instead Of 95/5 Solder, Add	16.09		
		For Work In Restricted Working Space, Add	32.18		
		For Silver Solder Instead Of 95/5 Solder, Add	20.70		
22 11 16 00-0500	EA	4" Diameter, 45 Degree Copper Elbow.....	349.00	101.50	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-25.06		
		For Brazed Fittings Instead Of 95/5 Solder, Add	22.82		
		For Work In Restricted Working Space, Add	45.64		
		For Silver Solder Instead Of 95/5 Solder, Add	32.66		
22 11 16 00-0501	EA	5" Diameter, 45 Degree Copper Elbow.....	970.67	138.91	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-58.95		
		For Brazed Fittings Instead Of 95/5 Solder, Add	31.24		
		For Work In Restricted Working Space, Add	62.48		
		For Silver Solder Instead Of 95/5 Solder, Add	69.36		
22 11 16 00-0502	EA	6" Diameter, 45 Degree Copper Elbow.....	1,504.52	202.14	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-90.38		
		For Brazed Fittings Instead Of 95/5 Solder, Add	45.45		
		For Work In Restricted Working Space, Add	90.91		
		For Silver Solder Instead Of 95/5 Solder, Add	105.53		
22 11 16 00-0503	EA	8" Diameter, 45 Degree Copper Elbow.....	4,486.68	269.48	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-244.54		
		For Brazed Fittings Instead Of 95/5 Solder, Add	60.60		
		For Work In Restricted Working Space, Add	121.21		
		For Silver Solder Instead Of 95/5 Solder, Add	264.74		
22 11 16 00-0504 Straight Copper And Brass Tees (22 11 16 00-0458)					
22 11 16 00-0505	EA	1/4" Diameter, Straight Copper Tee.....	47.87	27.08	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.43		
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.09		
		For Work In Restricted Working Space, Add	12.19		
		For Silver Solder Instead Of 95/5 Solder, Add	6.46		
22 11 16 00-0506	EA	3/8" Diameter, Straight Copper Tee.....	54.57	32.50	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.17		
		For Brazed Fittings Instead Of 95/5 Solder, Add	7.31		
		For Work In Restricted Working Space, Add	14.63		
		For Silver Solder Instead Of 95/5 Solder, Add	7.60		
22 11 16 00-0507	EA	1/2" Diameter, Straight Copper Tee.....	69.74	45.23	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.87		
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.16		
		For Work In Restricted Working Space, Add	20.31		
		For Silver Solder Instead Of 95/5 Solder, Add	10.26		
22 11 16 00-0508	EA	3/4" Diameter, Straight Copper Tee.....	88.83	56.06	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.64		
		For Brazed Fittings Instead Of 95/5 Solder, Add	12.59		
		For Work In Restricted Working Space, Add	25.19		
		For Silver Solder Instead Of 95/5 Solder, Add	12.84		
22 11 16 00-0509	EA	1" Diameter, Straight Copper Tee.....	114.84	66.89	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.75		
		For Brazed Fittings Instead Of 95/5 Solder, Add	15.03		
		For Work In Restricted Working Space, Add	30.06		
		For Silver Solder Instead Of 95/5 Solder, Add	15.76		
22 11 16 00-0510	EA	1-1/4" Diameter, Straight Copper Tee.....	128.72	72.30	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.85		
		For Brazed Fittings Instead Of 95/5 Solder, Add	16.25		
		For Work In Restricted Working Space, Add	32.50		
		For Silver Solder Instead Of 95/5 Solder, Add	17.27		
22 11 16 00-0511	EA	1-1/2" Diameter, Straight Copper Tee.....	148.65	78.54	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.32		
		For Brazed Fittings Instead Of 95/5 Solder, Add	17.67		
		For Work In Restricted Working Space, Add	35.34		
		For Silver Solder Instead Of 95/5 Solder, Add	19.21		
22 11 16 00-0512	EA	2" Diameter, Straight Copper Tee.....	181.74	88.56	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.72		
		For Brazed Fittings Instead Of 95/5 Solder, Add	19.91		
		For Work In Restricted Working Space, Add	39.81		
		For Silver Solder Instead Of 95/5 Solder, Add	22.36		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0513	EA		2-1/2" Diameter, Straight Copper Tee.....	246.94	89.78
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.08	
			For Brazed Fittings Instead Of 95/5 Solder, Add	20.20	
			For Work In Restricted Working Space, Add	40.40	
			For Silver Solder Instead Of 95/5 Solder, Add	25.81	
22 11 16 00-0514	EA		3" Diameter, Straight Copper Tee.....	333.63	108.12
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-24.79	
			For Brazed Fittings Instead Of 95/5 Solder, Add	24.32	
			For Work In Restricted Working Space, Add	48.63	
			For Silver Solder Instead Of 95/5 Solder, Add	32.89	
22 11 16 00-0515	EA		4" Diameter, Straight Copper Tee.....	642.06	151.39
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-43.45	
			For Brazed Fittings Instead Of 95/5 Solder, Add	34.04	
			For Work In Restricted Working Space, Add	68.09	
			For Silver Solder Instead Of 95/5 Solder, Add	54.80	
22 11 16 00-0516	EA		5" Diameter, Straight Copper Tee.....	1,667.51	207.12
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-98.90	
			For Brazed Fittings Instead Of 95/5 Solder, Add	46.58	
			For Work In Restricted Working Space, Add	93.15	
			For Silver Solder Instead Of 95/5 Solder, Add	114.43	
22 11 16 00-0517	EA		6" Diameter, Straight Copper Tee.....	2,310.15	303.65
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-138.27	
			For Brazed Fittings Instead Of 95/5 Solder, Add	68.27	
			For Work In Restricted Working Space, Add	136.55	
			For Silver Solder Instead Of 95/5 Solder, Add	161.02	
22 11 16 00-0518	EA		8" Diameter, Straight Copper Tee.....	7,761.64	404.28
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-418.38	
			For Brazed Fittings Instead Of 95/5 Solder, Add	90.91	
			For Work In Restricted Working Space, Add	181.82	
			For Silver Solder Instead Of 95/5 Solder, Add	448.69	
22 11 16 00-0519	EA		1/2" Diameter, Cast Bronze Drop Ear Tee.....	80.23	45.23
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.40	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.16	
			For Work In Restricted Working Space, Add	20.31	
			For Silver Solder Instead Of 95/5 Solder, Add	10.78	
22 11 16 00-0520			Reducing Copper Tees (22 11 16 00-0458)		
22 11 16 00-0521	EA		3/8" Diameter, Reducing Copper Tee.....	54.84	28.84
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.50	
			For Work In Restricted Working Space, Add	13.00	
			For Silver Solder Instead Of 95/5 Solder, Add	7.08	
22 11 16 00-0522	EA		1/2" Diameter, Reducing Copper Tee.....	71.06	40.63
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.60	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.14	
			For Work In Restricted Working Space, Add	18.28	
			For Silver Solder Instead Of 95/5 Solder, Add	9.65	
22 11 16 00-0523	EA		3/4" Diameter, Reducing Copper Tee.....	83.70	52.40
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.11	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.78	
			For Work In Restricted Working Space, Add	23.56	
			For Silver Solder Instead Of 95/5 Solder, Add	12.04	
22 11 16 00-0524	EA		1" Diameter, Reducing Copper Tee.....	111.19	63.23
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.30	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.22	
			For Work In Restricted Working Space, Add	28.43	
			For Silver Solder Instead Of 95/5 Solder, Add	15.04	
22 11 16 00-0525	EA		1-1/4" Diameter, Reducing Copper Tee.....	127.81	68.65
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.54	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.44	
			For Work In Restricted Working Space, Add	30.87	
			For Silver Solder Instead Of 95/5 Solder, Add	16.68	
22 11 16 00-0526	EA		1-1/2" Diameter, Reducing Copper Tee.....	147.58	75.02
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.00	
			For Brazed Fittings Instead Of 95/5 Solder, Add	16.86	
			For Work In Restricted Working Space, Add	33.72	
			For Silver Solder Instead Of 95/5 Solder, Add	18.62	
22 11 16 00-0527	EA		2" Diameter, Reducing Copper Tee.....	176.81	83.96
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.14	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.89	
			For Work In Restricted Working Space, Add	37.78	
			For Silver Solder Instead Of 95/5 Solder, Add	21.43	
22 11 16 00-0528	EA		2-1/2" Diameter, Reducing Copper Tee.....	252.68	86.54
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.12	
			For Brazed Fittings Instead Of 95/5 Solder, Add	19.45	
			For Work In Restricted Working Space, Add	38.91	
			For Silver Solder Instead Of 95/5 Solder, Add	25.60	
22 11 16 00-0529	EA		3" Diameter, Reducing Copper Tee.....	351.60	99.76
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-25.06	
			For Brazed Fittings Instead Of 95/5 Solder, Add	22.45	
			For Work In Restricted Working Space, Add	44.89	
			For Silver Solder Instead Of 95/5 Solder, Add	32.54	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0530 EA 4" Diameter, Reducing Copper Tee..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	609.71 -39.71 27.68 55.37 48.94	123.08
22 11 16 00-0531 Copper Couplings (22 11 16 00-0458)		
22 11 16 00-0532 EA 1/4" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	23.17 -2.28 3.37 6.74 3.41	15.03
22 11 16 00-0533 EA 3/8" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	27.90 -2.74 4.05 8.09 4.09	18.01
22 11 16 00-0534 EA 1/2" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	37.85 -3.75 5.56 11.13 5.60	24.65
22 11 16 00-0535 EA 3/4" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	47.63 -4.69 6.91 13.82 6.99	30.74
22 11 16 00-0536 EA 1" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	58.13 -5.66 8.26 16.52 8.41	36.69
22 11 16 00-0537 EA 1-1/4" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	64.95 -6.23 8.93 17.87 9.20	39.68
22 11 16 00-0538 EA 1-1/2" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	72.32 -6.88 9.78 19.55 10.13	43.46
22 11 16 00-0539 EA 2" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	84.92 -7.90 10.96 21.92 11.55	48.61
22 11 16 00-0540 EA 2-1/2" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	102.06 -8.79 11.07 22.15 12.49	49.13
22 11 16 00-0541 EA 3" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	129.79 -11.06 13.70 27.41 15.62	60.85
22 11 16 00-0542 EA 4" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	214.11 -17.18 19.42 38.83 23.65	86.17
22 11 16 00-0543 EA 5" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	363.90 -27.57 28.11 56.23 36.94	124.82
22 11 16 00-0544 EA 6" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	564.34 -41.85 40.91 81.82 55.49	181.69
22 11 16 00-0545 EA 8" Diameter, Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	1,308.93 -83.63 54.54 109.09 101.81	242.17
22 11 16 00-0546 Reducing Copper Couplings (22 11 16 00-0458)		
22 11 16 00-0547 EA 3/8" Diameter, Reducing Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	26.24 -2.55 3.71 7.42 3.79	16.51



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0548	EA	1/2" Diameter, Reducing Copper Coupling.....	33.62	21.40	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.28		
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.61		
		For Work In Restricted Working Space, Add	9.61		
		For Silver Solder Instead Of 95/5 Solder, Add	4.89		
22 11 16 00-0549	EA	3/4" Diameter, Reducing Copper Coupling.....	44.31	27.76	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.29		
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.24		
		For Work In Restricted Working Space, Add	12.47		
		For Silver Solder Instead Of 95/5 Solder, Add	6.37		
22 11 16 00-0550	EA	1" Diameter, Reducing Copper Coupling.....	55.50	33.72	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.30		
		For Brazed Fittings Instead Of 95/5 Solder, Add	7.59		
		For Work In Restricted Working Space, Add	15.17		
		For Silver Solder Instead Of 95/5 Solder, Add	7.83		
22 11 16 00-0551	EA	1-1/4" Diameter, Reducing Copper Coupling.....	64.19	38.19	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.08		
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.60		
		For Work In Restricted Working Space, Add	17.20		
		For Silver Solder Instead Of 95/5 Solder, Add	8.94		
22 11 16 00-0552	EA	1-1/2" Diameter, Reducing Copper Coupling.....	73.77	41.57	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.81		
		For Brazed Fittings Instead Of 95/5 Solder, Add	9.36		
		For Work In Restricted Working Space, Add	18.72		
		For Silver Solder Instead Of 95/5 Solder, Add	9.93		
22 11 16 00-0553	EA	2" Diameter, Reducing Copper Coupling.....	86.73	46.03	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.79		
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.37		
		For Work In Restricted Working Space, Add	20.74		
		For Silver Solder Instead Of 95/5 Solder, Add	11.25		
22 11 16 00-0554	EA	2-1/2" Diameter, Reducing Copper Coupling.....	112.45	47.01	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.15		
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.58		
		For Work In Restricted Working Space, Add	21.17		
		For Silver Solder Instead Of 95/5 Solder, Add	12.68		
22 11 16 00-0555	EA	3" Diameter, Reducing Copper Coupling.....	134.38	55.00	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.85		
		For Brazed Fittings Instead Of 95/5 Solder, Add	12.39		
		For Work In Restricted Working Space, Add	24.78		
		For Silver Solder Instead Of 95/5 Solder, Add	14.98		
22 11 16 00-0556	EA	4" Diameter, Reducing Copper Coupling.....	213.23	73.57	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.18		
		For Brazed Fittings Instead Of 95/5 Solder, Add	16.56		
		For Work In Restricted Working Space, Add	33.12		
		For Silver Solder Instead Of 95/5 Solder, Add	21.70		
22 11 16 00-0557	EA	5" Diameter, Reducing Copper Coupling.....	556.67	103.01	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-35.56		
		For Brazed Fittings Instead Of 95/5 Solder, Add	23.19		
		For Work In Restricted Working Space, Add	46.37		
		For Silver Solder Instead Of 95/5 Solder, Add	43.29		
22 11 16 00-0558	EA	6" Diameter, Reducing Copper Coupling.....	819.88	131.31	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-50.85		
		For Brazed Fittings Instead Of 95/5 Solder, Add	29.58		
		For Work In Restricted Working Space, Add	59.16		
		For Silver Solder Instead Of 95/5 Solder, Add	60.72		
22 11 16 00-0559	EA	8" Diameter, Reducing Copper Coupling.....	1,638.00	211.74	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-97.80		
		For Brazed Fittings Instead Of 95/5 Solder, Add	47.70		
		For Work In Restricted Working Space, Add	95.40		
		For Silver Solder Instead Of 95/5 Solder, Add	113.70		
22 11 16 00-0560	Male Copper Adapters (22 11 16 00-0458)				
22 11 16 00-0561	EA	1/4" Diameter, Male Copper Adapter.....	39.28	17.60	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.32		
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.06		
		For Work In Restricted Working Space, Add	8.12		
		For Silver Solder Instead Of 95/5 Solder, Add	4.67		
22 11 16 00-0562	EA	3/8" Diameter, Male Copper Adapter.....	38.58	21.67	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.55		
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.88		
		For Work In Restricted Working Space, Add	9.75		
		For Silver Solder Instead Of 95/5 Solder, Add	5.18		
22 11 16 00-0563	EA	1/2" Diameter, Male Copper Adapter.....	43.10	27.08	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.19		
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.09		
		For Work In Restricted Working Space, Add	12.19		
		For Silver Solder Instead Of 95/5 Solder, Add	6.22		
22 11 16 00-0564	EA	3/4" Diameter, Male Copper Adapter.....	54.28	33.86	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.22		
		For Brazed Fittings Instead Of 95/5 Solder, Add	7.52		
		For Work In Restricted Working Space, Add	15.03		
		For Silver Solder Instead Of 95/5 Solder, Add	7.72		

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0565	EA	1" Diameter, Male Copper Adapter.....	68.84	39.26
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.35	
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.73	
		For Work In Restricted Working Space, Add	17.47	
		For Silver Solder Instead Of 95/5 Solder, Add	9.26	
22 11 16 00-0566	EA	1-1/4" Diameter, Male Copper Adapter.....	83.16	44.68
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.54	
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.16	
		For Work In Restricted Working Space, Add	20.31	
		For Silver Solder Instead Of 95/5 Solder, Add	10.93	
22 11 16 00-0567	EA	1-1/2" Diameter, Male Copper Adapter.....	95.28	51.45
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.62	
		For Brazed Fittings Instead Of 95/5 Solder, Add	11.58	
		For Work In Restricted Working Space, Add	23.16	
		For Silver Solder Instead Of 95/5 Solder, Add	12.48	
22 11 16 00-0568	EA	2" Diameter, Male Copper Adapter.....	129.47	65.68
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.42	
		For Brazed Fittings Instead Of 95/5 Solder, Add	14.83	
		For Work In Restricted Working Space, Add	29.66	
		For Silver Solder Instead Of 95/5 Solder, Add	16.36	
22 11 16 00-0569	EA	2-1/2" Diameter, Male Copper Adapter.....	239.97	85.31
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.36	
		For Brazed Fittings Instead Of 95/5 Solder, Add	19.09	
		For Work In Restricted Working Space, Add	38.19	
		For Silver Solder Instead Of 95/5 Solder, Add	24.73	
22 11 16 00-0570	EA	3" Diameter, Male Copper Adapter.....	318.77	113.79
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-24.42	
		For Brazed Fittings Instead Of 95/5 Solder, Add	25.44	
		For Work In Restricted Working Space, Add	50.88	
		For Silver Solder Instead Of 95/5 Solder, Add	32.90	
22 11 16 00-0571	EA	4" Diameter, Male Copper Adapter.....	478.00	159.62
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-35.87	
		For Brazed Fittings Instead Of 95/5 Solder, Add	35.91	
		For Work In Restricted Working Space, Add	71.83	
		For Silver Solder Instead Of 95/5 Solder, Add	47.84	
22 11 16 00-0572 Female Copper Adapters (22 11 16 00-0458)				
22 11 16 00-0573	EA	1/4" Diameter, Female Copper Adapter.....	34.87	17.60
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.10	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.06	
		For Work In Restricted Working Space, Add	8.12	
		For Silver Solder Instead Of 95/5 Solder, Add	4.45	
22 11 16 00-0574	EA	3/8" Diameter, Female Copper Adapter.....	40.66	21.67
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.66	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.88	
		For Work In Restricted Working Space, Add	9.75	
		For Silver Solder Instead Of 95/5 Solder, Add	5.28	
22 11 16 00-0575	EA	1/2" Diameter, Female Copper Adapter.....	44.58	27.08
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.26	
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.09	
		For Work In Restricted Working Space, Add	12.19	
		For Silver Solder Instead Of 95/5 Solder, Add	6.29	
22 11 16 00-0576	EA	3/4" Diameter, Female Copper Adapter.....	55.49	33.86
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.28	
		For Brazed Fittings Instead Of 95/5 Solder, Add	7.52	
		For Work In Restricted Working Space, Add	15.03	
		For Silver Solder Instead Of 95/5 Solder, Add	7.78	
22 11 16 00-0577	EA	1" Diameter, Female Copper Adapter.....	70.55	39.26
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.44	
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.73	
		For Work In Restricted Working Space, Add	17.47	
		For Silver Solder Instead Of 95/5 Solder, Add	9.35	
22 11 16 00-0578	EA	1-1/4" Diameter, Female Copper Adapter.....	85.79	44.68
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.67	
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.16	
		For Work In Restricted Working Space, Add	20.31	
		For Silver Solder Instead Of 95/5 Solder, Add	11.06	
22 11 16 00-0579	EA	1-1/2" Diameter, Female Copper Adapter.....	105.51	51.45
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.14	
		For Brazed Fittings Instead Of 95/5 Solder, Add	11.58	
		For Work In Restricted Working Space, Add	23.16	
		For Silver Solder Instead Of 95/5 Solder, Add	12.99	
22 11 16 00-0580	EA	2" Diameter, Female Copper Adapter.....	137.26	65.68
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.81	
		For Brazed Fittings Instead Of 95/5 Solder, Add	14.83	
		For Work In Restricted Working Space, Add	29.66	
		For Silver Solder Instead Of 95/5 Solder, Add	16.75	
22 11 16 00-0581	EA	2-1/2" Diameter, Female Copper Adapter.....	276.22	78.56
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.67	
		For Brazed Fittings Instead Of 95/5 Solder, Add	17.58	
		For Work In Restricted Working Space, Add	35.17	
		For Silver Solder Instead Of 95/5 Solder, Add	25.53	



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Plumbing Piping			22 10
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0582 EA 3" Diameter, Female Copper Adapter..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	437.43 -30.35 25.44 50.88 38.83	113.79
22 11 16 00-0583 Wrot Copper, Solder Union (22 11 16 00-0458)		
22 11 16 00-0584 EA 1/4" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	51.26 -4.19 4.88 9.75 5.81	21.67
22 11 16 00-0585 EA 3/8" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	58.59 -4.89 5.89 11.78 6.86	26.13
22 11 16 00-0586 EA 1/2" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	60.69 -5.47 7.31 14.63 7.91	32.50
22 11 16 00-0587 EA 3/4" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	70.21 -6.29 8.33 16.66 9.06	37.11
22 11 16 00-0588 EA 1" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	91.59 -7.90 9.95 19.91 11.21	44.28
22 11 16 00-0589 EA 1-1/4" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	109.67 -9.14 10.97 21.94 12.80	48.75
22 11 16 00-0590 EA 1-1/2" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	132.78 -10.70 12.19 24.37 14.76	54.17
22 11 16 00-0591 EA 2" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	185.36 -14.14 14.63 29.25 19.02	65.00
22 11 16 00-0592 EA 2-1/2" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	346.84 -22.70 16.09 32.18 28.07	71.58
22 11 16 00-0593 EA 3" Diameter, Wrot Copper, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	772.13 -46.21 22.82 45.64 53.82	101.50
22 11 16 00-0594 Cast Bronze, Solder Union (22 11 16 00-0458)		
22 11 16 00-0595 EA 1/4" Diameter, Cast Bronze, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	58.17 -4.53 4.88 9.75 6.16	21.67
22 11 16 00-0596 EA 3/8" Diameter, Cast Bronze, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	65.11 -5.22 5.89 11.78 7.18	26.13
22 11 16 00-0597 EA 1/2" Diameter, Cast Bronze, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	62.51 -5.56 7.31 14.63 8.00	32.50
22 11 16 00-0598 EA 3/4" Diameter, Cast Bronze, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	72.78 -6.42 8.33 16.66 9.19	37.11
22 11 16 00-0599 EA 1" Diameter, Cast Bronze, Solder Union..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	96.05 -8.12 9.95 19.91 11.44	44.28

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0600	EA	1-1/4" Diameter, Cast Bronze, Solder Union.....	121.86	48.75
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.75	
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.97	
		For Work In Restricted Working Space, Add	21.94	
		For Silver Solder Instead Of 95/5 Solder, Add	13.41	
22 11 16 00-0601	EA	1-1/2" Diameter, Cast Bronze, Solder Union.....	145.49	54.17
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.34	
		For Brazed Fittings Instead Of 95/5 Solder, Add	12.19	
		For Work In Restricted Working Space, Add	24.37	
		For Silver Solder Instead Of 95/5 Solder, Add	15.40	
22 11 16 00-0602	EA	2" Diameter, Cast Bronze, Solder Union.....	207.00	65.00
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.23	
		For Brazed Fittings Instead Of 95/5 Solder, Add	14.63	
		For Work In Restricted Working Space, Add	29.25	
		For Silver Solder Instead Of 95/5 Solder, Add	20.10	
22 11 16 00-0603	EA	2-1/2" Diameter, Cast Bronze, Solder Union.....	346.82	71.58
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-22.70	
		For Brazed Fittings Instead Of 95/5 Solder, Add	16.09	
		For Work In Restricted Working Space, Add	32.18	
		For Silver Solder Instead Of 95/5 Solder, Add	28.07	
22 11 16 00-0604	EA	3" Diameter, Cast Bronze, Solder Union.....	772.13	101.50
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-46.21	
		For Brazed Fittings Instead Of 95/5 Solder, Add	22.82	
		For Work In Restricted Working Space, Add	45.64	
		For Silver Solder Instead Of 95/5 Solder, Add	53.82	
22 11 16 00-0605 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0458)				
22 11 16 00-0606	EA	1/4" Diameter, Cast Bronze, Solder X Female Threaded Union	67.51	21.67
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.00	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.88	
		For Work In Restricted Working Space, Add	9.75	
		For Silver Solder Instead Of 95/5 Solder, Add	6.63	
22 11 16 00-0607	EA	3/8" Diameter, Cast Bronze, Solder X Female Threaded Union	75.49	26.13
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.74	
		For Brazed Fittings Instead Of 95/5 Solder, Add	5.89	
		For Work In Restricted Working Space, Add	11.78	
		For Silver Solder Instead Of 95/5 Solder, Add	7.70	
22 11 16 00-0608	EA	1/2" Diameter, Cast Bronze, Solder X Female Threaded Union	77.52	32.50
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.31	
		For Brazed Fittings Instead Of 95/5 Solder, Add	7.31	
		For Work In Restricted Working Space, Add	14.63	
		For Silver Solder Instead Of 95/5 Solder, Add	8.75	
22 11 16 00-0609	EA	3/4" Diameter, Cast Bronze, Solder X Female Threaded Union	94.74	37.11
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.51	
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.33	
		For Work In Restricted Working Space, Add	16.66	
		For Silver Solder Instead Of 95/5 Solder, Add	10.29	
22 11 16 00-0610	EA	1" Diameter, Cast Bronze, Solder X Female Threaded Union	147.93	44.28
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.71	
		For Brazed Fittings Instead Of 95/5 Solder, Add	9.95	
		For Work In Restricted Working Space, Add	19.91	
		For Silver Solder Instead Of 95/5 Solder, Add	14.03	
22 11 16 00-0611	EA	1-1/4" Diameter, Cast Bronze, Solder X Female Threaded Union	225.16	48.75
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.91	
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.97	
		For Work In Restricted Working Space, Add	21.94	
		For Silver Solder Instead Of 95/5 Solder, Add	18.57	
22 11 16 00-0612	EA	1-1/2" Diameter, Cast Bronze, Solder X Female Threaded Union	273.85	54.17
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.75	
		For Brazed Fittings Instead Of 95/5 Solder, Add	12.19	
		For Work In Restricted Working Space, Add	24.37	
		For Silver Solder Instead Of 95/5 Solder, Add	21.82	
22 11 16 00-0613	EA	2" Diameter, Cast Bronze, Solder X Female Threaded Union	423.54	65.00
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.05	
		For Brazed Fittings Instead Of 95/5 Solder, Add	14.63	
		For Work In Restricted Working Space, Add	29.25	
		For Silver Solder Instead Of 95/5 Solder, Add	30.93	
22 11 16 00-0614	EA	2-1/2" Diameter, Cast Bronze, Solder X Female Threaded Union	725.31	71.58
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-41.63	
		For Brazed Fittings Instead Of 95/5 Solder, Add	16.09	
		For Work In Restricted Working Space, Add	32.18	
		For Silver Solder Instead Of 95/5 Solder, Add	46.99	
22 11 16 00-0615 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0458)				
22 11 16 00-0616	EA	1/4" Diameter, Cast Bronze, Solder X Male Threaded Union	59.17	21.67
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.58	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.88	
		For Work In Restricted Working Space, Add	9.75	
		For Silver Solder Instead Of 95/5 Solder, Add	6.21	
22 11 16 00-0617	EA	3/8" Diameter, Cast Bronze, Solder X Male Threaded Union	70.39	26.13
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.48	
		For Brazed Fittings Instead Of 95/5 Solder, Add	5.89	
		For Work In Restricted Working Space, Add	11.78	
		For Silver Solder Instead Of 95/5 Solder, Add	7.45	



Plumbing			22
Plumbing Piping			22 10
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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
22 11 16 00-0618	EA	1/2" Diameter, Cast Bronze, Solder X Male Threaded Union	71.46	32.50
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.01	
		For Brazed Fittings Instead Of 95/5 Solder, Add	7.31	
		For Work In Restricted Working Space, Add	14.63	
		For Silver Solder Instead Of 95/5 Solder, Add	8.45	
22 11 16 00-0619	EA	3/4" Diameter, Cast Bronze, Solder X Male Threaded Union	89.61	37.11
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.26	
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.33	
		For Work In Restricted Working Space, Add	16.66	
		For Silver Solder Instead Of 95/5 Solder, Add	10.03	
22 11 16 00-0620	EA	1" Diameter, Cast Bronze, Solder X Male Threaded Union	150.28	44.28
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.83	
		For Brazed Fittings Instead Of 95/5 Solder, Add	9.95	
		For Work In Restricted Working Space, Add	19.91	
		For Silver Solder Instead Of 95/5 Solder, Add	14.15	
22 11 16 00-0621	EA	1-1/4" Diameter, Cast Bronze, Solder X Male Threaded Union	177.24	48.75
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.52	
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.97	
		For Work In Restricted Working Space, Add	21.94	
		For Silver Solder Instead Of 95/5 Solder, Add	16.17	
22 11 16 00-0622	EA	1-1/2" Diameter, Cast Bronze, Solder X Male Threaded Union	190.60	54.17
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.59	
		For Brazed Fittings Instead Of 95/5 Solder, Add	12.19	
		For Work In Restricted Working Space, Add	24.37	
		For Silver Solder Instead Of 95/5 Solder, Add	17.65	
22 11 16 00-0623	EA	2" Diameter, Cast Bronze, Solder X Male Threaded Union	265.48	65.00
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.15	
		For Brazed Fittings Instead Of 95/5 Solder, Add	14.63	
		For Work In Restricted Working Space, Add	29.25	
		For Silver Solder Instead Of 95/5 Solder, Add	23.02	
22 11 16 00-0624	EA	2-1/2" Diameter, Cast Bronze, Solder X Male Threaded Union	599.52	71.58
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-35.34	
		For Brazed Fittings Instead Of 95/5 Solder, Add	16.09	
		For Work In Restricted Working Space, Add	32.18	
		For Silver Solder Instead Of 95/5 Solder, Add	40.70	
22 11 16 00-0625		Copper Caps (22 11 16 00-0458)		
22 11 16 00-0626	EA	1/4" Diameter, Copper Cap.....	9.99	5.96
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.95	
		For Brazed Fittings Instead Of 95/5 Solder, Add	1.34	
		For Work In Restricted Working Space, Add	2.68	
		For Silver Solder Instead Of 95/5 Solder, Add	1.39	
22 11 16 00-0627	EA	3/8" Diameter, Copper Cap.....	12.40	7.04
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.16	
		For Brazed Fittings Instead Of 95/5 Solder, Add	1.61	
		For Work In Restricted Working Space, Add	3.22	
		For Silver Solder Instead Of 95/5 Solder, Add	1.69	
22 11 16 00-0628	EA	1/2" Diameter, Copper Cap.....	15.61	9.75
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.52	
		For Brazed Fittings Instead Of 95/5 Solder, Add	2.21	
		For Work In Restricted Working Space, Add	4.43	
		For Silver Solder Instead Of 95/5 Solder, Add	2.26	
22 11 16 00-0629	EA	3/4" Diameter, Copper Cap.....	19.93	12.06
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.91	
		For Brazed Fittings Instead Of 95/5 Solder, Add	2.75	
		For Work In Restricted Working Space, Add	5.50	
		For Silver Solder Instead Of 95/5 Solder, Add	2.83	
22 11 16 00-0630	EA	1" Diameter, Copper Cap.....	25.67	14.49
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.38	
		For Brazed Fittings Instead Of 95/5 Solder, Add	3.28	
		For Work In Restricted Working Space, Add	6.57	
		For Silver Solder Instead Of 95/5 Solder, Add	3.47	
22 11 16 00-0631	EA	1-1/4" Diameter, Copper Cap	28.75	15.58
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.62	
		For Brazed Fittings Instead Of 95/5 Solder, Add	3.55	
		For Work In Restricted Working Space, Add	7.11	
		For Silver Solder Instead Of 95/5 Solder, Add	3.81	
22 11 16 00-0632	EA	1-1/2" Diameter, Copper Cap	33.29	17.06
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.96	
		For Brazed Fittings Instead Of 95/5 Solder, Add	3.89	
		For Work In Restricted Working Space, Add	7.78	
		For Silver Solder Instead Of 95/5 Solder, Add	4.26	
22 11 16 00-0633	EA	2" Diameter, Copper Cap.....	40.37	17.71
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.36	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.01	
		For Work In Restricted Working Space, Add	8.03	
		For Silver Solder Instead Of 95/5 Solder, Add	4.69	
22 11 16 00-0634	EA	2-1/2" Diameter, Copper Cap	78.62	20.70
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.50	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.71	
		For Work In Restricted Working Space, Add	9.43	
		For Silver Solder Instead Of 95/5 Solder, Add	7.07	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0635	EA		3" Diameter, Copper Cap.....	107.81	26.56
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.40	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.03	
			For Work In Restricted Working Space, Add	12.07	
			For Silver Solder Instead Of 95/5 Solder, Add	9.41	
22 11 16 00-0636	EA		4" Diameter, Copper Cap.....	188.41	40.16
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.46	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.13	
			For Work In Restricted Working Space, Add	18.26	
			For Silver Solder Instead Of 95/5 Solder, Add	15.51	
22 11 16 00-0637	EA		5" Diameter, Cast Bronze Cap.....	990.39	61.85
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-54.21	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.06	
			For Work In Restricted Working Space, Add	28.11	
			For Silver Solder Instead Of 95/5 Solder, Add	58.89	
22 11 16 00-0638	EA		6" Diameter, Cast Bronze Cap.....	1,922.86	90.04
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-102.96	
			For Brazed Fittings Instead Of 95/5 Solder, Add	20.45	
			For Work In Restricted Working Space, Add	40.91	
			For Silver Solder Instead Of 95/5 Solder, Add	109.78	
22 11 16 00-0639	EA		8" Diameter, Cast Bronze Cap.....	2,449.16	119.97
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-131.55	
			For Brazed Fittings Instead Of 95/5 Solder, Add	27.27	
			For Work In Restricted Working Space, Add	54.55	
			For Silver Solder Instead Of 95/5 Solder, Add	140.64	
22 11 16 00-0640 Copper Crosses (22 11 16 00-0458)					
22 11 16 00-0641	EA		1/2" Diameter, Copper Cross.....	95.87	54.87
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.35	
			For Work In Restricted Working Space, Add	24.69	
			For Silver Solder Instead Of 95/5 Solder, Add	13.02	
22 11 16 00-0642	EA		3/4" Diameter, Copper Cross.....	128.62	68.21
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.54	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.34	
			For Work In Restricted Working Space, Add	30.68	
			For Silver Solder Instead Of 95/5 Solder, Add	16.66	
22 11 16 00-0643	EA		1" Diameter, Copper Cross.....	167.00	81.43
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.46	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.33	
			For Work In Restricted Working Space, Add	36.66	
			For Silver Solder Instead Of 95/5 Solder, Add	20.57	
22 11 16 00-0644	EA		1-1/4" Diameter, Copper Cross.....	196.56	88.17
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.44	
			For Brazed Fittings Instead Of 95/5 Solder, Add	19.83	
			For Work In Restricted Working Space, Add	39.65	
			For Silver Solder Instead Of 95/5 Solder, Add	23.05	
22 11 16 00-0645	EA		1-1/2" Diameter, Copper Cross.....	236.42	96.39
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.05	
			For Brazed Fittings Instead Of 95/5 Solder, Add	21.70	
			For Work In Restricted Working Space, Add	43.40	
			For Silver Solder Instead Of 95/5 Solder, Add	26.29	
22 11 16 00-0646	EA		2" Diameter, Copper Cross.....	335.46	108.12
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-24.88	
			For Brazed Fittings Instead Of 95/5 Solder, Add	24.32	
			For Work In Restricted Working Space, Add	48.63	
			For Silver Solder Instead Of 95/5 Solder, Add	32.98	
22 11 16 00-0647	EA		2-1/2" Diameter, Copper Cross.....	579.16	119.71
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-37.94	
			For Brazed Fittings Instead Of 95/5 Solder, Add	26.94	
			For Work In Restricted Working Space, Add	53.87	
			For Silver Solder Instead Of 95/5 Solder, Add	46.92	
22 11 16 00-0648 Cast Bronze Crosses (22 11 16 00-0458)					
22 11 16 00-0649	EA		3/8" Diameter, Cast Bronze Cross.....	77.94	39.90
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.89	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.98	
			For Work In Restricted Working Space, Add	17.96	
			For Silver Solder Instead Of 95/5 Solder, Add	9.88	
22 11 16 00-0650	EA		1/2" Diameter, Cast Bronze Cross.....	98.58	54.87
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.04	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.35	
			For Work In Restricted Working Space, Add	24.69	
			For Silver Solder Instead Of 95/5 Solder, Add	13.16	
22 11 16 00-0651	EA		3/4" Diameter, Cast Bronze Cross.....	133.89	68.21
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.81	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.34	
			For Work In Restricted Working Space, Add	30.68	
			For Silver Solder Instead Of 95/5 Solder, Add	16.92	
22 11 16 00-0652	EA		1" Diameter, Cast Bronze Cross.....	175.95	81.43
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.33	
			For Work In Restricted Working Space, Add	36.66	
			For Silver Solder Instead Of 95/5 Solder, Add	21.02	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0653	EA	1-1/4" Diameter, Cast Bronze Cross.....	209.43	88.17	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.08		
		For Brazed Fittings Instead Of 95/5 Solder, Add	19.83		
		For Work In Restricted Working Space, Add	39.65		
		For Silver Solder Instead Of 95/5 Solder, Add	23.69		
22 11 16 00-0654	EA	1-1/2" Diameter, Cast Bronze Cross.....	254.77	96.39	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.97		
		For Brazed Fittings Instead Of 95/5 Solder, Add	21.70		
		For Work In Restricted Working Space, Add	43.40		
		For Silver Solder Instead Of 95/5 Solder, Add	27.20		
22 11 16 00-0655	EA	2" Diameter, Cast Bronze Cross.....	402.81	108.12	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-28.25		
		For Brazed Fittings Instead Of 95/5 Solder, Add	24.32		
		For Work In Restricted Working Space, Add	48.63		
		For Silver Solder Instead Of 95/5 Solder, Add	36.35		
22 11 16 00-0656	EA	2-1/2" Diameter, Cast Bronze Cross.....	659.08	119.71	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-41.93		
		For Brazed Fittings Instead Of 95/5 Solder, Add	26.94		
		For Work In Restricted Working Space, Add	53.87		
		For Silver Solder Instead Of 95/5 Solder, Add	50.91		
22 11 16 00-0657		Flexible Corrugated Copper Supply Line (22 11 16 00-0458)			
22 11 16 00-0658	EA	3/4" Diameter Threaded x 3/4" Diameter Solder x 18" Long, Flexible Corrugated Copper Supply Line	99.98	37.11	
22 11 16 00-0659	EA	3/4" Diameter Threaded x 3/4" Diameter Solder x 24" Long, Flexible Corrugated Copper Supply Line	105.33	37.11	
22 11 16 00-0660	EA	3/4" Diameter Threaded x 3/4" Diameter Threaded x 12" Long, Flexible Corrugated Copper Supply Line	90.36	37.11	
22 11 16 00-0661	EA	3/4" Diameter Threaded x 3/4" Diameter Threaded x 15" Long, Flexible Corrugated Copper Supply Line	96.42	37.11	
22 11 16 00-0662	EA	3/4" Diameter Threaded x 3/4" Diameter Threaded x 18" Long, Flexible Corrugated Copper Supply Line	101.77	37.11	
22 11 16 00-0663	EA	3/4" Diameter Threaded x 3/4" Diameter Threaded x 24" Long, Flexible Corrugated Copper Supply Line	105.33	37.11	
22 11 16 00-0664		Crimped Copper Fittings (22 11 16 00-0390)			
		Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.			
22 11 16 00-0665		Crimped Copper 90 Degree Elbows (22 11 16 00-0664)			
22 11 16 00-0666	EA	1/2" Diameter, Crimped Copper 90 Degree Elbow	27.79	16.25	
		For Work In Restricted Working Space, Add	7.31		
22 11 16 00-0667	EA	3/4" Diameter, Crimped Copper 90 Degree Elbow	33.56	18.55	
		For Work In Restricted Working Space, Add	8.33		
22 11 16 00-0668	EA	1" Diameter, Crimped Copper 90 Degree Elbow	44.77	22.07	
		For Work In Restricted Working Space, Add	9.95		
22 11 16 00-0669	EA	1-1/4" Diameter, Crimped Copper 90 Degree Elbow	59.99	24.37	
		For Work In Restricted Working Space, Add	10.97		
22 11 16 00-0670	EA	1-1/2" Diameter, Crimped Copper 90 Degree Elbow	85.00	27.08	
		For Work In Restricted Working Space, Add	12.19		
22 11 16 00-0671	EA	2" Diameter, Crimped Copper 90 Degree Elbow	110.41	32.50	
		For Work In Restricted Working Space, Add	14.63		
22 11 16 00-0672	EA	2-1/2" Diameter, Crimped Copper 90 Degree Elbow	235.98	37.91	
		For Work In Restricted Working Space, Add	17.06		
22 11 16 00-0673	EA	3" Diameter, Crimped Copper 90 Degree Elbow	293.05	45.10	
		For Work In Restricted Working Space, Add	20.31		
22 11 16 00-0674	EA	4" Diameter, Crimped Copper 90 Degree Elbow	368.17	59.58	
		For Work In Restricted Working Space, Add	26.81		
22 11 16 00-0675		Crimped Copper 45 Degree Elbows (22 11 16 00-0664)			
22 11 16 00-0676	EA	1/2" Diameter, Crimped Copper 45 Degree Elbow	28.35	16.25	
		For Work In Restricted Working Space, Add	7.31		
22 11 16 00-0677	EA	3/4" Diameter, Crimped Copper 45 Degree Elbow	32.65	18.55	
		For Work In Restricted Working Space, Add	8.33		
22 11 16 00-0678	EA	1" Diameter, Crimped Copper 45 Degree Elbow	48.88	22.07	
		For Work In Restricted Working Space, Add	9.95		
22 11 16 00-0679	EA	1-1/4" Diameter, Crimped Copper 45 Degree Elbow	59.09	24.37	
		For Work In Restricted Working Space, Add	10.97		
22 11 16 00-0680	EA	1-1/2" Diameter, Crimped Copper 45 Degree Elbow	77.15	27.08	
		For Work In Restricted Working Space, Add	12.19		
22 11 16 00-0681	EA	2" Diameter, Crimped Copper 45 Degree Elbow	99.83	32.50	
		For Work In Restricted Working Space, Add	14.63		
22 11 16 00-0682	EA	2-1/2" Diameter, Crimped Copper 45 Degree Elbow	175.19	37.91	
		For Work In Restricted Working Space, Add	17.06		
22 11 16 00-0683	EA	3" Diameter, Crimped Copper 45 Degree Elbow	236.74	45.10	
		For Work In Restricted Working Space, Add	20.31		
22 11 16 00-0684	EA	4" Diameter, Crimped Copper 45 Degree Elbow	324.13	59.58	
		For Work In Restricted Working Space, Add	26.81		
22 11 16 00-0685		Crimped Copper Straight Tees (22 11 16 00-0664)			
22 11 16 00-0686	EA	1/2" Diameter, Crimped Copper Straight Tee	41.79	24.37	
		For Work In Restricted Working Space, Add	10.97		
22 11 16 00-0687	EA	3/4" Diameter, Crimped Copper Straight Tee	57.28	32.09	
		For Work In Restricted Working Space, Add	14.42		
22 11 16 00-0688	EA	1" Diameter, Crimped Copper Straight Tee	70.10	35.61	
		For Work In Restricted Working Space, Add	16.05		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0689	EA	1-1/4" Diameter, Crimped Copper Straight Tee..... <i>For Work In Restricted Working Space, Add</i>	82.94 16.45	36.56
22 11 16 00-0690	EA	1-1/2" Diameter, Crimped Copper Straight Tee..... <i>For Work In Restricted Working Space, Add</i>	116.90 18.69	41.57
22 11 16 00-0691	EA	2" Diameter, Crimped Copper Straight Tee..... <i>For Work In Restricted Working Space, Add</i>	140.58 21.94	48.75
22 11 16 00-0692	EA	2-1/2" Diameter, Crimped Copper Straight Tee..... <i>For Work In Restricted Working Space, Add</i>	306.61 25.59	56.87
22 11 16 00-0693	EA	3" Diameter, Crimped Copper Straight Tee..... <i>For Work In Restricted Working Space, Add</i>	378.16 30.47	67.70
22 11 16 00-0694	EA	4" Diameter, Crimped Copper Straight Tee..... <i>For Work In Restricted Working Space, Add</i>	522.19 40.22	89.37
22 11 16 00-0695 Crimped Copper Reducing Tees (22 11 16 00-0664)				
22 11 16 00-0696	EA	3/4" Diameter, Crimped Copper Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	49.02 10.44	23.15
22 11 16 00-0697	EA	1" Diameter, Crimped Copper Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	70.89 13.69	30.47
22 11 16 00-0698	EA	1-1/4" Diameter, Crimped Copper Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	76.49 15.23	33.86
22 11 16 00-0699	EA	1-1/2" Diameter, Crimped Copper Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	100.60 15.64	34.80
22 11 16 00-0700	EA	2" Diameter, Crimped Copper Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	120.49 17.75	39.41
22 11 16 00-0701	EA	2-1/2" Diameter, Crimped Copper Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	327.66 20.31	44.68
22 11 16 00-0702	EA	3" Diameter, Crimped Copper Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	399.48 24.37	54.17
22 11 16 00-0703	EA	4" Diameter, Crimped Copper Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	470.39 32.50	72.17
22 11 16 00-0704 Crimped Copper Couplings (22 11 16 00-0664)				
22 11 16 00-0705	EA	1/2" Diameter, Crimped Copper Coupling..... <i>For Work In Restricted Working Space, Add</i>	27.45 7.31	16.25
22 11 16 00-0706	EA	3/4" Diameter, Crimped Copper Coupling..... <i>For Work In Restricted Working Space, Add</i>	32.43 8.33	18.55
22 11 16 00-0707	EA	1" Diameter, Crimped Copper Coupling..... <i>For Work In Restricted Working Space, Add</i>	42.61 9.95	22.07
22 11 16 00-0708	EA	1-1/4" Diameter, Crimped Copper Coupling..... <i>For Work In Restricted Working Space, Add</i>	48.28 10.97	24.37
22 11 16 00-0709	EA	1-1/2" Diameter, Crimped Copper Coupling..... <i>For Work In Restricted Working Space, Add</i>	62.47 12.19	27.08
22 11 16 00-0710	EA	2" Diameter, Crimped Copper Coupling..... <i>For Work In Restricted Working Space, Add</i>	76.63 14.63	32.50
22 11 16 00-0711	EA	2-1/2" Diameter, Crimped Copper Coupling..... <i>For Work In Restricted Working Space, Add</i>	146.08 17.06	37.91
22 11 16 00-0712	EA	3" Diameter, Crimped Copper Coupling..... <i>For Work In Restricted Working Space, Add</i>	181.31 20.31	45.10
22 11 16 00-0713	EA	4" Diameter, Crimped Copper Coupling..... <i>For Work In Restricted Working Space, Add</i>	247.12 26.81	59.58
22 11 16 00-0714 Crimped Copper Reducing Couplings (22 11 16 00-0664)				
22 11 16 00-0715	EA	3/4" Diameter, Crimped Copper Reducing Coupling..... <i>For Work In Restricted Working Space, Add</i>	37.15 6.95	15.44
22 11 16 00-0716	EA	1" Diameter, Crimped Copper Reducing Coupling..... <i>For Work In Restricted Working Space, Add</i>	42.45 7.92	17.60
22 11 16 00-0717	EA	1-1/4" Diameter, Crimped Copper Reducing Coupling..... <i>For Work In Restricted Working Space, Add</i>	54.88 9.47	20.98
22 11 16 00-0718	EA	1-1/2" Diameter, Crimped Copper Reducing Coupling..... <i>For Work In Restricted Working Space, Add</i>	69.15 10.44	23.15
22 11 16 00-0719	EA	2" Diameter, Crimped Copper Reducing Coupling..... <i>For Work In Restricted Working Space, Add</i>	77.27 11.58	25.73
22 11 16 00-0720	EA	2-1/2" Diameter, Crimped Copper FTG x C Reducing Coupling..... <i>For Work In Restricted Working Space, Add</i>	151.41 13.81	30.74
22 11 16 00-0721	EA	3" Diameter, Crimped Copper FTG x C Reducing Coupling..... <i>For Work In Restricted Working Space, Add</i>	188.58 16.25	36.16
22 11 16 00-0722	EA	4" Diameter, Crimped Copper FTG x C Reducing Coupling..... <i>For Work In Restricted Working Space, Add</i>	245.19 21.53	47.80
22 11 16 00-0723 Crimped Copper Male Adapters (22 11 16 00-0664)				
22 11 16 00-0724	EA	1/2" Diameter, Crimped Copper Male Adapter..... <i>For Work In Restricted Working Space, Add</i>	28.13 7.31	16.25
22 11 16 00-0725	EA	3/4" Diameter, Crimped Copper Male Adapter..... <i>For Work In Restricted Working Space, Add</i>	34.58 8.33	18.55
22 11 16 00-0726	EA	1" Diameter, Crimped Copper Male Adapter..... <i>For Work In Restricted Working Space, Add</i>	45.68 9.95	22.07
22 11 16 00-0727	EA	1-1/4" Diameter, Crimped Copper Male Adapter..... <i>For Work In Restricted Working Space, Add</i>	63.97 10.97	24.37



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0728 EA 1-1/2" Diameter, Crimped Copper Male Adapter For Work In Restricted Working Space, Add	79.08 12.19	27.08
22 11 16 00-0729 EA 2" Diameter, Crimped Copper Male Adapter For Work In Restricted Working Space, Add	122.81 14.63	32.50
22 11 16 00-0730 EA 2-1/2" Diameter, Crimped Copper Male Adapter For Work In Restricted Working Space, Add	235.98 17.06	37.91
22 11 16 00-0731 EA 3" Diameter, Crimped Copper Male Adapter For Work In Restricted Working Space, Add	293.05 20.31	45.10
22 11 16 00-0732 EA 4" Diameter, Crimped Copper Male Adapter For Work In Restricted Working Space, Add	350.22 26.81	59.58
22 11 16 00-0733 Crimped Copper Female Adapters (22 11 16 00-0664)		
22 11 16 00-0734 EA 1/2" Diameter, Crimped Copper Female Adapter For Work In Restricted Working Space, Add	28.92 7.31	16.25
22 11 16 00-0735 EA 3/4" Diameter, Crimped Copper Female Adapter For Work In Restricted Working Space, Add	35.16 8.33	18.55
22 11 16 00-0736 EA 1" Diameter, Crimped Copper Female Adapter For Work In Restricted Working Space, Add	46.83 9.95	22.07
22 11 16 00-0737 EA 1-1/4" Diameter, Crimped Copper Female Adapter For Work In Restricted Working Space, Add	67.39 10.97	24.37
22 11 16 00-0738 EA 1-1/2" Diameter, Crimped Copper Female Adapter For Work In Restricted Working Space, Add	85.46 12.19	27.08
22 11 16 00-0739 EA 2" Diameter, Crimped Copper Female Adapter For Work In Restricted Working Space, Add	124.86 14.63	32.50
22 11 16 00-0740 Crimped Copper Caps (22 11 16 00-0664)		
22 11 16 00-0741 EA 1/2" Diameter, Crimped Copper Cap For Work In Restricted Working Space, Add	18.79 3.66	8.12
22 11 16 00-0742 EA 3/4" Diameter, Crimped Copper Cap For Work In Restricted Working Space, Add	25.35 4.26	9.48
22 11 16 00-0743 EA 1" Diameter, Crimped Copper Cap For Work In Restricted Working Space, Add	33.43 4.88	10.84
22 11 16 00-0744 EA 1-1/4" Diameter, Crimped Copper Cap For Work In Restricted Working Space, Add	37.73 5.48	12.19
22 11 16 00-0745 EA 1-1/2" Diameter, Crimped Copper Cap For Work In Restricted Working Space, Add	51.13 6.29	13.94
22 11 16 00-0746 EA 2" Diameter, Crimped Copper Cap For Work In Restricted Working Space, Add	61.00 7.31	16.25
22 11 16 00-0747 EA 2-1/2" Diameter, Crimped Copper Cap For Work In Restricted Working Space, Add	145.56 8.53	18.96
22 11 16 00-0748 EA 3" Diameter, Crimped Copper Cap For Work In Restricted Working Space, Add	182.08 10.16	22.61
22 11 16 00-0749 EA 4" Diameter, Crimped Copper Cap For Work In Restricted Working Space, Add	242.20 13.40	29.79
22 11 16 00-0750 C x F NPT Crimped Bronze Unions (22 11 16 00-0664)		
22 11 16 00-0751 EA 1/2" Diameter, C x F NPT Crimped Bronze Union For Work In Restricted Working Space, Add	52.52 9.95	22.07
22 11 16 00-0752 EA 3/4" Diameter, C x F NPT Crimped Bronze Union For Work In Restricted Working Space, Add	65.56 12.23	27.22
22 11 16 00-0753 EA 1" Diameter, C x F NPT Crimped Bronze Union For Work In Restricted Working Space, Add	90.07 14.66	32.64
22 11 16 00-0754 EA 1-1/4" Diameter, C x F NPT Crimped Bronze Union For Work In Restricted Working Space, Add	108.71 16.98	37.64
22 11 16 00-0755 EA 1-1/2" Diameter, C x F NPT Crimped Bronze Union For Work In Restricted Working Space, Add	137.16 16.57	36.83
22 11 16 00-0756 EA 2" Diameter, C x F NPT Crimped Bronze Union For Work In Restricted Working Space, Add	188.42 23.97	53.35
22 11 16 00-0757 C x C Crimped Bronze Unions (22 11 16 00-0664)		
22 11 16 00-0758 EA 1/2" Diameter, C x C Bronze Crimped Union For Work In Restricted Working Space, Add	48.49 7.31	16.25
22 11 16 00-0759 EA 3/4" Diameter, C x C Bronze Crimped Union For Work In Restricted Working Space, Add	59.38 8.33	18.55
22 11 16 00-0760 EA 1" Diameter, C x C Bronze Crimped Union For Work In Restricted Working Space, Add	83.68 9.95	22.07
22 11 16 00-0761 EA 1-1/4" Diameter, C x C Bronze Crimped Union For Work In Restricted Working Space, Add	108.69 10.97	24.37
22 11 16 00-0762 EA 1-1/2" Diameter, C x C Bronze Crimped Union For Work In Restricted Working Space, Add	138.58 12.19	27.08
22 11 16 00-0763 EA 2" Diameter, C x C Bronze Crimped Union For Work In Restricted Working Space, Add	208.71 14.63	32.50
22 11 16 00-0764 C x Flange Crimped Bronze Flange (22 11 16 00-0664)		
22 11 16 00-0765 EA 2-1/2" Diameter, C x Flange Crimped Bronze Flange For Work In Restricted Working Space, Add	399.36 17.06	37.91
22 11 16 00-0766 EA 3" Diameter, C x Flange Crimped Bronze Flange For Work In Restricted Working Space, Add	436.33 20.31	45.10

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0767 EA 4" Diameter, C x Flange Crimped Bronze Flange <i>For Work In Restricted Working Space, Add</i>	502.04 26.81	59.58
22 11 16 00-0768 Field Installed FKM Seals (22 11 16 00-0664) Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
22 11 16 00-0769 EA 1/2" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	8.02 1.83	
22 11 16 00-0770 EA 3/4" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	10.07 2.13	
22 11 16 00-0771 EA 1" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	11.54 2.44	
22 11 16 00-0772 EA 1-1/4" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	13.24 2.74	
22 11 16 00-0773 EA 1-1/2" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	18.23 3.15	
22 11 16 00-0774 EA 2" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	20.38 3.66	
22 11 16 00-0775 EA 2-1/2" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	29.80 4.26	
22 11 16 00-0776 EA 3" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	34.33 5.08	
22 11 16 00-0777 EA 4" Diameter, Field Installed FKM Seal Note: To be used in conjunction with fittings. <i>For Work In Restricted Working Space, Add</i>	46.69 6.71	
22 11 16 00-0778 Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0390)		
22 11 16 00-0779 EA Up To 1/2" Diameter, Cut And Prepare Existing In Place Copper Pipe	13.54	
22 11 16 00-0780 EA 3/4" Diameter, Cut And Prepare Existing In Place Copper Pipe	14.63	
22 11 16 00-0781 EA 1" Diameter, Cut And Prepare Existing In Place Copper Pipe	16.45	
22 11 16 00-0782 EA 1-1/4" Diameter, Cut And Prepare Existing In Place Copper Pipe	17.26	
22 11 16 00-0783 EA 1-1/2" Diameter, Cut And Prepare Existing In Place Copper Pipe	18.28	
22 11 16 00-0784 EA 2" Diameter, Cut And Prepare Existing In Place Copper Pipe	20.12	
22 11 16 00-0785 EA 2-1/2" Diameter, Cut And Prepare Existing In Place Copper Pipe	21.67	
22 11 16 00-0786 EA 3" Diameter, Cut And Prepare Existing In Place Copper Pipe	25.59	
22 11 16 00-0787 EA 4" Diameter, Cut And Prepare Existing In Place Copper Pipe	34.53	
22 11 16 00-0788 EA 6" Diameter, Cut And Prepare Existing In Place Copper Pipe	49.34	
22 11 16 00-0789 EA 8" Diameter, Cut And Prepare Existing In Place Copper Pipe	65.81	
22 11 16 00-0790 Sweat Brass Companion Flanges (22 11 16 00-0390) Note: Excludes bolt and gasket sets		
22 11 16 00-0791 EA 1" Diameter, Sweat Brass Companion Flange	68.60	20.83
22 11 16 00-0792 EA 1-1/4" Diameter, Sweat Brass Companion Flange	74.94	22.95
22 11 16 00-0793 EA 1-1/2" Diameter, Sweat Brass Companion Flange	105.17	24.94
22 11 16 00-0794 EA 2" Diameter, Sweat Brass Companion Flange	139.29	27.68
22 11 16 00-0795 EA 2-1/2" Diameter, Sweat Brass Companion Flange	195.41	33.29
22 11 16 00-0796 EA 3" Diameter, Sweat Brass Companion Flange	216.07	43.65
22 11 16 00-0797 EA 4" Diameter, Sweat Brass Companion Flange	288.10	52.00
22 11 16 00-0798 EA 5" Diameter, Sweat Brass Companion Flange	539.10	60.88
22 11 16 00-0799 EA 6" Diameter, Sweat Brass Companion Flange	623.36	88.47
22 11 16 00-0800 EA 8" Diameter, Copper Companion Flange	1,430.30	126.19
22 11 16 00-0801 Brass Compression Fittings (22 11 16 00-0390)		
22 11 16 00-0802 Brass Compression Unions (22 11 16 00-0801)		
22 11 16 00-0803 EA 1/4" Diameter, Brass Compression Union	23.15	14.63
22 11 16 00-0804 EA 3/8" Diameter, Brass Compression Union	23.48	14.63
22 11 16 00-0805 EA 1/2" Diameter, Brass Compression Union	24.49	14.63
22 11 16 00-0806 EA 5/8" Diameter, Brass Compression Union	24.97	14.63
22 11 16 00-0807 EA 3/4" Diameter, Brass Compression Union	33.81	14.63
22 11 16 00-0808 EA 3/8" x 1/4" Diameter, Brass Compression Union	23.71	14.63
22 11 16 00-0809 EA 1/2" x 3/8" Diameter, Brass Compression Union	24.57	14.63
22 11 16 00-0810 EA 5/8" x 3/8" Diameter, Brass Compression Union	25.17	14.63
22 11 16 00-0811 EA 5/8" x 1/2" Diameter, Brass Compression Union	26.13	14.63
22 11 16 00-0812 Brass Compression Union Elbows (22 11 16 00-0801)		
22 11 16 00-0813 EA 1/4" Diameter, Brass Compression Union Elbow	24.49	14.63
22 11 16 00-0814 EA 3/8" Diameter, Brass Compression Union Elbow	25.04	14.63
22 11 16 00-0815 EA 1/2" Diameter, Brass Compression Union Elbow	26.24	14.63



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0816	EA	5/8" Diameter, Brass Compression Union Elbow.....	28.10	14.63
22 11 16 00-0817	EA	3/4" Diameter, Brass Compression Union Elbow.....	35.37	14.63
22 11 16 00-0818	EA	3/8" x 1/4" Diameter, Brass Compression Union Elbow.....	25.04	14.63
22 11 16 00-0819	EA	1/2" x 3/8" Diameter, Brass Compression Union Elbow.....	26.24	14.63
22 11 16 00-0820	EA	5/8" x 3/8" Diameter, Brass Compression Union Elbow.....	26.57	14.63
22 11 16 00-0821	EA	5/8" x 1/2" Diameter, Brass Compression Union Elbow.....	32.03	14.63
22 11 16 00-0822 Brass Compression Union Tees (22 11 16 00-0801)				
22 11 16 00-0823	EA	1/4" Diameter, Brass Compression Union Tee.....	24.91	14.63
22 11 16 00-0824	EA	3/8" Diameter, Brass Compression Union Tee.....	26.04	14.63
22 11 16 00-0825	EA	1/2" Diameter, Brass Compression Union Tee.....	27.24	14.63
22 11 16 00-0826	EA	5/8" Diameter, Brass Compression Union Tee.....	31.04	14.63
22 11 16 00-0827	EA	3/4" Diameter, Brass Compression Union Tee.....	44.16	14.63
22 11 16 00-0828	EA	3/8" x 3/8" x 1/4" Diameter, Brass Compression Union Tee.....	26.84	14.63
22 11 16 00-0829	EA	1/2" x 1/2" x 3/8" Diameter, Brass Compression Union Tee.....	33.00	14.63
22 11 16 00-0830	EA	5/8" x 5/8" x 3/8" Diameter, Brass Compression Union Tee.....	32.41	14.63
22 11 16 00-0831	EA	5/8" x 5/8" x 1/2" Diameter, Brass Compression Union Tee.....	33.10	14.63
22 11 16 00-0832 Brass Compression Male Connectors (22 11 16 00-0801)				
22 11 16 00-0833	EA	1/4" Diameter, Brass Compression Male Connector.....	22.91	14.63
22 11 16 00-0834	EA	3/8" Diameter, Brass Compression Male Connector.....	23.35	14.63
22 11 16 00-0835	EA	1/2" Diameter, Brass Compression Male Connector.....	24.11	14.63
22 11 16 00-0836	EA	5/8" Diameter, Brass Compression Male Connector.....	25.24	14.63
22 11 16 00-0837	EA	3/4" Diameter, Brass Compression Male Connector.....	30.24	14.49
22 11 16 00-0838 Brass Compression Female Connectors (22 11 16 00-0801)				
22 11 16 00-0839	EA	1/4" Diameter, Brass Compression Female Connector.....	23.39	14.63
22 11 16 00-0840	EA	3/8" Diameter, Brass Compression Female Connector.....	23.96	14.63
22 11 16 00-0841	EA	1/2" Diameter, Brass Compression Female Connector.....	24.92	14.63
22 11 16 00-0842	EA	5/8" Diameter, Brass Compression Female Connector.....	25.55	14.63
22 11 16 00-0843	EA	3/4" Diameter, Brass Compression Female Connector.....	38.55	14.36
22 11 16 00-0844 Dielectric Fittings (22 11 16 00-0390)				
22 11 16 00-0845 Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0844)				
22 11 16 00-0846	EA	1/2" Diameter, Copper x Female Iron Pipe Thread Dielectric Union.....	56.40	32.50
22 11 16 00-0847	EA	3/4" Diameter, Copper x Female Iron Pipe Thread Dielectric Union.....	63.17	37.11
22 11 16 00-0848	EA	1" Diameter, Copper x Female Iron Pipe Thread Dielectric Union.....	74.40	40.77
22 11 16 00-0849	EA	1-1/4" Diameter, Copper x Female Iron Pipe Thread Dielectric Union.....	89.14	44.89
22 11 16 00-0850	EA	1-1/2" Diameter, Copper x Female Iron Pipe Thread Dielectric Union.....	106.78	49.88
22 11 16 00-0851	EA	2" Diameter, Copper x Female Iron Pipe Thread Dielectric Union.....	134.82	59.85
22 11 16 00-0852 Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0844)				
22 11 16 00-0853	EA	1/2" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union.....	61.22	32.50
22 11 16 00-0854	EA	3/4" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union.....	71.12	37.11
22 11 16 00-0855	EA	1" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union.....	84.89	40.77
22 11 16 00-0856	EA	1-1/4" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union.....	103.05	44.89
22 11 16 00-0857	EA	1-1/2" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union.....	123.99	49.88
22 11 16 00-0858	EA	2" Diameter, Female Brass Thread x Iron Pipe Thread Dielectric Union.....	155.01	59.85
22 11 16 00-0859 Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0844)				
22 11 16 00-0860	EA	1/2" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	58.16	32.50
22 11 16 00-0861	EA	3/4" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	66.07	37.11
22 11 16 00-0862	EA	1" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	75.17	40.77
22 11 16 00-0863	EA	1-1/4" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	86.45	44.89
22 11 16 00-0864	EA	1-1/2" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	104.11	49.88
22 11 16 00-0865	EA	2" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	132.68	59.85
22 11 16 00-0866 Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0844)				
22 11 16 00-0867	EA	2-1/2" Diameter, Copper x Female Iron Pipe Thread Dielectric Flange.....	330.08	153.88
22 11 16 00-0868	EA	3" Diameter, Copper x Female Iron Pipe Thread Dielectric Flange.....	413.49	193.79
22 11 16 00-0869	EA	4" Diameter, Copper x Female Iron Pipe Thread Dielectric Flange.....	580.80	263.75
22 11 16 00-0870 Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0844)				
22 11 16 00-0871	EA	2-1/2" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	332.07	153.88
22 11 16 00-0872	EA	3" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	429.32	193.79
22 11 16 00-0873	EA	4" Diameter, Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	763.46	263.75
22 11 16 00-0874 Brass Push-Fit Fittings (22 11 16)				

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0875	EA	1/4" x 1/4" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	28.93	13.54
22 11 16 00-0876	EA	3/8" x 3/8" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	35.85	14.45
22 11 16 00-0877	EA	1/2" x 1/2" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	37.19	16.25
22 11 16 00-0878	EA	5/8" x 5/8" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	42.77	17.33
22 11 16 00-0879	EA	3/4" x 3/4" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	43.62	18.51
22 11 16 00-0880	EA	1" x 1" Diameter, Brass Push-Fit Coupling Note: (Sharkbite)	61.20	22.11
22 11 16 00-0881	EA	1/2" x 3/8" Diameter, Brass Push-Fit Reducing Coupling Note: (Sharkbite)	36.52	15.34
22 11 16 00-0882	EA	3/4" x 5/8" Diameter, Brass Push-Fit Reducing Coupling Note: (Sharkbite)	42.25	16.79
22 11 16 00-0883	EA	1" x 3/4" Diameter, Brass Push-Fit Reducing Coupling Note: (Sharkbite)	62.81	20.31
22 11 16 00-0884	EA	1/4" x 1/4" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	30.18	13.54
22 11 16 00-0885	EA	3/8" x 3/8" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	41.16	14.45
22 11 16 00-0886	EA	1/2" x 1/2" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	37.87	16.25
22 11 16 00-0887	EA	5/8" x 5/8" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	45.86	17.33
22 11 16 00-0888	EA	3/4" x 3/4" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	42.74	18.51
22 11 16 00-0889	EA	1" x 1" Diameter, Brass Push-Fit Elbow Note: (Sharkbite)	61.88	22.11
22 11 16 00-0890	EA	1/2" x 3/8" Diameter, Brass Push-Fit Reducing Elbow Note: (Sharkbite)	35.96	15.34
22 11 16 00-0891	EA	3/4" x 1/2" Diameter, Brass Push-Fit Reducing Elbow Note: (Sharkbite)	40.04	16.79
22 11 16 00-0892	EA	1" x 3/4" Diameter, Brass Push-Fit Reducing Elbow Note: (Sharkbite)	78.01	20.31
22 11 16 00-0893	EA	1/4" x 1/4" x 1/4" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	45.79	20.31
22 11 16 00-0894	EA	3/8" x 3/8" x 3/8" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	57.87	21.67
22 11 16 00-0895	EA	1/2" x 1/2" x 1/2" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	53.13	24.37
22 11 16 00-0896	EA	5/8" x 5/8" x 5/8" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	67.48	26.00
22 11 16 00-0897	EA	3/4" x 3/4" x 3/4" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	61.95	27.76
22 11 16 00-0898	EA	1" x 1" x 1" Diameter, Brass Push-Fit Tee Note: (Sharkbite)	84.56	33.17
22 11 16 00-0899	EA	1/2" x 1/2" x 1/4" Diameter, Brass Push-Fit Reducing Tee Note: (Sharkbite)	59.49	23.02
22 11 16 00-0900	EA	1/2" x 1/2" x 3/8" Diameter, Brass Push-Fit Reducing Tee Note: (Sharkbite)	59.83	23.47
22 11 16 00-0901	EA	3/4" x 3/4" x 1/2" Diameter, Brass Push-Fit Reducing Tee Note: (Sharkbite)	59.80	26.63
22 11 16 00-0902	EA	1" x 1" x 3/4" Diameter, Brass Push-Fit Reducing Tee Note: (Sharkbite)	82.00	31.38
22 11 16 00-0903	EA	1/4" x 1/2" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	34.42	14.89
22 11 16 00-0904	EA	3/8" x 1/2" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	34.03	15.34
22 11 16 00-0905	EA	1/2" x 1/2" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	33.65	16.25
22 11 16 00-0906	EA	3/4" x 3/4" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	38.54	18.51
22 11 16 00-0907	EA	1" x 1" Diameter, Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	54.05	22.11
22 11 16 00-0908	EA	1/4" x 1/2" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	30.16	14.89
22 11 16 00-0909	EA	3/8" x 1/2" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	34.03	15.34
22 11 16 00-0910	EA	1/2" x 1/2" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	33.74	16.25
22 11 16 00-0911	EA	3/4" x 3/4" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	38.15	18.51
22 11 16 00-0912	EA	5/8" x 3/4" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	41.40	17.92
22 11 16 00-0913	EA	1" x 3/4" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	49.65	20.31
22 11 16 00-0914	EA	1" x 1" Diameter, Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	54.84	22.11
22 11 16 00-0915	EA	1/2" Diameter, Brass Push-Fit Ball Valve Note: (Sharkbite)	48.40	16.25
22 11 16 00-0916	EA	3/4" Diameter, Brass Push-Fit Ball Valve Note: (Sharkbite)	56.58	18.51



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0917	EA		1" Diameter, Brass Push-Fit Ball Valve..... Note: (Sharkbite)	74.68	22.11
22 11 16 00-0918	EA		1/2" Diameter, Brass Push-Fit Check Valve Note: (Sharkbite)	51.83	16.25
22 11 16 00-0919	EA		3/4" Diameter, Brass Push-Fit Check Valve Note: (Sharkbite)	62.37	18.51
22 11 16 00-0920	EA		1" Diameter, Brass Push-Fit Check Valve Note: (Sharkbite)	104.77	22.11
22 11 16 00-0921			Copper Pipe With Fittings And Hangers Assemblies (22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0922	LF		1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.15 1.89 -1.56 3.48 0.85 -2.42 6.36	3.79
22 11 16 00-0923	LF		3/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.76 2.31 -1.89 3.99 0.96 -2.79 7.20	4.87
22 11 16 00-0924	LF		1" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	35.45 2.80 -2.24 4.29 1.01 -3.03 7.55	5.82
22 11 16 00-0925	LF		1-1/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	40.44 3.54 -2.76 4.64 1.05 -3.33 7.84 -1.43	6.77
22 11 16 00-0926	LF		1-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	45.43 4.18 -3.22 5.06 1.11 -3.67 8.36 -1.76	7.72
22 11 16 00-0927	LF		2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	58.34 5.86 -4.44 6.12 1.28 -4.52 9.62 -2.63	9.61
22 11 16 00-0928	LF		2-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	73.40 8.18 -6.06 7.11 1.38 -5.39 10.32 -3.90	11.60

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0929	LF	3" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	90.35 10.75 -7.86 8.24 1.49 -6.38 11.18 -5.31	13.47
22 11 16 00-0930	LF	4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	143.35 18.52 -13.35 11.99 1.93 -9.58 14.45 -9.52	17.83
22 11 16 00-0931	LF	5" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	256.69 36.45 -25.85 19.02 2.47 -15.93 18.56 -19.48	22.20
22 11 16 00-0932	LF	6" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	335.89 48.02 -34.02 24.65 3.14 -20.72 23.57 -25.73	26.81
22 11 16 00-0933	LF	8" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	726.47 113.57 -79.37 46.09 3.91 -41.21 29.29 -62.88	32.05
22 11 16 00-0934		Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0935		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0934)		
22 11 16 00-0936		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0935)		
22 11 16 00-0937	LF	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	6.56 1.49	2.00
22 11 16 00-0938	LF	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	7.39 1.57	2.10
22 11 16 00-0939	LF	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	8.78 1.69	2.26
22 11 16 00-0940	LF	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	10.52 1.85	2.45
22 11 16 00-0941	LF	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	12.08 2.04	2.72
22 11 16 00-0942	LF	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	14.90 2.28	3.04
22 11 16 00-0943	LF	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	19.82 2.59	3.45
22 11 16 00-0944	LF	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	25.16 3.07	4.09
22 11 16 00-0945	LF	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	34.48 3.77	5.03
22 11 16 00-0946	LF	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	58.35 4.79	6.38
22 11 16 00-0947	LF	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	83.46 6.29	8.38
22 11 16 00-0948		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0935)		



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22 11 16 00-0949 EA 1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	26.15 7.11	9.48
22 11 16 00-0950 EA 3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	33.75 8.98	11.97
22 11 16 00-0951 EA 1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	43.57 11.26	14.96
22 11 16 00-0952 EA 1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	58.53 14.07	18.71
22 11 16 00-0953 EA 1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	65.02 15.56	20.70
22 11 16 00-0954 EA 2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	75.57 17.36	20.70
22 11 16 00-0955 EA 2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	111.96 19.75	26.31
22 11 16 00-0956 EA 3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	127.93 23.34	31.17
22 11 16 00-0957 EA 4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	179.35 28.73	38.28
22 11 16 00-0958 EA 6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	226.48 36.51	48.64
22 11 16 00-0959 EA 8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	416.03 47.89	63.85
22 11 16 00-0960 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0935)		
22 11 16 00-0961 EA 1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	27.37 7.11	9.48
22 11 16 00-0962 EA 3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	35.22 8.98	11.97
22 11 16 00-0963 EA 1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	45.96 11.26	14.96
22 11 16 00-0964 EA 1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	61.66 14.07	18.71
22 11 16 00-0965 EA 1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	68.84 15.56	20.70
22 11 16 00-0966 EA 2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	76.86 17.36	23.20
22 11 16 00-0967 EA 2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	112.78 19.75	26.31
22 11 16 00-0968 EA 3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	127.82 23.34	31.17
22 11 16 00-0969 EA 4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	164.38 28.73	38.28
22 11 16 00-0970 EA 6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	254.56 36.51	48.64
22 11 16 00-0971 EA 8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	435.92 47.89	63.85
22 11 16 00-0972 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0935)		
22 11 16 00-0973 EA 1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	40.01 10.66	14.21
22 11 16 00-0974 EA 3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	52.02 13.47	17.96
22 11 16 00-0975 EA 1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	65.14 16.91	22.57
22 11 16 00-0976 EA 1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	88.82 21.10	28.18
22 11 16 00-0977 EA 1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	99.00 23.34	31.17
22 11 16 00-0978 EA 2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	118.39 26.04	34.67
22 11 16 00-0979 EA 2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	150.69 29.63	39.53
22 11 16 00-0980 EA 3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	173.21 35.02	46.64
22 11 16 00-0981 EA 4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	210.39 43.10	57.49
22 11 16 00-0982 EA 6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	312.95 54.77	73.08
22 11 16 00-0983 EA 8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	612.72 71.83	95.77
22 11 16 00-0984 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0935)		
22 11 16 00-0985 EA 1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	51.23 14.21	18.96
22 11 16 00-0986 EA 3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	65.99 17.96	23.94
22 11 16 00-0987 EA 1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	82.62 22.52	30.05
22 11 16 00-0988 EA 1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	109.70 28.13	37.53



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22 11 16 00-0989	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	122.00 31.13	41.53
22 11 16 00-0990	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	142.95 34.72	46.26
22 11 16 00-0991	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	176.41 39.51	52.62
22 11 16 00-0992	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	204.28 46.69	62.22
22 11 16 00-0993	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	249.02 57.46	76.57
22 11 16 00-0994	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	355.73 73.03	97.39
22 11 16 00-0995	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	640.77 95.77	127.69
22 11 16 00-0996 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts (22 11 16 00-0935)				
22 11 16 00-0997	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	23.42 6.59	8.73
22 11 16 00-0998	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	32.43 8.87	11.85
22 11 16 00-0999	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	51.75 11.60	15.47
22 11 16 00-1000	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	58.23 12.83	17.08
22 11 16 00-1001	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	68.06 14.33	19.08
22 11 16 00-1002	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	74.67 16.31	21.69
22 11 16 00-1003	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	90.22 19.27	25.69
22 11 16 00-1004	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	120.72 23.72	31.55
22 11 16 00-1005	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	189.12 30.11	40.16
22 11 16 00-1006	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	398.68 39.51	52.62
22 11 16 00-1007 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts (22 11 16 00-0935)				
22 11 16 00-1008	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	25.21 4.68	6.24
22 11 16 00-1009	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	32.32 6.59	8.73
22 11 16 00-1010	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	40.68 8.87	11.85
22 11 16 00-1011	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	51.04 11.60	15.47
22 11 16 00-1012	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	59.28 12.83	17.08
22 11 16 00-1013	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	73.31 14.33	19.08
22 11 16 00-1014	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	108.99 16.31	21.69
22 11 16 00-1015	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	206.89 19.27	25.69
22 11 16 00-1016	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	303.92 23.72	31.55
22 11 16 00-1017 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters (22 11 16 00-0935)				
22 11 16 00-1018	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	19.27 4.68	6.24
22 11 16 00-1019	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	26.93 6.59	8.73
22 11 16 00-1020	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	37.95 8.87	11.85
22 11 16 00-1021	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	51.04 11.60	15.47
22 11 16 00-1022	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	59.52 12.83	17.08



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22 11 16 00-1023 EA 2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters For Work In Restricted Working Space, Add	70.41 14.33	19.08
22 11 16 00-1024 EA 2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters For Work In Restricted Working Space, Add	97.26 16.31	21.69
22 11 16 00-1025 EA 3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters For Work In Restricted Working Space, Add	116.08 19.27	25.69
22 11 16 00-1026 EA 4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters For Work In Restricted Working Space, Add	166.74 23.72	31.55
22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0935)		
22 11 16 00-1028 EA 1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters For Work In Restricted Working Space, Add	20.68 4.68	6.24
22 11 16 00-1029 EA 3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters For Work In Restricted Working Space, Add	27.38 6.59	8.73
22 11 16 00-1030 EA 1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters For Work In Restricted Working Space, Add	38.07 8.87	11.85
22 11 16 00-1031 EA 1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters For Work In Restricted Working Space, Add	51.45 11.60	15.47
22 11 16 00-1032 EA 1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters For Work In Restricted Working Space, Add	57.64 12.83	17.08
22 11 16 00-1033 EA 2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters For Work In Restricted Working Space, Add	68.88 14.33	19.08
22 11 16 00-1034 EA 2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters For Work In Restricted Working Space, Add	98.14 16.31	21.69
22 11 16 00-1035 EA 3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters For Work In Restricted Working Space, Add	131.56 19.27	25.69
22 11 16 00-1036 EA 4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters For Work In Restricted Working Space, Add	193.07 23.72	31.55
22 11 16 00-1037 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0935)		
22 11 16 00-1038 EA 1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	17.35 4.26	5.73
22 11 16 00-1039 EA 3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	24.38 5.99	7.98
22 11 16 00-1040 EA 1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	32.78 8.04	10.72
22 11 16 00-1041 EA 1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	44.08 10.55	14.09
22 11 16 00-1042 EA 1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	50.14 11.67	15.59
22 11 16 00-1043 EA 2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	56.43 13.02	17.33
22 11 16 00-1044 EA 2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	80.63 14.81	19.70
22 11 16 00-1045 EA 3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	89.92 17.51	23.32
22 11 16 00-1046 EA 4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	113.17 21.55	28.68
22 11 16 00-1047 EA 6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	172.85 27.38	36.53
22 11 16 00-1048 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings For Work In Restricted Working Space, Add	285.00 35.91	47.89
22 11 16 00-1049 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0935)		
22 11 16 00-1050 EA 1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	30.45 5.12	6.85
22 11 16 00-1051 EA 3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	37.96 7.18	9.60
22 11 16 00-1052 EA 1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	46.64 9.65	12.84
22 11 16 00-1053 EA 1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	76.17 12.65	16.84
22 11 16 00-1054 EA 1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	81.27 13.99	18.71
22 11 16 00-1055 EA 2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	109.58 15.64	20.83
22 11 16 00-1056 EA 2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	178.37 17.77	23.69
22 11 16 00-1057 EA 3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	250.11 21.02	28.05
22 11 16 00-1058 EA 4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	392.22 25.85	34.41
22 11 16 00-1059 EA 6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions For Work In Restricted Working Space, Add	522.83 32.85	43.77

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22 11 16 00-1060	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	648.57 43.10	57.49
22 11 16 00-1061		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0935)		
22 11 16 00-1062	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	13.84 2.67	5.87
22 11 16 00-1063	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	18.26 3.37	7.36
22 11 16 00-1064	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	26.50 4.22	9.23
22 11 16 00-1065	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	31.20 5.28	6.99
22 11 16 00-1066	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	33.34 5.84	7.73
22 11 16 00-1067	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	44.05 6.51	8.73
22 11 16 00-1068	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	64.95 7.41	9.85
22 11 16 00-1069	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	70.36 8.75	11.72
22 11 16 00-1070	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	105.38 10.78	14.34
22 11 16 00-1071	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	218.47 13.69	18.21
22 11 16 00-1072	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	281.77 17.96	23.94
22 11 16 00-1073		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges (22 11 16 00-0935)		
22 11 16 00-1074	EA	1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	23.29 3.41	4.49
22 11 16 00-1075	EA	3/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	28.76 4.79	6.36
22 11 16 00-1076	EA	1" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	35.71 6.44	8.60
22 11 16 00-1077	EA	1-1/4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	42.85 8.45	11.23
22 11 16 00-1078	EA	1-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	46.18 9.35	12.47
22 11 16 00-1079	EA	2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	54.63 10.40	13.84
22 11 16 00-1080	EA	2-1/2" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	70.68 11.86	15.84
22 11 16 00-1081	EA	3" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	80.62 13.99	18.71
22 11 16 00-1082	EA	4" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	100.54 17.25	22.95
22 11 16 00-1083	EA	6" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	140.77 21.92	29.18
22 11 16 00-1084	EA	8" Diameter, Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	248.47 28.73	38.28
22 11 16 00-1085		Polypropylene Random (PP-R), Heat Fusion, Domestic Water Pipe (22 11 16)		
22 11 16 00-1086		Polypropylene Random (PP-R), Heat Fusion, Domestic Hot Water Pipe (22 11 16 00-1085) Note: Aquatherm greenpipe®		
22 11 16 00-1087	LF	1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	5.64	2.12
22 11 16 00-1088	LF	3/4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	6.53	2.21
22 11 16 00-1089	LF	1" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	8.79	2.65
22 11 16 00-1090	LF	1-1/4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	10.94	2.84
22 11 16 00-1091	LF	1-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	14.96	3.19
22 11 16 00-1092	LF	2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	19.60	3.25
22 11 16 00-1093	LF	2-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	27.91	4.42
22 11 16 00-1094	LF	3" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	36.85	5.12
22 11 16 00-1095	LF	3-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	49.30	5.72
22 11 16 00-1096	LF	4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	58.18	6.32
22 11 16 00-1097		Polypropylene Random (PP-R), Heat Fusion, Domestic Cold Water Pipe (22 11 16 00-1085) Note: Aquatherm greenpipe®		
22 11 16 00-1098	LF	1/2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	5.20	2.12
22 11 16 00-1099	LF	3/4" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	5.80	2.21
22 11 16 00-1100	LF	1" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	7.48	2.65
22 11 16 00-1101	LF	1-1/4" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	9.03	2.84
22 11 16 00-1102	LF	1-1/2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	11.63	3.19
22 11 16 00-1103	LF	2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	14.87	3.25
22 11 16 00-1104	LF	2-1/2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	20.63	4.42
22 11 16 00-1105	LF	3" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	27.23	5.12
22 11 16 00-1106	LF	3-1/2" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	37.23	5.72



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22 11 16 00-1107	LF	4" Diameter, SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	43.88		6.32
22 11 16 00-1108		Polypropylene Random (PP-R), Heat Fusion, UV Protected, Domestic Hot Water Pipe (22 11 16 00-1085) Note: Aquatherm greenpipe®.			
22 11 16 00-1109	LF	1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	5.87		2.12
22 11 16 00-1110	LF	3/4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	6.85		2.21
22 11 16 00-1111	LF	1" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	9.14		2.65
22 11 16 00-1112	LF	1-1/4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	11.39		2.84
22 11 16 00-1113	LF	1-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	16.26		3.19
22 11 16 00-1114	LF	2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	20.31		3.25
22 11 16 00-1115	LF	2-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	28.92		4.42
22 11 16 00-1116	LF	3" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	39.35		5.12
22 11 16 00-1117	LF	3-1/2" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	49.16		5.72
22 11 16 00-1118	LF	4" Diameter, SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe	57.79		6.32
22 11 16 00-1119		Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe (22 11 16 00-1085) Note: Aquatherm climatherm®.			
22 11 16 00-1120	LF	1/2" Diameter, SDR 7.4, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	5.18		2.13
22 11 16 00-1121	LF	3/4" Diameter, SDR 7.4, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	5.89		2.21
22 11 16 00-1122	LF	1" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	7.00		2.65
22 11 16 00-1123	LF	1-1/4" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	8.35		2.84
22 11 16 00-1124	LF	1-1/2" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	10.39		3.20
22 11 16 00-1125	LF	2" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	13.00		3.26
22 11 16 00-1126	LF	2-1/2" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	18.06		4.42
22 11 16 00-1127	LF	3" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	23.66		5.12
22 11 16 00-1128	LF	3-1/2" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	31.34		5.73
22 11 16 00-1129	LF	4" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	37.62		6.32
22 11 16 00-1130	LF	6" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	45.32		8.09
22 11 16 00-1131	LF	8" Diameter, SDR 11, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe	72.02		10.62
22 11 16 00-1132		Pipe Clamp For Polypropylene Random (PP-R) Pipe (22 11 16 00-1085)			
22 11 16 00-1133	EA	1/2" Diameter Pipe Clamp For Polypropylene Pipe	14.24		5.25
22 11 16 00-1134	EA	3/4" Diameter Pipe Clamp For Polypropylene Pipe	14.81		5.25
22 11 16 00-1135	EA	1" Diameter Pipe Clamp For Polypropylene Pipe	15.19		5.25
22 11 16 00-1136	EA	1-1/4" Diameter Pipe Clamp For Polypropylene Pipe	15.31		5.25
22 11 16 00-1137	EA	1-1/2" Diameter Pipe Clamp For Polypropylene Pipe	15.76		5.25
22 11 16 00-1138	EA	2" Diameter Pipe Clamp For Polypropylene Pipe	17.03		5.25
22 11 16 00-1139	EA	2-1/2" Diameter Pipe Clamp For Polypropylene Pipe	18.87		5.25
22 11 16 00-1140	EA	3" Diameter Pipe Clamp For Polypropylene Pipe	19.50		5.25
22 11 16 00-1141	EA	3-1/2" Diameter Pipe Clamp For Polypropylene Pipe	20.39		5.25
22 11 16 00-1142	EA	4" Diameter Pipe Clamp For Polypropylene Pipe	21.60		5.25
22 11 16 00-1143		Polypropylene Random (PP-R) Pipe, Pipe Fastening Strap (22 11 16 00-1085)			
22 11 16 00-1144	EA	Up to 1" Diameter Polypropylene Pipe, Single Pipe Fastening Strap, 1-3/8" Spike	4.87		
22 11 16 00-1145	EA	Up to 1" Diameter Polypropylene Pipe, Single Pipe Fastening Strap, 2-1/2" Spike	5.02		
22 11 16 00-1146	EA	Up to 1" Diameter Polypropylene Pipe, Double Pipe Fastening Strap, 1-3/8" Spike	5.10		
22 11 16 00-1147	EA	Up to 1" Diameter Polypropylene Pipe, Double Pipe Fastening Strap, 2-1/2" Spike	5.15		
22 11 16 00-1148		Polypropylene Random (PP-R) Pipe Plastic Pipe Clamp (22 11 16 00-1085)			
22 11 16 00-1149	EA	1/2" Diameter, Polypropylene Pipe Plastic Pipe Clamp	11.58		2.73
22 11 16 00-1150	EA	3/4" Diameter, Polypropylene Pipe Plastic Pipe Clamp	11.97		2.73
22 11 16 00-1151		Polypropylene Random (PP-R), Heat Fusion, Socket Coupling (22 11 16 00-1085)			
22 11 16 00-1152	EA	1/2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	10.08		4.24
22 11 16 00-1153	EA	3/4" Diameter, Polypropylene, Heat Fusion, Socket Coupling	10.65		4.42
22 11 16 00-1154	EA	1" Diameter, Polypropylene, Heat Fusion, Socket Coupling	12.99		5.31
22 11 16 00-1155	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Socket Coupling	14.22		5.69
22 11 16 00-1156	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	18.73		6.38
22 11 16 00-1157	EA	2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	24.94		6.51
22 11 16 00-1158	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	31.03		8.85
22 11 16 00-1159	EA	3" Diameter, Polypropylene, Heat Fusion, Socket Coupling	49.80		10.24
22 11 16 00-1160	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, Socket Coupling	70.59		11.44
22 11 16 00-1161	EA	4" Diameter, Polypropylene, Heat Fusion, Socket Coupling	87.88		12.64
22 11 16 00-1162		Polypropylene Random (PP-R), Heat Fusion, Bushing (22 11 16 00-1085)			
22 11 16 00-1163	EA	1" Diameter, Polypropylene, Heat Fusion, Bushing	10.87		4.24
22 11 16 00-1164	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Bushing	12.54		4.42
22 11 16 00-1165	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Bushing	16.73		5.31
22 11 16 00-1166	EA	2" Diameter, Polypropylene, Heat Fusion, Bushing	23.59		5.69
22 11 16 00-1167	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Bushing	26.44		6.38
22 11 16 00-1168	EA	3" Diameter, Polypropylene, Heat Fusion, Bushing	43.46		6.51

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22 11 16 00-1169	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, Bushing.....	66.35	8.85
22 11 16 00-1170	EA	4" x 2-1/2" Diameter, Polypropylene, Heat Fusion, Bushing.....	79.85	10.24
22 11 16 00-1171	EA	4" x 3" Diameter, Polypropylene, Heat Fusion, Bushing.....	96.73	11.44
22 11 16 00-1172	EA	4" x 3-1/2" Diameter, Polypropylene, Heat Fusion, Bushing.....	101.33	12.64
22 11 16 00-1173		Polypropylene Random (PP-R), Heat Fusion, Reducing Coupling (22 11 16 00-1085)		
22 11 16 00-1174	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Reducing Coupling.....	14.56	4.42
22 11 16 00-1175	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling.....	19.23	5.31
22 11 16 00-1176	EA	2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling.....	28.55	5.69
22 11 16 00-1177	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling.....	31.64	6.38
22 11 16 00-1178	EA	3" Diameter, Polypropylene, Heat Fusion, Reducing Coupling.....	38.45	6.51
22 11 16 00-1179	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling.....	61.80	8.85
22 11 16 00-1180	EA	4" x 3" Diameter, Polypropylene, Heat Fusion, Reducing Coupling.....	80.21	10.74
22 11 16 00-1181	EA	4" x 3-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Coupling.....	89.91	12.64
22 11 16 00-1182		Polypropylene Random (PP-R), Heat Fusion, 90 Degree Elbow (22 11 16 00-1085)		
22 11 16 00-1183	EA	1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	18.66	8.47
22 11 16 00-1184	EA	3/4" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	20.04	8.91
22 11 16 00-1185	EA	1" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	24.43	10.62
22 11 16 00-1186	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	27.80	11.44
22 11 16 00-1187	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	36.01	12.70
22 11 16 00-1188	EA	2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	42.19	12.95
22 11 16 00-1189	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	71.63	17.76
22 11 16 00-1190	EA	3" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	100.97	20.47
22 11 16 00-1191	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	131.00	22.88
22 11 16 00-1192	EA	4" Diameter, Polypropylene, Heat Fusion, 90 Degree Elbow.....	181.87	25.28
22 11 16 00-1193		Polypropylene Random (PP-R), Heat Fusion, 90 Degree Street Elbow (22 11 16 00-1085)		
22 11 16 00-1194	EA	1/2" Diameter, Polypropylene, Heat Fusion, 90 Degree Street Elbow.....	18.66	8.47
22 11 16 00-1195	EA	3/4" Diameter, Polypropylene, Heat Fusion, 90 Degree Street Elbow.....	20.04	8.91
22 11 16 00-1196	EA	1" Diameter, Polypropylene, Heat Fusion, 90 Degree Street Elbow.....	24.43	10.62
22 11 16 00-1197	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, 90 Degree Street Elbow.....	27.80	11.44
22 11 16 00-1198		Polypropylene Random (PP-R), Heat Fusion, 45 Degree Elbow (22 11 16 00-1085)		
22 11 16 00-1199	EA	1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	18.66	8.47
22 11 16 00-1200	EA	3/4" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	20.04	8.91
22 11 16 00-1201	EA	1" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	24.43	10.62
22 11 16 00-1202	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	27.80	11.44
22 11 16 00-1203	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	36.01	12.70
22 11 16 00-1204	EA	2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	42.00	12.95
22 11 16 00-1205	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	71.20	17.76
22 11 16 00-1206	EA	3" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	106.81	20.47
22 11 16 00-1207	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	139.54	22.88
22 11 16 00-1208	EA	4" Diameter, Polypropylene, Heat Fusion, 45 Degree Elbow.....	194.97	25.28
22 11 16 00-1209		Polypropylene Random (PP-R), Heat Fusion, 45 Degree Street Elbow (22 11 16 00-1085)		
22 11 16 00-1210	EA	1/2" Diameter, Polypropylene, Heat Fusion, 45 Degree Street Elbow.....	18.64	8.47
22 11 16 00-1211	EA	3/4" Diameter, Polypropylene, Heat Fusion, 45 Degree Street Elbow.....	20.04	8.91
22 11 16 00-1212	EA	1" Diameter, Polypropylene, Heat Fusion, 45 Degree Street Elbow.....	24.43	10.62
22 11 16 00-1213	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, 45 Degree Street Elbow.....	27.80	11.44
22 11 16 00-1214		Polypropylene Random (PP-R), Heat Fusion, Tee (22 11 16 00-1085)		
22 11 16 00-1215	EA	1/2" Diameter, Polypropylene, Heat Fusion, Tee.....	27.74	12.70
22 11 16 00-1216	EA	3/4" Diameter, Polypropylene, Heat Fusion, Tee.....	29.86	13.33
22 11 16 00-1217	EA	1" Diameter, Polypropylene, Heat Fusion, Tee.....	35.80	15.86
22 11 16 00-1218	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Tee.....	40.46	17.13
22 11 16 00-1219	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Tee.....	55.90	19.08
22 11 16 00-1220	EA	2" Diameter, Polypropylene, Heat Fusion, Tee.....	64.31	19.46
22 11 16 00-1221	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Tee.....	95.75	26.60
22 11 16 00-1222	EA	3" Diameter, Polypropylene, Heat Fusion, Tee.....	131.65	30.72
22 11 16 00-1223	EA	3-1/2" Diameter, Polypropylene, Heat Fusion, Tee.....	178.05	34.29
22 11 16 00-1224	EA	4" Diameter, Polypropylene, Heat Fusion, Tee.....	221.21	37.86
22 11 16 00-1225		Polypropylene Random (PP-R), Heat Fusion, Reducing Tee (22 11 16 00-1085)		
22 11 16 00-1226	EA	1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	27.74	12.70
22 11 16 00-1227	EA	3/4" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	29.86	13.33
22 11 16 00-1228	EA	1" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	35.75	15.86
22 11 16 00-1229	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	40.46	17.13
22 11 16 00-1230	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	55.90	19.08
22 11 16 00-1231	EA	2" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	62.78	19.46
22 11 16 00-1232	EA	2-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	92.11	26.60
22 11 16 00-1233	EA	3" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	139.40	30.72



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1234	EA		3-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	190.42	34.29
22 11 16 00-1235	EA		4" x 2-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	216.81	37.86
22 11 16 00-1236	EA		4" x 3" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	221.71	37.86
22 11 16 00-1237	EA		4" x 3-1/2" Diameter, Polypropylene, Heat Fusion, Reducing Tee.....	222.26	37.86
22 11 16 00-1238 Polypropylene Random (PP-R), Heat Fusion, End Cap (22 11 16 00-1085)					
22 11 16 00-1239	EA		1/2" Diameter, Polypropylene, Heat Fusion, End Cap	10.99	4.24
22 11 16 00-1240	EA		3/4" Diameter, Polypropylene, Heat Fusion, End Cap	12.05	4.42
22 11 16 00-1241	EA		1" Diameter, Polypropylene, Heat Fusion, End Cap	14.50	5.31
22 11 16 00-1242	EA		1-1/4" Diameter, Polypropylene, Heat Fusion, End Cap	17.49	5.69
22 11 16 00-1243	EA		1-1/2" Diameter, Polypropylene, Heat Fusion, End Cap	21.19	6.38
22 11 16 00-1244	EA		2" Diameter, Polypropylene, Heat Fusion, End Cap	27.12	6.51
22 11 16 00-1245	EA		2-1/2" Diameter, Polypropylene, Heat Fusion, End Cap	38.13	8.85
22 11 16 00-1246	EA		3" Diameter, Polypropylene, Heat Fusion, End Cap	66.65	10.24
22 11 16 00-1247	EA		3-1/2" Diameter, Polypropylene, Heat Fusion, End Cap	78.43	11.44
22 11 16 00-1248	EA		4" Diameter, Polypropylene, Heat Fusion, End Cap	109.88	12.64
22 11 16 00-1249 Polypropylene Random (PP-R), Heat Fusion Outlet (22 11 16 00-1065)					
22 11 16 00-1250	EA		1-1/4" x 1/2" Polypropylene, Heat Fusion Outlet.....	13.72	
22 11 16 00-1251	EA		1-1/4" x 3/4" Polypropylene, Heat Fusion Outlet.....	14.10	
22 11 16 00-1252	EA		1-1/2" x 1/2" Polypropylene, Heat Fusion Outlet.....	14.31	
22 11 16 00-1253	EA		1-1/2" x 3/4" Polypropylene, Heat Fusion Outlet.....	14.69	
22 11 16 00-1254	EA		2" x 1/2" Polypropylene, Heat Fusion Outlet.....	15.31	
22 11 16 00-1255	EA		2" x 3/4" Polypropylene, Heat Fusion Outlet.....	15.69	
22 11 16 00-1256	EA		2" x 1" Polypropylene, Heat Fusion Outlet.....	17.58	
22 11 16 00-1257	EA		2-1/2" x 1/2" Polypropylene, Heat Fusion Outlet.....	16.30	
22 11 16 00-1258	EA		2-1/2" x 3/4" Polypropylene, Heat Fusion Outlet.....	16.68	
22 11 16 00-1259	EA		2-1/2" x 1" Polypropylene, Heat Fusion Outlet.....	18.57	
22 11 16 00-1260	EA		2-1/2" x 1-1/4" Polypropylene, Heat Fusion Outlet.....	19.46	
22 11 16 00-1261	EA		3" x 1/2" Polypropylene, Heat Fusion Outlet.....	17.29	
22 11 16 00-1262	EA		3" x 3/4" Polypropylene, Heat Fusion Outlet.....	17.67	
22 11 16 00-1263	EA		3" x 1" Polypropylene, Heat Fusion Outlet.....	19.56	
22 11 16 00-1264	EA		3" x 1-1/4" Polypropylene, Heat Fusion Outlet.....	20.45	
22 11 16 00-1265	EA		3-1/2" x 1/2" Polypropylene, Heat Fusion Outlet.....	17.29	
22 11 16 00-1266	EA		3-1/2" x 3/4" Polypropylene, Heat Fusion Outlet.....	18.66	
22 11 16 00-1267	EA		3-1/2" x 1" Polypropylene, Heat Fusion Outlet.....	20.55	
22 11 16 00-1268	EA		3-1/2" x 1-1/4" Polypropylene, Heat Fusion Outlet.....	21.44	
22 11 16 00-1269	EA		3-1/2" x 1-1/2" Polypropylene, Heat Fusion Outlet.....	25.34	
22 11 16 00-1270	EA		4" x 1/2" Polypropylene, Heat Fusion Outlet.....	19.27	
22 11 16 00-1271	EA		4" x 3/4" Polypropylene, Heat Fusion Outlet.....	19.65	
22 11 16 00-1272	EA		4" x 1" Polypropylene, Heat Fusion Outlet.....	21.54	
22 11 16 00-1273	EA		4" x 1-1/4" Polypropylene, Heat Fusion Outlet.....	22.43	
22 11 16 00-1274	EA		4" x 1-1/2" Polypropylene, Heat Fusion Outlet.....	25.34	
22 11 16 00-1275	EA		4" x 2" Polypropylene, Heat Fusion Outlet.....	29.79	
22 11 16 00-1276 Polypropylene Random (PP-R), Flange Adaptor With Gaskets Included (22 11 16 00-1085)					
22 11 16 00-1277	EA		1" Polypropylene, Flange Adaptor With Gaskets Included.....	16.19	5.31
22 11 16 00-1278	EA		1-1/4" Polypropylene, Flange Adaptor With Gaskets Included	17.95	5.69
22 11 16 00-1279	EA		1-1/2" Polypropylene, Flange Adaptor With Gaskets Included	23.05	6.38
22 11 16 00-1280	EA		2" Polypropylene, Flange Adaptor With Gaskets Included	24.62	6.51
22 11 16 00-1281	EA		2-1/2" Polypropylene, Flange Adaptor With Gaskets Included	33.93	8.85
22 11 16 00-1282	EA		3" Polypropylene, Flange Adaptor With Gaskets Included	53.49	10.24
22 11 16 00-1283	EA		3-1/2" Polypropylene, Flange Adaptor With Gaskets Included	72.06	11.44
22 11 16 00-1284	EA		4" Polypropylene, Flange Adaptor With Gaskets Included.....	150.54	12.64
22 11 16 00-1285 Polypropylene Random (PP-R), Flange Ring With ANSI Bolt Pattern (22 11 16 00-1085)					
22 11 16 00-1286	EA		1" Polypropylene, Flange Ring With ANSI Bolt Pattern	26.44	
22 11 16 00-1287	EA		1-1/4" Polypropylene, Flange Ring With ANSI Bolt Pattern	34.87	
22 11 16 00-1288	EA		1-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern	43.49	
22 11 16 00-1289	EA		2" Polypropylene, Flange Ring With ANSI Bolt Pattern	51.65	
22 11 16 00-1290	EA		2-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern	72.17	
22 11 16 00-1291	EA		3" Polypropylene, Flange Ring With ANSI Bolt Pattern	83.77	
22 11 16 00-1292	EA		3-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern	103.73	
22 11 16 00-1293	EA		4" Polypropylene, Flange Ring With ANSI Bolt Pattern	125.60	
22 11 16 00-1294 Polypropylene Random (PP-R), Electrofusion Coupling (22 11 16 00-1085)					
22 11 16 00-1295	EA		1/2" Polypropylene, Electrofusion Coupling	58.45	8.47
22 11 16 00-1296	EA		3/4" Polypropylene, Electrofusion Coupling	60.97	8.91
22 11 16 00-1297	EA		1" Polypropylene, Electrofusion Coupling	69.56	10.62
22 11 16 00-1298	EA		1-1/4" Polypropylene, Electrofusion Coupling.....	71.98	11.44
22 11 16 00-1299	EA		1-1/2" Polypropylene, Electrofusion Coupling.....	78.37	12.70
22 11 16 00-1300	EA		2" Polypropylene, Electrofusion Coupling	102.69	12.95
22 11 16 00-1301	EA		2-1/2" Polypropylene, Electrofusion Coupling.....	126.53	17.76
22 11 16 00-1302	EA		3" Polypropylene, Electrofusion Coupling	157.09	20.47



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1303	EA	3-1/2" Polypropylene, Electrofusion Coupling	210.68	22.88
22 11 16 00-1304	EA	4" Polypropylene, Electrofusion Coupling	258.13	25.28
22 11 16 00-1305		Polypropylene Random (PP-R), Heat Fusion, FIP Rear-Mount Back Plate Elbow (22 11 16 00-1085)		
22 11 16 00-1306	EA	1/2" Diameter, Polypropylene, Heat Fusion, FIP Rear-Mount Back Plate Elbow	32.49	11.62
22 11 16 00-1307	EA	3/4" Diameter, Polypropylene, Heat Fusion, FIP Rear-Mount Back Plate Elbow	37.95	12.07
22 11 16 00-1308		Polypropylene Random (PP-R), Heat Fusion, FIP Side-Mount Back Plate Elbow (22 11 16 00-1085)		
22 11 16 00-1309	EA	1/2" Diameter, Polypropylene, Heat Fusion, FIP Side-Mount Back Plate Elbow	34.71	11.62
22 11 16 00-1310		Polypropylene Random (PP-R), Heat Fusion, ISO Plug For Pressure Test (22 11 16 00-1085)		
22 11 16 00-1311	EA	1/2" Diameter, Polypropylene, Heat Fusion, ISO Plug For Pressure Test	9.73	4.24
22 11 16 00-1312	EA	3/4" Diameter, Polypropylene, Heat Fusion, ISO Plug For Pressure Test	10.48	4.42
22 11 16 00-1313		Polypropylene Random (PP-R), Heat Fusion, Round FIP NPT Transition Piece (22 11 16 00-1085)		
22 11 16 00-1314	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	24.83	8.47
22 11 16 00-1315	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	27.34	8.47
22 11 16 00-1316	EA	3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	25.72	8.91
22 11 16 00-1317	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	28.23	8.91
22 11 16 00-1318	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Round FIP NPT Transition Piece	32.68	10.62
22 11 16 00-1319		Polypropylene Random (PP-R), Heat Fusion, Hex FIP NPT Transition Piece (22 11 16 00-1085)		
22 11 16 00-1320	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	29.33	8.47
22 11 16 00-1321	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	31.46	8.47
22 11 16 00-1322	EA	3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	30.22	8.91
22 11 16 00-1323	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	32.35	8.91
22 11 16 00-1324	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	37.96	10.62
22 11 16 00-1325	EA	1" x 1" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	55.21	10.62
22 11 16 00-1326	EA	1-1/4" x 1" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	58.55	11.44
22 11 16 00-1327	EA	1-1/4" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	76.56	11.44
22 11 16 00-1328	EA	1-1/2" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	80.87	12.70
22 11 16 00-1329	EA	1-1/2" x 1-1/2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	87.67	12.70
22 11 16 00-1330	EA	2" x 1-1/2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	94.11	12.95
22 11 16 00-1331	EA	2" x 2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	122.31	12.95
22 11 16 00-1332	EA	2-1/2" x 2" Diameter, Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece	136.17	17.76
22 11 16 00-1333		Polypropylene Random (PP-R), Heat Fusion, Round MIP NPT Transition Piece (22 11 16 00-1085)		
22 11 16 00-1334	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	35.54	8.47
22 11 16 00-1335	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	38.20	8.47
22 11 16 00-1336	EA	3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	36.43	8.91
22 11 16 00-1337	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	39.09	8.91
22 11 16 00-1338	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	46.36	10.62
22 11 16 00-1339		Polypropylene Random (PP-R), Heat Fusion, Hex MIP NPT Transition Piece (22 11 16 00-1085)		
22 11 16 00-1340	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	30.58	8.47
22 11 16 00-1341	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	32.53	8.47
22 11 16 00-1342	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	33.42	8.91
22 11 16 00-1343	EA	1" x 1" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	47.38	10.62
22 11 16 00-1344	EA	1" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	65.25	10.62
22 11 16 00-1345	EA	1-1/4" x 1" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	49.99	11.44
22 11 16 00-1346	EA	1-1/4" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	69.71	11.44
22 11 16 00-1347	EA	1-1/2" x 1-1/4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	73.79	12.70
22 11 16 00-1348	EA	1-1/2" x 1-1/2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	85.01	12.70
22 11 16 00-1349	EA	2" x 1-1/2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	96.52	12.95
22 11 16 00-1350	EA	2" x 2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	108.48	12.95
22 11 16 00-1351	EA	2-1/2" x 2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	120.09	17.76
22 11 16 00-1352	EA	2-1/2" x 2-1/2" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	162.11	17.76
22 11 16 00-1353	EA	3" x 3" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	238.37	20.47
22 11 16 00-1354	EA	3-1/2" x 4" Diameter, Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	450.50	22.88
22 11 16 00-1355		Polypropylene Random (PP-R), Heat Fusion, Transition FIP NPT Elbow (22 11 16 00-1085)		
22 11 16 00-1356	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	30.74	8.47
22 11 16 00-1357	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	26.16	8.47



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1358	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	31.63	8.91
22 11 16 00-1359	EA	3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	27.05	8.91
22 11 16 00-1360	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	36.52	10.62
22 11 16 00-1361	EA	1" x 1" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Elbow	54.32	10.62
22 11 16 00-1362		Polypropylene Random (PP-R), Heat Fusion, Transition Male/Female x FIP NPT Street Elbow (22 11 16 00-1085)		
22 11 16 00-1363	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition Male/Female x FIP NPT Street Elbow	26.16	8.47
22 11 16 00-1364		Polypropylene Random (PP-R), Heat Fusion, Transition MIP NPT Elbow (22 11 16 00-1085)		
22 11 16 00-1365	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	28.45	8.47
22 11 16 00-1366	EA	1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	29.93	8.47
22 11 16 00-1367	EA	3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	30.82	8.91
22 11 16 00-1368	EA	1" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	38.22	10.62
22 11 16 00-1369	EA	1" x 1" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Elbow	51.44	10.62
22 11 16 00-1370		Polypropylene Random (PP-R), Heat Fusion, Transition FIP NPT Tee (22 11 16 00-1085)		
22 11 16 00-1371	EA	1/2" x 1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	36.34	12.70
22 11 16 00-1372	EA	1/2" x 1/2" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	39.96	12.70
22 11 16 00-1373	EA	3/4" x 3/4" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	37.59	13.33
22 11 16 00-1374	EA	3/4" x 3/4" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	41.21	13.33
22 11 16 00-1375	EA	1" x 1" x 3/4" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	48.72	15.86
22 11 16 00-1376	EA	1" x 1" x 1" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	64.97	15.86
22 11 16 00-1377	EA	1-1/2" x 1-1/2" x 1" Diameter, Polypropylene, Heat Fusion, Transition FIP NPT Tee	75.60	19.08
22 11 16 00-1378		Polypropylene Random (PP-R), Heat Fusion, Transition MIP NPT Tee (22 11 16 00-1085)		
22 11 16 00-1379	EA	1/2" x 1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition MIP NPT Tee	38.78	12.70
22 11 16 00-1380		Polypropylene Random (PP-R), Heat Fusion, Transition PP-R x Brass Compression Fitting (22 11 16 00-1085)		
22 11 16 00-1381	EA	1/2" x 1/2" Diameter, Polypropylene, Heat Fusion, Transition PP-R x Brass Compression Fitting	25.98	4.24
22 11 16 00-1382		Polypropylene Random (PP-R), Heat Fusion, Fusion Outlet x FIP NPT (22 11 16 00-1085)		
22 11 16 00-1383	EA	1/2" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	22.94	
22 11 16 00-1384	EA	3/4" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	29.09	
22 11 16 00-1385	EA	1" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	39.80	
22 11 16 00-1386		Polypropylene Random (PP-R), Heat Fusion, Fusion Outlet x MIP NPT (22 11 16 00-1085)		
22 11 16 00-1387	EA	1/2" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x MIP NPT	26.49	
22 11 16 00-1388	EA	3/4" Diameter, Polypropylene, Heat Fusion, Fusion Outlet x MIP NPT	35.65	
22 11 16 00-1389		Polypropylene Random (PP-R), Heat Fusion, PEX Adaptor (22 11 16 00-1085)		
22 11 16 00-1390	EA	1/2" Diameter, Polypropylene, Heat Fusion, PEX Adaptor	18.73	4.24
22 11 16 00-1391	EA	3/4" Diameter, Polypropylene, Heat Fusion, PEX Adaptor	27.56	4.42
22 11 16 00-1392	EA	1" Diameter, Polypropylene, Heat Fusion, PEX Adaptor	35.98	5.31
22 11 16 00-1393		Polypropylene Random (PP-R), Heat Fusion, FIP Stop Valve Body (22 11 16 00-1085)		
22 11 16 00-1394	EA	1/2" Diameter, Polypropylene, Heat Fusion, FIP Stop Valve Body	26.50	9.29
22 11 16 00-1395	EA	3/4" Diameter, Polypropylene, Heat Fusion, FIP Stop Valve Body	27.51	9.79
22 11 16 00-1396	EA	1" Diameter, Polypropylene, Heat Fusion, FIP Stop Valve Body	38.39	11.62
22 11 16 00-1397	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, FIP Stop Valve Body	57.53	12.58
22 11 16 00-1398		Polypropylene Random (PP-R), Heat Fusion, Inclined Check Valve (22 11 16 00-1085)		
22 11 16 00-1399	EA	1/2" Diameter, Polypropylene, Heat Fusion, Inclined Check Valve	72.23	9.29
22 11 16 00-1400	EA	3/4" Diameter, Polypropylene, Heat Fusion, Inclined Check Valve	73.24	9.79
22 11 16 00-1401	EA	1" Diameter, Polypropylene, Heat Fusion, Inclined Check Valve	87.50	11.62
22 11 16 00-1402	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Inclined Check Valve	141.84	12.58
22 11 16 00-1403		Polypropylene Random (PP-R), Heat Fusion, Ball Valve (22 11 16 00-1085)		
22 11 16 00-1404	EA	1/2" Diameter, Polypropylene, Heat Fusion, Ball Valve	66.97	9.29
22 11 16 00-1405	EA	3/4" Diameter, Polypropylene, Heat Fusion, Ball Valve	74.07	9.79
22 11 16 00-1406	EA	1" Diameter, Polypropylene, Heat Fusion, Ball Valve	89.78	11.62
22 11 16 00-1407	EA	1-1/4" Diameter, Polypropylene, Heat Fusion, Ball Valve	125.74	12.58
22 11 16 00-1408	EA	1-1/2" Diameter, Polypropylene, Heat Fusion, Ball Valve	181.68	13.97
22 11 16 00-1409	EA	2" Diameter, Polypropylene, Heat Fusion, Ball Valve	274.49	14.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1410 Extension For Ball Valve (22 11 16 00-1085)		
22 11 16 00-1411 EA Extension For 1/2" to 3/4" Diameter Ball Valve, 1-3/8" Length.....	33.95	
22 11 16 00-1412 EA Extension For 1" to 1-1/4" Diameter Ball Valve, 1-3/8" Length	34.00	
22 11 16 00-1413 EA Extension For 1-1/2" to 2" Diameter Ball Valve, 1-3/4" Length	37.12	
22 11 16 00-1414 Polypropylene Random (PP-R), Heat Fusion, Draining Branch (22 11 16 00-1085)		
22 11 16 00-1415 EA 1/2" Diameter, Polypropylene, Heat Fusion, Draining Branch	33.50	8.47
22 11 16 00-1416 EA 3/4" Diameter, Polypropylene, Heat Fusion, Draining Branch	34.39	8.91
22 11 16 00-1417 EA 1" Diameter, Polypropylene, Heat Fusion, Draining Branch	39.55	10.62
22 11 16 00-1418 EA 1-1/4" Diameter, Polypropylene, Heat Fusion, Draining Branch	41.20	11.44
22 11 16 00-1419 EA 1-1/2" Diameter, Polypropylene, Heat Fusion, Draining Branch	45.26	12.70
22 11 16 00-1420 EA 2" Diameter, Polypropylene, Heat Fusion, Draining Branch	48.42	12.95
22 11 19 Domestic Water Piping Specialties (22 11)		
22 11 19 00-0001 Rubber Hose And Clamps (22 11 19)		
22 11 19 00-0002 General Purpose Hose (22 11 19 00-0001)		
Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003 LF 3/8" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	8.60	2.70
22 11 19 00-0004 LF 1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	10.08	2.70
22 11 19 00-0005 LF 5/8" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	12.26	2.70
22 11 19 00-0006 LF 3/4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	12.37	2.70
22 11 19 00-0007 LF 1" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	16.78	4.04
22 11 19 00-0008 LF 1-1/4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	27.57	4.04
22 11 19 00-0009 LF 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	29.98	5.39
22 11 19 00-0010 LF 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	57.12	5.39
22 11 19 00-0011 Reinforced EPDM Water Hose Assembly (22 11 19 00-0001)		
Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012 LF 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	75.63	5.39
22 11 19 00-0013 LF 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	89.20	5.39
22 11 19 00-0014 LF 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	125.39	6.63
22 11 19 00-0015 LF 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	176.04	8.95
22 11 19 00-0016 Chemical Resistant Rubber Hoses (22 11 19 00-0001)		
22 11 19 00-0017 EA 50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose	1,476.82	335.43
22 11 19 00-0018 EA 50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose	2,004.88	335.43
22 11 19 00-0019 Water Pump Hose (22 11 19 00-0001)		
22 11 19 00-0020 EA 2" Inside Diameter, 20' Rubber Discharge Hose.....	650.79	82.27
22 11 19 00-0021 EA 2" Inside Diameter, 20' Rubber Intake Hose	688.40	82.27
22 11 19 00-0022 Barbed Hose x Threaded Male Pipe, Steel Coupling (22 11 19 00-0001)		
22 11 19 00-0023 EA 3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	33.92	11.31
22 11 19 00-0024 EA 1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	35.97	12.12
22 11 19 00-0025 EA 5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	38.51	12.92
22 11 19 00-0026 EA 3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	42.96	14.54
22 11 19 00-0027 EA 1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling	52.36	17.77
22 11 19 00-0028 EA 1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling	62.00	21.28
22 11 19 00-0029 EA 1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling	79.82	28.01
22 11 19 00-0030 EA 2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling	100.52	35.01
22 11 19 00-0031 Worm-Drive Hose Clamp (22 11 19 00-0001)		
22 11 19 00-0032 EA 3/8" To 1" Diameter, Worm Drive Hose Clamp	14.05	4.04
22 11 19 00-0033 EA 1/2" To 1-1/6" Diameter, Worm Drive Hose Clamp	14.87	4.04
22 11 19 00-0034 EA 5/8" To 1-1/2" Diameter, Worm Drive Hose Clamp	15.74	4.04
22 11 19 00-0035 EA 3/4" To 2" Diameter, Worm Drive Hose Clamp	16.76	4.04
22 11 19 00-0036 EA 1" To 2-1/2" Diameter, Worm Drive Hose Clamp	17.91	4.04
22 11 19 00-0037 EA 1-1/4" To 2-3/4" Diameter, Worm Drive Hose Clamp.....	19.39	5.39
22 11 19 00-0038 EA 1-1/2" To 3" Diameter, Worm Drive Hose Clamp.....	20.94	5.39
22 11 19 00-0039 Trap Primer And Accessories (22 11 19)		
22 11 19 00-0040 Trap Primer (22 11 19 00-0039)		
22 11 19 00-0041 EA 1/2" Diameter Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699)	347.60	20.31
22 11 19 00-0042 EA 1/2" Diameter Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500)	213.14	13.54



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0043	EA	1/2" Diameter Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	206.41	13.54
22 11 19 00-0044		Trap Primer Distribution Unit (22 11 19 00-0039)		
22 11 19 00-0045	EA	Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U) Note: Can be used for two, three or four drains.	178.30	27.08
22 11 19 00-0046	EA	Copper Four Opening Trap Primer Distribution Unit (PPP DU-4) Note: Can be used for two, three or four drains.	196.43	27.08
22 11 19 00-0047		Trap Primer Manifold (22 11 19 00-0039)		
22 11 19 00-0048	EA	Two Outlet Trap Primer Manifold	278.96	36.43
22 11 19 00-0049	EA	Four Outlet Trap Primer Manifold	422.45	41.43
22 11 19 00-0050	EA	Six Outlet Trap Primer Manifold	562.67	43.87
22 11 19 00-0051	EA	Eight Outlet Trap Primer Manifold.....	707.94	51.45
22 11 19 00-0052		Brass, Anti Siphon Vacuum Breakers (22 11 19) Note: Watts 288A		
22 11 19 00-0053	EA	1/2" Brass, Anti Siphon Vacuum Breaker	125.10	33.86
22 11 19 00-0054	EA	3/4" Brass, Anti Siphon Vacuum Breaker	143.76	37.91
22 11 19 00-0055	EA	1" Brass, Anti Siphon Vacuum Breaker	294.96	43.33
22 11 19 00-0056	EA	1-1/4" Brass, Anti Siphon Vacuum Breaker	469.42	50.10
22 11 19 00-0057	EA	1-1/2" Brass, Anti Siphon Vacuum Breaker	560.71	55.52
22 11 19 00-0058	EA	2" Brass, Anti Siphon Vacuum Breaker	820.82	67.70
22 11 19 00-0059	EA	2-1/2" Brass, Anti Siphon Vacuum Breaker	2,153.61	84.63
22 11 19 00-0060		Anti Siphon Pressure Vacuum Breakers (22 11 19) Note: Watts 800M4QT		
22 11 19 00-0061	EA	1/2" Anti Siphon Pressure Type Vacuum Breaker	368.23	33.86
22 11 19 00-0062	EA	3/4" Anti Siphon Pressure Type Vacuum Breaker	321.82	37.91
22 11 19 00-0063	EA	1" Anti Siphon Pressure Type Vacuum Breaker	460.33	43.33
22 11 19 00-0064	EA	1-1/4" Anti Siphon Pressure Type Vacuum Breaker	833.24	50.10
22 11 19 00-0065	EA	1-1/2" Anti Siphon Pressure Type Vacuum Breaker	1,014.74	55.52
22 11 19 00-0066	EA	2" Anti Siphon Pressure Type Vacuum Breaker	1,024.20	67.70
22 11 19 00-0067		Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0068	EA	Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005)	271.05	16.19
22 11 19 00-0069	EA	>11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010)	525.70	19.59
22 11 19 00-0070	EA	>32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020)	765.67	19.59
22 11 19 00-0071	EA	>60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030)	1,861.21	19.59
22 11 19 00-0072	EA	>113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040)	2,089.78	19.59
22 11 19 00-0073	EA	>154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050)	2,559.71	19.59
22 11 19 00-0074		Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0075		Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0074)		
22 11 19 00-0076	EA	Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A)	203.94	9.03
22 11 19 00-0077	EA	>11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	392.60	10.41
22 11 19 00-0078	EA	>32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	584.00	11.28
22 11 19 00-0079	EA	>60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D)	1,438.36	14.56
22 11 19 00-0080	EA	>113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,751.81	18.06
22 11 19 00-0081	EA	>154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,993.55	19.59
22 11 19 00-0082		Escutcheons (22 11 19)		
22 11 19 00-0083		Brass Escutcheons (22 11 19 00-0082)		
22 11 19 00-0084		Shallow Brass Escutcheons (22 11 19 00-0083)		
22 11 19 00-0085	EA	3/8" IPS, Antique Or Polished Brass Shallow Escutcheon.....	14.78	3.39
22 11 19 00-0086	EA	1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....	15.89	3.39
22 11 19 00-0087		Deep Bell Brass Escutcheons (22 11 19 00-0083)		
22 11 19 00-0088	EA	3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	17.32	3.79
22 11 19 00-0089	EA	1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	17.36	3.79



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 19 00-0090		Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0083)	
22 11 19 00-0091	EA	3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	23.07 3.39
22 11 19 00-0092	EA	1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	23.31 3.39
22 11 19 00-0093	EA	5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	23.65 3.39
22 11 19 00-0094	EA	3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.89 3.39
22 11 19 00-0095	EA	7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.31 4.07
22 11 19 00-0096	EA	1" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.51 4.07
22 11 19 00-0097	EA	1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.54 4.47
22 11 19 00-0098	EA	1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.84 4.74
22 11 19 00-0099	EA	2" IPS, Chrome Plated Brass Escutcheon With Setscrew	41.00 5.42
22 11 19 00-0100		Plastic Escutcheons (22 11 19 00-0082)	
22 11 19 00-0101		Split-Ring White Plastic Escutcheons (22 11 19 00-0100)	
22 11 19 00-0102	EA	3/8" IPS, Split-Ring White Plastic Escutcheon	8.14 3.37
22 11 19 00-0103	EA	1/2" IPS, Split-Ring White Plastic Escutcheon	8.14 3.37
22 11 19 00-0104	EA	3/4" IPS, Split-Ring White Plastic Escutcheon	9.47 3.77
22 11 19 00-0105	EA	1" IPS, Split-Ring White Plastic Escutcheon	10.27 4.04
22 11 19 00-0106	EA	1-1/4" IPS, Split-Ring White Plastic Escutcheon	11.07 4.44
22 11 19 00-0107	EA	1-1/2" IPS, Split-Ring White Plastic Escutcheon	11.82 4.72
22 11 19 00-0108	EA	2" IPS, Split-Ring White Plastic Escutcheon	13.33 5.39
22 11 19 00-0109	EA	2-1/2" IPS, Split-Ring White Plastic Escutcheon	16.95 5.79
22 11 19 00-0110	EA	3" IPS, Split-Ring White Plastic Escutcheon	20.58 6.06
22 11 19 00-0111	EA	4" IPS, Split-Ring White Plastic Escutcheon	24.88 6.73
22 11 19 00-0112		Chrome Plate Plastic Escutcheons (22 11 19 00-0100)	
22 11 19 00-0113	EA	1/2" IPS, Chrome Plate Plastic Escutcheon	10.56 3.37
22 11 19 00-0114	EA	3/4" IPS, Chrome Plate Plastic Escutcheon	11.54 3.77
22 11 19 00-0115	EA	1" IPS, Chrome Plate Plastic Escutcheon	12.94 4.04
22 11 19 00-0116	EA	1-1/4" IPS, Chrome Plate Plastic Escutcheon	14.33 4.44
22 11 19 00-0117	EA	1-1/2" IPS, Chrome Plate Plastic Escutcheon	15.11 4.72
22 11 19 00-0118	EA	2" IPS, Chrome Plate Plastic Escutcheon	18.94 5.39
22 11 19 00-0119	EA	2-1/2" IPS, Chrome Plate Plastic Escutcheon	27.05 5.79
22 11 19 00-0120	EA	3" IPS, Chrome Plate Plastic Escutcheon	28.04 6.06
22 11 19 00-0121	EA	4" IPS, Chrome Plate Plastic Escutcheon	30.01 6.73
22 11 19 00-0122		Stainless Steel Escutcheons (22 11 19 00-0082)	
22 11 19 00-0123		Shallow Stainless Steel Escutcheons (22 11 19 00-0122)	
22 11 19 00-0124	EA	3/8" IPS, Shallow Stainless Steel Escutcheon	20.32 3.39
22 11 19 00-0125	EA	1/2" IPS, Shallow Stainless Steel Escutcheon	20.32 3.39
22 11 19 00-0126	EA	3/4" IPS, Shallow Stainless Steel Escutcheon	28.75 3.79
22 11 19 00-0127		Chrome Plated Steel Escutcheons (22 11 19 00-0082)	
22 11 19 00-0128		Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0127)	
22 11 19 00-0129	EA	1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.44 3.37
22 11 19 00-0130	EA	3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	8.11 3.77
22 11 19 00-0131	EA	1" IPS, Split-Ring Chrome Plated Steel Escutcheon	8.92 4.04
22 11 19 00-0132	EA	1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	9.59 4.44
22 11 19 00-0133	EA	1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	10.26 4.72
22 11 19 00-0134	EA	2" IPS, Split-Ring Chrome Plated Steel Escutcheon	11.82 5.39
22 11 19 00-0135	EA	2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	17.23 5.79
22 11 19 00-0136	EA	3" IPS, Split-Ring Chrome Plated Steel Escutcheon	18.29 6.06
22 11 19 00-0137	EA	3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	22.26 6.47
22 11 19 00-0138	EA	4" IPS, Split-Ring Chrome Plated Steel Escutcheon	19.98 6.73
22 11 19 00-0139	EA	5" IPS, Split-Ring Chrome Plated Steel Escutcheon	25.45 7.40
22 11 19 00-0140	EA	6" IPS, Split-Ring Chrome Plated Steel Escutcheon	29.55 8.08
22 11 19 00-0141		Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0127)	
22 11 19 00-0142	EA	3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.40 3.37
22 11 19 00-0143	EA	1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.40 3.37
22 11 19 00-0144	EA	3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	12.22 3.77
22 11 19 00-0145	EA	1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	13.70 4.04
22 11 19 00-0146	EA	1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	14.60 4.44
22 11 19 00-0147	EA	1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	15.47 4.72
22 11 19 00-0148	EA	2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	18.30 5.39
22 11 19 00-0149	EA	2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	20.93 5.79
22 11 19 00-0150	EA	3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	25.35 6.06
22 11 19 00-0151	EA	3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	30.89 6.47
22 11 19 00-0152	EA	4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	31.43 6.73
22 11 19 00-0153	EA	5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	50.97 7.40
22 11 19 00-0154	EA	6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	53.30 8.08



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0155 Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0156 EA 3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.05	3.79
22 11 19 00-0157 EA 1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.94	3.79
22 11 19 00-0158 EA 3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.69	3.79
22 11 19 00-0159 EA 1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.60	4.07
22 11 19 00-0160 EA 1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.42	4.47
22 11 19 00-0161 EA 1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	11.45	4.74
22 11 19 00-0162 Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0163 EA 3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.23	3.39
22 11 19 00-0164 EA 1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.23	3.39
22 11 19 00-0165 EA 3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.35	3.39
22 11 19 00-0166 EA 1" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.90	4.07
22 11 19 00-0167 EA 1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.64	4.47
22 11 19 00-0168 EA 1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.65	4.74
22 11 19 00-0169 EA 2" IPS, Shallow Chrome Plated Steel Escutcheon.....	12.09	5.42
22 11 19 00-0170 Wall Hydrants (22 11 19)		
Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0171 Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0170)		
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0172 EA 6" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	425.54	33.86
For Cast Bronze Box, Add	18.12	
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0173 EA 12" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	458.79	40.63
For Cast Bronze Box, Add	18.12	
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0174 EA 18" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	486.52	48.88
For Cast Bronze Box, Add	18.12	
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0175 Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0170)		
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0176 EA Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	498.23	56.87
For Cast Bronze Box, Add	18.12	
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0177 Cast Bronze Non-Freezing Wall Hydrant (22 11 19 00-0170)		
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0178 EA 3" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	298.52	41.98
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0179 EA 4" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	344.41	41.98
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0180 EA 6" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	344.41	41.98
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0181 EA 8" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	344.41	41.98
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0182 EA 10" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	355.09	84.63
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0183 EA 12" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	355.09	84.63
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0184 EA 18" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	387.04	84.63
For 1" NPT Outlet, Add	42.72	
22 11 19 00-0185 Stainless Steel Box Type Wall Hydrants (22 11 19 00-0170)		
Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0186 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	247.47	33.86
22 11 19 00-0187 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....	263.48	33.86
22 11 19 00-0188 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	265.66	33.86
22 11 19 00-0189 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151).....	289.68	33.86
22 11 19 00-0190 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	393.03	47.40
Note: Includes hot and cold hose connections.		
22 11 19 00-0191 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146).....	402.49	47.40
Note: Includes hot and cold hose connections.		
22 11 19 00-0192 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	402.49	47.40
Note: Includes hot and cold hose connections.		
22 11 19 00-0193 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156).....	425.05	47.40
Note: Includes hot and cold hose connections.		
22 11 19 00-0194 Washer Boxes And Dryer Outlets (22 11 19)		



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0195		Dryer Vent Kit (22 11 19 00-0194) Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0196	EA	Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	92.45	17.60
22 11 19 00-0197		Washer Boxes And Dryer Vents (22 11 19 00-0194) Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0198	EA	2" Diameter Washing Machine Outlet Box, Plastic, Two 1/2" Diameter Supply Valves	327.84	27.08
22 11 19 00-0199		Ice Maker Outlet Box (22 11 19) Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0200	EA	Plastic Ice Maker Outlet Box, 1/2" Diameter Quarter Turn Ball Valve, Wall Mount	174.65	27.08
22 11 19 00-0201	EA	Plastic Ice Maker Outlet Box, 1/2" Diameter Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	177.76	27.08
22 11 19 00-0202	EA	Steel Ice Maker Outlet Box, 1/2" Diameter Quarter Turn Ball Valve, Wall Mount	258.99	27.08
22 11 19 00-0203		Tempering Controllers For Potable Hot Water (22 11 19)		
22 11 19 00-0204		Point-Of-Use Thermostatic Mixing Valves (Bradley) (22 11 19 00-0203) Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0205	EA	1/2" Diameter Inlets, 1/2" Diameter Outlet, Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007)	612.23	32.78
22 11 19 00-0206	EA	1/2" Diameter Inlets, 1/2" Diameter Outlet, Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004)	166.43	32.78
22 11 19 00-0207	EA	1/2" Diameter Inlets, 1/2" Diameter Outlet, Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008)	346.47	32.78
22 11 19 00-0208	EA	3/4" Diameter Inlets, 3/4" Diameter Outlet, Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016)	396.75	44.17
22 11 19 00-0209		Thermostatic Mixing Valves (Bradley) (22 11 19 00-0203) Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0210	EA	3/4" Diameter Inlets, 3/4" Diameter Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	1,668.94	47.28
22 11 19 00-0211	EA	3/4" Diameter Inlets, 1" Diameter Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,872.50	58.23
22 11 19 00-0212	EA	1" Diameter Inlets, 1-1/4" Diameter Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	2,251.46	67.74
22 11 19 00-0213	EA	1-1/4" Diameter Inlets, 1-1/2" Diameter Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	2,921.09	71.19
22 11 19 00-0214	EA	2" Diameter Inlets, 2" Diameter Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	3,922.19	92.37
22 11 19 00-0215		High Low Temperature Thermostatic Mixing Valves (Bradley) (22 11 19 00-0203) Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0216	EA	3/4" Diameter Inlets, 1" Diameter Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	4,261.88	72.82
22 11 19 00-0217	EA	1" Diameter Inlets, 1-1/4" Diameter Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080)	5,548.58	84.68
22 11 19 00-0218	EA	1-1/4" Diameter Inlets, 1-1/2" Diameter Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130)	6,472.52	89.00
22 11 19 00-0219	EA	2" Diameter Inlets, 2" Diameter Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	7,168.02	115.46
22 11 19 00-0220		Thermostatic Mixing Valves (Leonard) (22 11 19 00-0203) Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0221	EA	3/4" Diameter In x 3/4" Diameter Out, Thermostatic Mixing Valve (Leonard LV-981-RF)	1,450.85	47.28
22 11 19 00-0222	EA	Note: For hot water or two pipe low pressure steam. 1" Diameter In x 1-1/4" Diameter Out, Thermostatic Mixing Valve (Leonard LV-982-RF)	1,706.59	58.23
22 11 19 00-0223	EA	Note: For hot water or two pipe low pressure steam. 1-1/4" Diameter In x 1-1/4" Diameter Out, Thermostatic Mixing Valve (Leonard LV-983-RF)	2,099.74	67.74
22 11 19 00-0224	EA	Note: For hot water or two pipe low pressure steam. 1-1/4" Diameter In x 1-1/2" Diameter Out, Thermostatic Mixing Valve (Leonard LV-984-RF)	2,574.34	71.22
22 11 19 00-0225	EA	Note: For hot water or two pipe low pressure steam. 2" Diameter In x 2" Diameter Out, Thermostatic Mixing Valve (Leonard LV-985-RF)	3,832.66	92.37
22 11 19 00-0226		Water Mixing/Self Operating Temperature Regulator (22 11 19 00-0203) Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0227	EA	3/4" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,437.60	67.70
22 11 19 00-0228	EA	1" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,644.00	85.31
22 11 19 00-0229	EA	1-1/4" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,014.86	102.91
22 11 19 00-0230	EA	1-1/2" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,420.50	120.52
22 11 19 00-0231	EA	2" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	5,254.27	158.43
22 11 19 00-0232	EA	2-1/2" Diameter Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	6,199.54	180.70



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0233 Thermostatic Mixing Valves (Holby) (22 11 19 00-0203)		
22 11 19 00-0234 EA 2-1/2" Diameter, Thermostatic Mixing Valve (Holby HOLBY2500)	5,681.33	92.40
22 11 19 00-0235 Backflow Preventer Valves (22 11 19)		
22 11 19 00-0236 Double Check Valve Backflow Preventer Assemblies (22 11 19 00-0235)		
22 11 19 00-0237 Threaded Double Check Valve Assemblies (22 11 19 00-0236)		
22 11 19 00-0238 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0237)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0239 EA 1/2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	505.82	36.29
For Work In Restricted Working Space, Add	27.22	
For Owner Furnished Material, Deduct	-415.09	
22 11 19 00-0240 EA 3/4" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	597.24	51.45
For Work In Restricted Working Space, Add	38.59	
For Owner Furnished Material, Deduct	-468.60	
22 11 19 00-0241 EA 1" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	688.75	62.83
For Work In Restricted Working Space, Add	47.12	
For Owner Furnished Material, Deduct	-531.67	
22 11 19 00-0242 EA 1-1/4" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	963.90	73.12
For Work In Restricted Working Space, Add	54.84	
For Owner Furnished Material, Deduct	-781.10	
22 11 19 00-0243 EA 1-1/2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	1,193.45	83.96
For Work In Restricted Working Space, Add	62.56	
For Owner Furnished Material, Deduct	-984.92	
22 11 19 00-0244 EA 2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)	1,375.04	108.33
For Work In Restricted Working Space, Add	81.25	
For Owner Furnished Material, Deduct	-1,104.22	
22 11 19 00-0245 Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0237)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0246 EA 1/2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	624.60	36.29
For Work In Restricted Working Space, Add	27.22	
For Owner Furnished Material, Deduct	-533.87	
22 11 19 00-0247 EA 3/4" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	771.20	51.45
For Work In Restricted Working Space, Add	38.59	
For Owner Furnished Material, Deduct	-642.56	
22 11 19 00-0248 EA 1" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	902.02	62.83
For Work In Restricted Working Space, Add	47.12	
For Owner Furnished Material, Deduct	-744.94	
22 11 19 00-0249 EA 1-1/4" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	1,267.78	73.12
For Work In Restricted Working Space, Add	54.84	
For Owner Furnished Material, Deduct	-1,084.98	
22 11 19 00-0250 EA 1-1/2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	1,551.36	83.96
For Work In Restricted Working Space, Add	62.56	
For Owner Furnished Material, Deduct	-1,342.83	
22 11 19 00-0251 EA 2" Diameter, Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)	1,869.18	108.33
For Work In Restricted Working Space, Add	81.25	
For Owner Furnished Material, Deduct	-1,598.36	
22 11 19 00-0252 Flanged Double Check Valve Assemblies (22 11 19 00-0236)		
22 11 19 00-0253 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0252)		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0254 EA 2-1/2" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	6,823.63	299.28
For Work In Restricted Working Space, Add	119.72	
For Owner Furnished Material, Deduct	-6,424.58	
22 11 19 00-0255 EA 3" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	7,497.55	336.69
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-7,054.86	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0256		Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0252) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0257	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	7,476.65	299.28
		<i>For Work In Restricted Working Space, Add</i>	119.72	
		<i>For Owner Furnished Material, Deduct</i>	-7,077.60	
22 11 19 00-0258	EA	3" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY).....	8,585.91	336.69
		<i>For Work In Restricted Working Space, Add</i>	132.81	
		<i>For Owner Furnished Material, Deduct</i>	-8,143.22	
22 11 19 00-0259		Double Check Valve Assemblies With Non-Rising Stem Shut-Offs ^(22 11 19 00-0252) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0260	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	6,870.71	299.28
		<i>For Work In Restricted Working Space, Add</i>	119.71	
		<i>For Owner Furnished Material, Deduct</i>	-6,471.69	
22 11 19 00-0261	EA	3" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	5,240.19	336.69
		<i>For Work In Restricted Working Space, Add</i>	132.81	
		<i>For Owner Furnished Material, Deduct</i>	-4,797.48	
22 11 19 00-0262	EA	4" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	8,203.65	498.80
		<i>For Work In Restricted Working Space, Add</i>	199.42	
		<i>For Owner Furnished Material, Deduct</i>	-7,538.93	
22 11 19 00-0263	EA	6" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....	12,448.35	723.68
		<i>For Work In Restricted Working Space, Add</i>	392.19	
		<i>For Owner Furnished Material, Deduct</i>	-11,141.06	
22 11 19 00-0264	EA	8" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....	28,455.22	1,085.52
		<i>For Work In Restricted Working Space, Add</i>	588.38	
		<i>For Owner Furnished Material, Deduct</i>	-26,493.97	
22 11 19 00-0265	EA	10" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....	36,550.83	1,283.95
		<i>For Work In Restricted Working Space, Add</i>	700.34	
		<i>For Owner Furnished Material, Deduct</i>	-34,216.38	
22 11 19 00-0266		Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer ^(22 11 19 00-0252) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0267	EA	4" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	9,582.73	498.80
		<i>For Work In Restricted Working Space, Add</i>	199.40	
		<i>For Owner Furnished Material, Deduct</i>	-8,918.07	
22 11 19 00-0268	EA	6" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	15,914.07	723.68
		<i>For Work In Restricted Working Space, Add</i>	392.19	
		<i>For Owner Furnished Material, Deduct</i>	-14,606.78	
22 11 19 00-0269	EA	10" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	42,463.36	1,283.95
		<i>For Work In Restricted Working Space, Add</i>	700.34	
		<i>For Owner Furnished Material, Deduct</i>	-40,128.91	
22 11 19 00-0270		Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0252) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0271	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	7,297.93	299.28
		<i>For Work In Restricted Working Space, Add</i>	119.71	
		<i>For Owner Furnished Material, Deduct</i>	-6,898.91	
22 11 19 00-0272	EA	3" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	8,018.98	336.69
		<i>For Work In Restricted Working Space, Add</i>	132.81	
		<i>For Owner Furnished Material, Deduct</i>	-7,576.29	
22 11 19 00-0273	EA	4" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	8,703.91	498.80
		<i>For Work In Restricted Working Space, Add</i>	199.40	
		<i>For Owner Furnished Material, Deduct</i>	-8,039.25	
22 11 19 00-0274	EA	6" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	14,575.55	723.68
		<i>For Work In Restricted Working Space, Add</i>	392.19	
		<i>For Owner Furnished Material, Deduct</i>	-13,268.26	
22 11 19 00-0275	EA	8" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	30,221.51	1,085.52
		<i>For Work In Restricted Working Space, Add</i>	588.28	
		<i>For Owner Furnished Material, Deduct</i>	-28,260.57	
22 11 19 00-0276	EA	10" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	38,830.26	1,283.95
		<i>For Work In Restricted Working Space, Add</i>	700.34	
		<i>For Owner Furnished Material, Deduct</i>	-36,495.81	



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Plumbing Piping			22 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0277			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0252) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0278	EA		2-1/2" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,346.52	299.28
			For Work In Restricted Working Space, Add	119.71	
			For Owner Furnished Material, Deduct	-3,947.50	
22 11 19 00-0279	EA		3" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,785.17	336.69
			For Work In Restricted Working Space, Add	132.81	
			For Owner Furnished Material, Deduct	-4,342.48	
22 11 19 00-0280	EA		4" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	5,402.12	498.80
			For Work In Restricted Working Space, Add	199.40	
			For Owner Furnished Material, Deduct	-4,737.46	
22 11 19 00-0281	EA		6" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	8,714.97	723.68
			For Work In Restricted Working Space, Add	392.19	
			For Owner Furnished Material, Deduct	-7,407.68	
22 11 19 00-0282	EA		8" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	16,606.55	1,085.52
			For Work In Restricted Working Space, Add	588.28	
			For Owner Furnished Material, Deduct	-14,645.61	
22 11 19 00-0283	EA		10" Diameter, Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	18,006.29	1,283.95
			For Work In Restricted Working Space, Add	700.34	
			For Owner Furnished Material, Deduct	-15,671.84	
22 11 19 00-0284			N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0252) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0285	EA		2-1/2" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	5,747.18	299.28
			For Work In Restricted Working Space, Add	119.71	
			For Owner Furnished Material, Deduct	-5,348.16	
22 11 19 00-0286	EA		3" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	6,185.83	336.69
			For Work In Restricted Working Space, Add	132.81	
			For Owner Furnished Material, Deduct	-5,743.14	
22 11 19 00-0287	EA		4" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....	7,742.66	498.80
			For Work In Restricted Working Space, Add	199.40	
			For Owner Furnished Material, Deduct	-7,078.00	
22 11 19 00-0288	EA		6" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	12,633.15	723.68
			For Work In Restricted Working Space, Add	392.19	
			For Owner Furnished Material, Deduct	-11,325.86	
22 11 19 00-0289	EA		8" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	22,413.69	1,085.52
			For Work In Restricted Working Space, Add	588.28	
			For Owner Furnished Material, Deduct	-20,452.75	
22 11 19 00-0290	EA		10" Diameter, N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	26,672.00	1,283.95
			For Work In Restricted Working Space, Add	700.34	
			For Owner Furnished Material, Deduct	-24,337.55	
22 11 19 00-0291			Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves ^(22 11 19 00-0252) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0292	EA		2-1/2" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	4,067.94	299.28
			For Work In Restricted Working Space, Add	119.71	
			For Owner Furnished Material, Deduct	-3,668.92	
22 11 19 00-0293	EA		3" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	4,519.25	336.69
			For Work In Restricted Working Space, Add	132.81	
			For Owner Furnished Material, Deduct	-4,076.56	
22 11 19 00-0294	EA		4" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	5,148.71	498.80
			For Work In Restricted Working Space, Add	199.40	
			For Owner Furnished Material, Deduct	-4,484.05	
22 11 19 00-0295	EA		6" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	8,515.90	723.68
			For Work In Restricted Working Space, Add	392.19	
			For Owner Furnished Material, Deduct	-7,208.61	
22 11 19 00-0296	EA		8" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	16,414.70	1,085.52
			For Work In Restricted Working Space, Add	588.28	
			For Owner Furnished Material, Deduct	-14,453.76	
22 11 19 00-0297	EA		10" Diameter, Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	18,541.94	1,283.95
			For Work In Restricted Working Space, Add	700.34	
			For Owner Furnished Material, Deduct	-16,207.49	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0298		N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0252) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0299	EA	2-1/2" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	5,351.15	299.28
		For Work In Restricted Working Space, Add	119.71	
		For Owner Furnished Material, Deduct	-4,952.13	
22 11 19 00-0300	EA	3" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	5,789.79	336.69
		For Work In Restricted Working Space, Add	132.81	
		For Owner Furnished Material, Deduct	-5,347.10	
22 11 19 00-0301	EA	4" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	7,347.12	498.80
		For Work In Restricted Working Space, Add	199.40	
		For Owner Furnished Material, Deduct	-6,682.46	
22 11 19 00-0302	EA	6" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	12,211.86	723.68
		For Work In Restricted Working Space, Add	392.19	
		For Owner Furnished Material, Deduct	-10,904.57	
22 11 19 00-0303	EA	8" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	21,776.02	1,085.52
		For Work In Restricted Working Space, Add	588.28	
		For Owner Furnished Material, Deduct	-19,815.08	
22 11 19 00-0304	EA	10" Diameter, N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	26,032.46	1,283.95
		For Work In Restricted Working Space, Add	700.34	
		For Owner Furnished Material, Deduct	-23,698.01	
22 11 19 00-0305		Double Check Valve Assemblies With Butterfly Shut-Off Valves (22 11 19 00-0252) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
22 11 19 00-0306	EA	2-1/2" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	4,726.80	299.28
		For Work In Restricted Working Space, Add	119.71	
		For Owner Furnished Material, Deduct	-4,327.78	
22 11 19 00-0307	EA	3" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	5,165.45	336.69
		For Work In Restricted Working Space, Add	132.81	
		For Owner Furnished Material, Deduct	-4,722.76	
22 11 19 00-0308	EA	4" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	5,782.40	498.80
		For Work In Restricted Working Space, Add	199.40	
		For Owner Furnished Material, Deduct	-5,117.74	
22 11 19 00-0309	EA	6" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	9,104.83	723.68
		For Work In Restricted Working Space, Add	392.19	
		For Owner Furnished Material, Deduct	-7,797.54	
22 11 19 00-0310	EA	8" Diameter, Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	16,996.41	1,085.52
		For Work In Restricted Working Space, Add	588.28	
		For Owner Furnished Material, Deduct	-15,035.47	
22 11 19 00-0311		N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0252) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0312	EA	2-1/2" Diameter, N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series).....	6,127.46	299.28
		For Work In Restricted Working Space, Add	119.71	
		For Owner Furnished Material, Deduct	-5,728.44	
22 11 19 00-0313	EA	3" Diameter, N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	6,566.10	336.69
		For Work In Restricted Working Space, Add	132.81	
		For Owner Furnished Material, Deduct	-6,123.41	
22 11 19 00-0314	EA	4" Diameter, N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	8,122.94	498.80
		For Work In Restricted Working Space, Add	199.40	
		For Owner Furnished Material, Deduct	-7,458.28	
22 11 19 00-0315	EA	6" Diameter, N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	13,023.09	723.68
		For Work In Restricted Working Space, Add	392.19	
		For Owner Furnished Material, Deduct	-11,715.80	
22 11 19 00-0316	EA	8" Diameter, N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	16,996.41	1,085.52
		For Work In Restricted Working Space, Add	588.28	
		For Owner Furnished Material, Deduct	-15,035.47	
22 11 19 00-0317		Grooved Double Check Valve Assemblies (22 11 19 00-0236)		
22 11 19 00-0318		Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0317) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0319	EA	2-1/2" Diameter, Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....	4,067.94	159.62
		For Work In Restricted Working Space, Add	119.71	
		For Owner Furnished Material, Deduct	-3,668.92	
22 11 19 00-0320	EA	3" Diameter, Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....	4,519.25	177.07
		For Work In Restricted Working Space, Add	132.81	
		For Owner Furnished Material, Deduct	-4,076.56	
22 11 19 00-0321		N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0317) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0322 EA 2-1/2" Diameter, N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	5,351.15	159.62
For Work In Restricted Working Space, Add	119.71	
For Owner Furnished Material, Deduct	-4,952.13	
22 11 19 00-0323 EA 3" Diameter, N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	5,789.79	177.07
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-5,347.10	
22 11 19 00-0324 Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0325)		
22 11 19 00-0325 Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0324)		
22 11 19 00-0326 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0325)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0327 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series).....	561.33	31.42
For Work In Restricted Working Space, Add	23.56	
For Owner Furnished Material, Deduct	-482.79	
22 11 19 00-0328 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series).....	592.89	34.66
For Work In Restricted Working Space, Add	26.00	
For Owner Furnished Material, Deduct	-506.23	
22 11 19 00-0329 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series).....	690.40	36.29
For Work In Restricted Working Space, Add	27.22	
For Owner Furnished Material, Deduct	-599.67	
22 11 19 00-0330 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series).....	927.29	51.45
For Work In Restricted Working Space, Add	38.59	
For Owner Furnished Material, Deduct	-798.65	
22 11 19 00-0331 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,100.27	62.83
For Work In Restricted Working Space, Add	47.12	
For Owner Furnished Material, Deduct	-943.19	
22 11 19 00-0332 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,662.38	73.12
For Work In Restricted Working Space, Add	54.84	
For Owner Furnished Material, Deduct	-1,479.58	
22 11 19 00-0333 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,757.70	83.96
For Work In Restricted Working Space, Add	62.56	
For Owner Furnished Material, Deduct	-1,549.17	
22 11 19 00-0334 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	2,109.15	108.33
For Work In Restricted Working Space, Add	81.25	
For Owner Furnished Material, Deduct	-1,838.33	
22 11 19 00-0335 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0325)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0336 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	619.77	31.42
For Work In Restricted Working Space, Add	23.56	
For Owner Furnished Material, Deduct	-541.23	
22 11 19 00-0337 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	654.48	34.66
For Work In Restricted Working Space, Add	26.00	
For Owner Furnished Material, Deduct	-567.82	
22 11 19 00-0338 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	774.81	51.45
For Work In Restricted Working Space, Add	27.22	
For Owner Furnished Material, Deduct	-684.08	
22 11 19 00-0339 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,059.95	51.45
For Work In Restricted Working Space, Add	38.59	
For Owner Furnished Material, Deduct	-931.31	
22 11 19 00-0340 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,266.14	62.83
For Work In Restricted Working Space, Add	47.12	
For Owner Furnished Material, Deduct	-1,109.06	
22 11 19 00-0341 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,888.59	73.12
For Work In Restricted Working Space, Add	54.84	
For Owner Furnished Material, Deduct	-1,705.79	
22 11 19 00-0342 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	2,076.93	83.96
For Work In Restricted Working Space, Add	62.56	
For Owner Furnished Material, Deduct	-1,868.40	
22 11 19 00-0343 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	2,500.81	108.33
For Work In Restricted Working Space, Add	81.25	
For Owner Furnished Material, Deduct	-2,229.99	
22 11 19 00-0344 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0325)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0345 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	927.29	51.45
For Work In Restricted Working Space, Add	38.59	
For Owner Furnished Material, Deduct	-798.65	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0346	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,100.27 47.12 -943.19	62.83
22 11 19 00-0347	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,662.38 54.84 -1,479.58	73.12
22 11 19 00-0348	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,757.70 62.56 -1,549.17	83.96
22 11 19 00-0349	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,109.15 81.25 -1,838.33	108.33
22 11 19 00-0350 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).				
22 11 19 00-0351	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,059.95 38.59 -931.31	51.45
22 11 19 00-0352	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,266.14 47.12 -1,109.06	62.83
22 11 19 00-0353	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,888.59 54.84 -1,705.79	73.12
22 11 19 00-0354	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,076.93 62.56 -1,868.40	83.96
22 11 19 00-0355	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,500.81 81.25 -2,229.99	108.33
22 11 19 00-0356 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).				
22 11 19 00-0357	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,912.57 38.59 -1,783.93	51.45
22 11 19 00-0358	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,263.86 47.12 -2,106.78	62.83
22 11 19 00-0359	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,483.37 54.84 -3,300.57	73.12
22 11 19 00-0360	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,765.88 62.56 -3,557.35	83.96
22 11 19 00-0361	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,368.75 81.25 -4,097.93	108.33
22 11 19 00-0362 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).				
22 11 19 00-0363	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,575.69 38.59 -2,447.05	51.45
22 11 19 00-0364	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,061.82 47.12 -2,904.74	62.83
22 11 19 00-0365	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,667.85 54.84 -4,485.05	73.12
22 11 19 00-0366	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,099.02 62.56 -4,890.49	83.96
22 11 19 00-0367	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,056.88 81.25 -5,786.06	108.33
22 11 19 00-0368 Flanged Reduced Pressure Zone Assemblies (22 11 19 00-0324)				



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0369 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0368) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0370 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series)	6,276.20	299.28
For Work In Restricted Working Space, Add	119.72	
For Owner Furnished Material, Deduct	-5,877.15	
22 11 19 00-0371 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	7,071.95	336.69
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-6,629.26	
22 11 19 00-0372 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer (22 11 19 00-0368) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0373 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	7,481.52	299.28
For Work In Restricted Working Space, Add	119.72	
For Owner Furnished Material, Deduct	-7,082.47	
22 11 19 00-0374 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	8,472.20	336.69
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-8,029.51	
22 11 19 00-0375 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0368) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0376 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	6,737.54	299.28
For Work In Restricted Working Space, Add	119.72	
For Owner Furnished Material, Deduct	-6,338.49	
22 11 19 00-0377 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series)	7,838.67	336.69
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-7,395.98	
22 11 19 00-0378 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer (22 11 19 00-0368) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0379 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	7,481.52	299.28
For Work In Restricted Working Space, Add	119.72	
For Owner Furnished Material, Deduct	-7,082.47	
22 11 19 00-0380 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	8,472.20	336.69
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-8,029.51	
22 11 19 00-0381 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0368) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0382 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	8,305.10	299.28
For Work In Restricted Working Space, Add	119.72	
For Owner Furnished Material, Deduct	-7,906.05	
22 11 19 00-0383 EA 3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	9,610.92	336.69
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-9,168.23	
22 11 19 00-0384 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0368) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0385 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)	10,777.44	299.28
For Work In Restricted Working Space, Add	119.71	
For Owner Furnished Material, Deduct	-10,378.42	
22 11 19 00-0386 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	12,244.12	336.69
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-11,801.41	
22 11 19 00-0387 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	15,417.70	498.80
For Work In Restricted Working Space, Add	199.42	
For Owner Furnished Material, Deduct	-14,752.98	
22 11 19 00-0388 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	23,265.93	723.68
For Work In Restricted Working Space, Add	549.10	
For Owner Furnished Material, Deduct	-21,435.60	
22 11 19 00-0389 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	38,593.60	1,085.52
For Work In Restricted Working Space, Add	823.65	
For Owner Furnished Material, Deduct	-35,848.11	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0390	EA	10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	49,814.46 700.34 -47,480.01	1,283.95
22 11 19 00-0391 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer (22 11 19 00-0368) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).				
22 11 19 00-0392	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	11,614.02 119.71 -11,215.00	299.28
22 11 19 00-0393	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	13,124.54 132.81 -12,681.85	336.69
22 11 19 00-0394	EA	4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	16,767.54 199.40 -16,102.88	498.80
22 11 19 00-0395	EA	6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	25,283.73 392.19 -23,976.44	723.68
22 11 19 00-0396	EA	8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	40,945.96 588.28 -38,985.02	1,085.52
22 11 19 00-0397	EA	10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	55,573.81 700.34 -53,239.36	1,283.95
22 11 19 00-0398 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0368) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).				
22 11 19 00-0399	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	11,466.19 119.71 -11,067.17	299.28
22 11 19 00-0400	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	13,033.59 132.81 -12,590.88	336.69
22 11 19 00-0401	EA	4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	16,398.85 199.42 -15,734.13	498.80
22 11 19 00-0402	EA	6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	24,173.16 392.19 -22,865.87	723.68
22 11 19 00-0403	EA	8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	40,200.03 588.28 -38,239.09	1,085.52
22 11 19 00-0404	EA	10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	52,978.02 700.34 -50,643.57	1,283.95
22 11 19 00-0405 Double Check Detector Assemblies (22 11 19 00-0235)				
22 11 19 00-0406 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0405)				
22 11 19 00-0407 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0406) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).				
22 11 19 00-0408	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	8,602.23 132.81 -8,159.54	336.69
22 11 19 00-0409	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,013.53 199.40 -8,348.87	498.80
22 11 19 00-0410	EA	6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,148.59 392.19 -10,841.30	723.68



	Plumbing	22	
	Plumbing Piping	22 10	22
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0411 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	21,557.21	1,085.52
For Work In Restricted Working Space, Add	588.28	
For Owner Furnished Material, Deduct	-19,596.27	
22 11 19 00-0412 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	29,115.94	1,283.95
For Work In Restricted Working Space, Add	700.34	
For Owner Furnished Material, Deduct	-26,781.49	
22 11 19 00-0413 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0406)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0414 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,443.92	299.28
For Work In Restricted Working Space, Add	119.72	
For Owner Furnished Material, Deduct	-6,044.87	
22 11 19 00-0415 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,882.13	336.69
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-6,439.44	
22 11 19 00-0416 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	7,508.42	498.80
For Work In Restricted Working Space, Add	199.40	
For Owner Furnished Material, Deduct	-6,843.76	
22 11 19 00-0417 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	10,193.84	723.68
For Work In Restricted Working Space, Add	392.19	
For Owner Furnished Material, Deduct	-8,886.55	
22 11 19 00-0418 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	18,024.18	1,085.52
For Work In Restricted Working Space, Add	588.28	
For Owner Furnished Material, Deduct	-16,063.24	
22 11 19 00-0419 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	21,254.80	1,283.95
For Work In Restricted Working Space, Add	700.34	
For Owner Furnished Material, Deduct	-18,920.35	
22 11 19 00-0420 Double Check Detector Assembly With Butterfly Valves And Meter (22 11 19 00-0406)		
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0421 EA 2-1/2" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,824.28	299.28
For Work In Restricted Working Space, Add	119.72	
For Owner Furnished Material, Deduct	-6,425.23	
22 11 19 00-0422 EA 3" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	7,262.49	336.69
For Work In Restricted Working Space, Add	132.81	
For Owner Furnished Material, Deduct	-6,819.80	
22 11 19 00-0423 EA 4" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	7,888.70	498.80
For Work In Restricted Working Space, Add	199.40	
For Owner Furnished Material, Deduct	-7,224.04	
22 11 19 00-0424 EA 6" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	10,583.70	723.68
For Work In Restricted Working Space, Add	392.19	
For Owner Furnished Material, Deduct	-9,276.41	
22 11 19 00-0425 EA 8" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	17,556.43	1,085.52
For Work In Restricted Working Space, Add	588.28	
For Owner Furnished Material, Deduct	-15,595.49	
22 11 19 00-0426 Flanged Double Check Detector Assemblies Without Meter (22 11 19 00-0405)		
22 11 19 00-0427 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter (22 11 19 00-0426)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0428 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,323.83	299.28
For Work In Restricted Working Space, Add	119.72	
22 11 19 00-0429 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,762.09	336.69
For Work In Restricted Working Space, Add	132.81	
22 11 19 00-0430 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	7,388.38	498.80
For Work In Restricted Working Space, Add	199.40	
22 11 19 00-0431 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	10,073.80	723.68
For Work In Restricted Working Space, Add	392.19	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0432	EA	8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	17,904.22	1,085.52
		<i>For Work In Restricted Working Space, Add</i>	588.28	
22 11 19 00-0433	EA	10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	21,134.67	1,283.95
		<i>For Work In Restricted Working Space, Add</i>	700.34	
22 11 19 00-0434		Double Check Detector Assembly With Butterfly Valves Less Meter (22 11 19 00-0426)		
		Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0435	EA	2-1/2" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	6,704.15	299.28
		<i>For Work In Restricted Working Space, Add</i>	119.72	
22 11 19 00-0436	EA	3" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	7,142.37	336.69
		<i>For Work In Restricted Working Space, Add</i>	132.81	
22 11 19 00-0437	EA	4" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	7,768.65	498.80
		<i>For Work In Restricted Working Space, Add</i>	199.40	
22 11 19 00-0438	EA	6" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	10,463.58	723.68
		<i>For Work In Restricted Working Space, Add</i>	392.19	
22 11 19 00-0439	EA	8" Diameter, Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	18,294.08	1,085.52
		<i>For Work In Restricted Working Space, Add</i>	588.28	
22 11 19 00-0440		Backflow Preventer Accessories (22 11 19 00-0235)		
22 11 19 00-0441		Air Gap (22 11 19 00-0440)		
22 11 19 00-0442	EA	Up To 1" Diameter Air Gap For Backflow Preventer	144.32	16.93
22 11 19 00-0443	EA	1-1/4" To 2" Diameter Air Gap For Backflow Preventer	177.58	20.31
22 11 19 00-0444	EA	2-1/2" To 3" Diameter Air Gap For Backflow Preventer	332.93	27.08
22 11 19 00-0445	EA	4" To 6" Diameter Air Gap For Backflow Preventer	658.25	47.40
22 11 19 00-0446	EA	8" To 10" Diameter Air Gap For Backflow Preventer	698.88	67.70
22 11 19 00-0447		Brass Test Cocks (22 11 19 00-0440)		
22 11 19 00-0448	EA	1/8" Or 1/4" Brass Test Cock	58.74	6.77
22 11 19 00-0449		Backflow Valve Enclosures (22 11 19 00-0235)		
22 11 19 00-0450		Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0449)		
		Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0451	EA	19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,075.40	121.87
		<i>For Heated Enclosure, Add</i>	265.61	
22 11 19 00-0452	EA	27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,570.86	121.87
		<i>For Heated Enclosure, Add</i>	339.93	
22 11 19 00-0453	EA	27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,287.81	112.23
		<i>For Heated Enclosure, Add</i>	451.09	
22 11 19 00-0454	EA	33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,394.27	149.64
		<i>For Heated Enclosure, Add</i>	453.03	
22 11 19 00-0455	EA	39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,562.29	149.64
		<i>For Heated Enclosure, Add</i>	478.23	
22 11 19 00-0456	EA	47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,217.17	149.64
		<i>For Heated Enclosure, Add</i>	576.46	
22 11 19 00-0457	EA	39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,234.40	149.64
		<i>For Heated Enclosure, Add</i>	579.05	
22 11 19 00-0458	EA	47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	5,350.27	149.64
		<i>For Heated Enclosure, Add</i>	746.43	
22 11 19 00-0459	EA	70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	12,404.87	224.46
		<i>For Heated Enclosure, Add</i>	1,776.56	
22 11 19 00-0460	EA	83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	18,035.91	224.46
		<i>For Heated Enclosure, Add</i>	2,621.21	
22 11 19 00-0461	EA	70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	17,131.15	224.46
		<i>For Heated Enclosure, Add</i>	2,485.50	
22 11 19 00-0462	EA	83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	20,632.59	261.87
		<i>For Heated Enclosure, Add</i>	2,996.69	
22 11 19 00-0463		One-Piece Drop Over, Insulated Fiberglass Valve Enclosures (22 11 19 00-0449)		
		Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0464	EA	20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,131.26	32.50
		<i>For Heated Enclosure, Add</i>	215.42	
22 11 19 00-0465	EA	27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,587.95	32.50
		<i>For Heated Enclosure, Add</i>	306.76	
22 11 19 00-0466	EA	38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,005.88	29.93
		<i>For Heated Enclosure, Add</i>	391.20	
22 11 19 00-0467	EA	47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	3,048.51	29.93
		<i>For Heated Enclosure, Add</i>	599.73	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0468	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	7,917.53	56.12
			For Heated Enclosure, Add	1,564.80	
22 11 19 00-0469	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	10,834.30	56.12
			For Heated Enclosure, Add	2,148.15	
22 11 19 00-0470	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	7,193.72	56.12
			For Heated Enclosure, Add	1,420.04	
22 11 19 00-0471	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	8,150.18	56.12
			For Heated Enclosure, Add	1,611.33	
22 11 19 00-0472	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	12,790.30	56.12
			For Heated Enclosure, Add	2,539.35	
22 11 19 00-0473 Sectional, Insulated Aluminum Valve Enclosures (22 11 19 00-0449)					
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.					
22 11 19 00-0474	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	16,122.99	224.46
			For Heated Enclosure, Add	2,334.27	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0475	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	17,790.33	224.46
			For Heated Enclosure, Add	2,584.38	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0476	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	12,607.36	224.46
			For Heated Enclosure, Add	1,806.93	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0477	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	13,839.56	224.46
			For Heated Enclosure, Add	1,991.76	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0478	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	16,081.69	299.28
			For Heated Enclosure, Add	2,300.02	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0479	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	18,054.92	299.28
			For Heated Enclosure, Add	2,596.01	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0480	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	18,054.92	299.28
			For Heated Enclosure, Add	2,596.01	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0481	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	19,967.84	299.28
			For Heated Enclosure, Add	2,882.95	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0482	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	14,971.39	261.87
			For Heated Enclosure, Add	2,147.51	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0483	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	17,533.61	299.28
			For Heated Enclosure, Add	2,517.81	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0484	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	20,519.31	299.28
			For Heated Enclosure, Add	2,965.67	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0485	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	22,530.69	317.99
			For Heated Enclosure, Add	3,260.36	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0486	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	23,026.15	317.99
			For Heated Enclosure, Add	3,334.68	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0487	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	25,537.31	336.69
			For Heated Enclosure, Add	3,704.34	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0488	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure	26,523.92	336.69
			For Heated Enclosure, Add	3,852.33	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0489	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	19,226.80	299.28
			For Heated Enclosure, Add	2,771.79	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0490	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure	20,506.38	299.28
			For Heated Enclosure, Add	2,963.73	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	
22 11 19 00-0491	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	23,215.72	317.99
			For Heated Enclosure, Add	3,363.11	
			For One 24" Fluorescent Light Fixture, Add	873.13	
			For Two 24" Fluorescent Light Fixture, Add	1,562.45	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0492	EA	72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	28,165.41 4,098.55 873.13 1,562.45	336.69
22 11 19 00-0493	EA	118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	24,550.69 3,556.34 873.13 1,562.45	336.69
22 11 19 00-0494	EA	142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	29,530.53 4,296.31 873.13 1,562.45	355.40
22 11 19 00-0495	EA	118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	28,543.92 4,148.31 873.13 1,562.45	355.40
22 11 19 00-0496	EA	142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	33,084.32 4,822.36 873.13 1,562.45	374.10
22 11 19 00-0497	EA	142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	30,563.92 4,444.30 873.13 1,562.45	374.10
22 11 19 00-0498	EA	172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	35,690.25 5,206.23 873.13 1,562.45	392.81
22 11 19 00-0499	EA	142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	35,737.01 5,206.23 873.13 1,562.45	411.51
22 11 19 00-0500	EA	172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	42,397.13 6,198.24 873.13 1,562.45	430.22
22 11 19 00-0501		Faucets (Hose Bibbs) (22 11 19)		
22 11 19 00-0502		Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0501)		
22 11 19 00-0503	EA	1/2" Diameter, 125 Lb., Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	72.36	13.54
22 11 19 00-0504	EA	3/4" Diameter, 125 Lb., Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	83.73	14.89
22 11 19 00-0505	EA	3/4" Screwed Ends Vacuum Breaker (Mueller 108-904NL)	21.44	10.16
22 11 19 00-0506		Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0501)		
22 11 19 00-0507	EA	3/4" Diameter, Hose Valve With Screwed Ends (Chicago Faucets #387-CP)	237.21	41.43
22 11 19 00-0508		Antisiphon Freezeless Wall Faucet (Woodford 19CP) (22 11 19 00-0501)		
22 11 19 00-0509	EA	4" Long, 1/2" Antisiphon Freezeless Wall Faucet	151.68	33.86
22 11 19 00-0510	EA	6" Long, 1/2" Antisiphon Freezeless Wall Faucet	164.82	37.51
22 11 19 00-0511	EA	8" Long, 1/2" Antisiphon Freezeless Wall Faucet	174.55	39.68
22 11 19 00-0512	EA	10" Long, 1/2" Antisiphon Freezeless Wall Faucet	184.28	42.51
22 11 19 00-0513	EA	12" Long, 1/2" Antisiphon Freezeless Wall Faucet	194.16	45.10
22 11 19 00-0514		Keyed, Recessed Valve Boxes (22 11 19)		
22 11 19 00-0515	EA	8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box	416.51	40.40
22 11 19 00-0516	EA	8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box	464.48	40.40
22 11 19 00-0517	EA	8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box	536.42	40.40
22 11 19 00-0518	EA	12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box	515.38	53.86
22 11 19 00-0519	EA	12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box	587.33	53.86
22 11 19 00-0520	EA	12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box	608.91	53.86
22 11 19 00-0521	EA	8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box	493.26	40.40
22 11 19 00-0522	EA	8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box	598.78	40.40
22 11 19 00-0523	EA	8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box	692.31	40.40
22 11 19 00-0524	EA	12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box	649.68	53.86
22 11 19 00-0525	EA	12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box	743.21	53.86
22 11 19 00-0526	EA	12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box	779.18	53.86
22 11 23		Domestic Water Pumps (22 11)		
22 11 23 13		Domestic Water Packaged Booster Pumps (22 11 23)		
		Note: Includes motor starter and controls.		
22 11 23 13-0001		Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)		
22 11 23 13-0002	EA	1 HP Simplex Domestic Water Packaged Booster Pump And Tank	18,684.97	399.05
22 11 23 13-0003	EA	1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	19,297.93	536.21
22 11 23 13-0004	EA	2 HP Simplex Domestic Water Packaged Booster Pump And Tank	20,045.91	673.38
22 11 23 13-0005	EA	3 HP Simplex Domestic Water Packaged Booster Pump And Tank	20,726.38	810.56



	Plumbing	22	22
	Plumbing Piping	22 10	
	Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0006 EA 5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	22,892.05	947.73
22 11 23 13-0007 EA 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	25,395.26	1,084.90
22 11 23 13-0008 EA 10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	27,088.37	1,222.07
22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0010 EA 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank	49,750.00	1,617.89
22 11 23 13-0011 EA 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank	60,159.53	1,719.00
22 11 23 13-0012 EA 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank	70,612.09	1,820.12
22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0014 EA 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	65,914.67	1,719.00
22 11 23 13-0015 EA 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	82,398.31	1,820.12
22 11 23 13-0016 EA 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	102,663.79	2,022.36
22 11 23 13-0017 EA 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	130,411.79	2,224.59
22 11 23 13-0018 EA 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	158,159.79	2,426.83
22 11 23 13-0019 EA 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	184,353.03	2,730.18
22 11 23 13-0020 EA 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	210,546.27	3,033.53
22 11 23 13-0021 EA 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	236,739.52	3,336.90
22 11 23 13-0022 EA 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	263,185.57	3,741.36
22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)		
22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.		
22 11 23 23-0002 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)	1,216.45	224.46
22 11 23 23-0003 EA 1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	1,248.64	224.46
22 11 23 23-0004 EA 1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B)	1,306.65	228.83
22 11 23 23-0005 EA 1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B)	1,439.60	238.18
22 11 23 23-0006 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	2,575.76	247.08
22 11 23 23-0007 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	2,747.19	247.08
22 11 23 23-0008 EA 1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB)	4,103.32	272.04
22 11 23 23-0009 EA 1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB)	4,279.34	298.86
22 11 23 23-0010 EA 1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB)	5,180.13	328.82
22 11 23 23-0011 EA 1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	5,295.17	361.89
22 11 23 23-0012 EA 3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	5,790.83	397.45
22 11 23 23-0013 EA 1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	8,295.13	437.38
22 11 23 23-0014 EA 1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S)	9,554.44	458.59
22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.		
22 11 23 23-0016 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	1,266.72	224.46
22 11 23 23-0017 EA 1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36).....	2,115.13	224.46
22 11 23 23-0018 EA 1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	2,124.16	228.83
22 11 23 23-0019 EA 1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	2,160.93	233.82
22 11 23 23-0020 EA 1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	2,169.64	238.18
22 11 23 23-0021 EA 1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	2,210.74	247.08
22 11 23 23-0022 EA 1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2)	2,701.55	272.04
22 11 23 23-0023 EA 1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30).....	3,485.04	328.82
22 11 23 23-0024 EA 1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	3,671.98	361.89
22 11 23 23-0025 EA 3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	4,285.42	397.45
22 11 23 23-0026 EA 1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	5,781.24	437.38
22 11 23 23-0027 EA 1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	6,757.89	458.59
22 11 23 23-0028 EA 2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,068.50	481.69
22 11 23 23-0029 EA 3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,523.78	529.48
22 11 23 23-0030 EA 5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	7,167.23	561.55
22 11 23 23-0031 EA 7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	9,077.75	623.94
22 11 23 23-0032 EA 10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	9,630.78	748.85
22 11 23 23-0033 EA 15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	12,283.18	873.89
22 12 Facility Potable-Water Storage Tanks (22 12)		
22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)		
22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)		
22 12 19 00-0002 EA 5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	46,608.63	10,718.81
22 12 19 00-0003 EA 10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	53,020.11	10,718.81
22 12 19 00-0004 EA 20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	95,772.81	16,541.39
22 12 19 00-0005 EA 35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	123,612.44	21,437.61
22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)		
22 12 19 00-0007 EA 5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	56,107.12	10,718.81
22 12 19 00-0008 EA 10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	78,428.59	10,718.81
22 12 19 00-0009 EA 20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	116,845.57	16,541.39
22 12 19 00-0010 EA 35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	168,411.05	21,437.61

22 Plumbing**22 10 Plumbing Piping****22 12 Facility Potable-Water Storage Tanks**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)**22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)**

22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)			
22 12 23 13-0002	EA	80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	2,910.42 498.80
22 12 23 13-0003	EA	119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	3,605.69 623.50
22 12 23 13-0004	EA	140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	6,648.20 685.86
22 12 23 13-0005	EA	200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	7,352.01 748.20
22 12 23 13-0006	EA	250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	14,594.22 810.56
22 12 23 13-0007	EA	350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	12,577.92 872.91
22 12 23 13-0008	EA	400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	21,582.94 935.26
22 12 23 13-0009	EA	500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	19,891.38 997.61
22 12 23 13-0010	EA	750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	21,608.66 1,059.96
22 12 23 13-0011	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	25,744.39 1,122.31

22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)			
22 12 23 13-0013	EA	80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,491.69 498.80
22 12 23 13-0014	EA	120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	4,785.07 623.50
22 12 23 13-0015	EA	140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A).....	5,982.25 685.86
22 12 23 13-0016	EA	200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	7,393.23 748.20
22 12 23 13-0017	EA	200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A).....	6,280.61 748.20
22 12 23 13-0018	EA	250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A).....	9,708.21 810.56
22 12 23 13-0019	EA	325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A).....	10,506.84 872.91
22 12 23 13-0020	EA	350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	10,001.39 872.91
22 12 23 13-0021	EA	350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A).....	9,127.05 872.91
22 12 23 13-0022	EA	400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A).....	12,484.85 935.26
22 12 23 13-0023	EA	500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A).....	13,543.48 997.61
22 12 23 13-0024	EA	750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	15,722.50 1,059.96
22 12 23 13-0025	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A).....	29,488.23 1,122.31

22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)

22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)			
Note: Excludes excavation and backfill.			
22 12 23 26-0002	EA	100 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	800.93 280.57
		For Saddle Assembly, Add.....	893.29
22 12 23 26-0003	EA	150 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	938.18 327.34
		For Saddle Assembly, Add.....	893.29
22 12 23 26-0004	EA	200 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,112.85 374.10
		For Saddle Assembly, Add.....	1,020.60
22 12 23 26-0005	EA	300 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,354.94 420.86
		For Saddle Assembly, Add.....	1,517.35
22 12 23 26-0006	EA	335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,624.46 467.63
		For Two Tie Down Bands, Add.....	513.95
22 12 23 26-0007	EA	535 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	2,096.10 634.31
		For Two Tie Down Bands, Add.....	548.90
22 12 23 26-0008	EA	1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,128.90 740.02
		For Three Tie Down Bands, Add.....	935.68
22 12 23 26-0009	EA	1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	4,510.03 845.74
		For Three Tie Down Bands, Add.....	943.17
22 12 23 26-0010	EA	1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	5,627.00 951.46
		For Four Tie Down Bands, Add.....	1,277.52
22 12 23 26-0011	EA	2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	6,590.36 1,057.18
		For Four Tie Down Bands, Add.....	1,786.75
22 12 23 26-0012	EA	2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	9,413.62 1,162.90
		For Four Tie Down Bands, Add.....	2,345.91
22 12 23 26-0013	EA	3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	10,902.55 1,268.61
		For Four Tie Down Bands, Add.....	2,535.62
22 12 23 26-0014	EA	4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	15,657.78 1,691.49
		For Four Tie Down Bands, Add.....	2,865.13
22 12 23 26-0015	EA	5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	20,245.62 1,691.49
		For Five Tie Down Bands, Add.....	4,492.53

22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)			
22 12 23 26-0017	EA	100 Gallon Vertical Non-Pressurized Polyethylene Tank.....	875.71 374.10
22 12 23 26-0018	EA	160 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,054.16 397.48
22 12 23 26-0019	EA	210 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,157.73 420.86
22 12 23 26-0020	EA	300 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,402.30 467.63
22 12 23 26-0021	EA	405 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,599.39 561.16



Plumbing			22
Plumbing Piping			22 10
Facility Potable-Water Storage Tanks			22 12

22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 26-0022	EA		500 Gallon Vertical Non-Pressurized Polyethylene Tank	1,888.85	654.68
22 12 23 26-0023	EA		800 Gallon Vertical Non-Pressurized Polyethylene Tank	2,635.36	845.74
22 12 23 26-0024	EA		1,000 Gallon Vertical Non-Pressurized Polyethylene Tank	3,411.52	1,057.18
22 12 23 26-0025	EA		2,000 Gallon Vertical Non-Pressurized Polyethylene Tank	4,582.10	1,268.61
22 12 23 26-0026	EA		3,000 Gallon Vertical Non-Pressurized Polyethylene Tank	5,987.31	1,480.05
22 12 23 26-0027	EA		4,000 Gallon Vertical Non-Pressurized Polyethylene Tank	8,797.91	1,691.49
22 12 23 26-0028	EA		5,000 Gallon Vertical Non-Pressurized Polyethylene Tank	11,903.06	1,902.93
22 12 23 26-0029	EA		6,250 Gallon Vertical Non-Pressurized Polyethylene Tank	13,493.00	2,114.35
22 12 23 26-0030	EA		7,000 Gallon Vertical Non-Pressurized Polyethylene Tank	14,868.26	2,325.79
22 12 23 26-0031	EA		8,000 Gallon Vertical Non-Pressurized Polyethylene Tank	17,127.19	2,537.23
22 12 23 26-0032	EA		9,150 Gallon Vertical Non-Pressurized Polyethylene Tank	19,343.69	2,748.67
22 12 23 26-0033	EA		10,500 Gallon Vertical Non-Pressurized Polyethylene Tank	23,931.59	2,960.10
22 12 23 26-0034	EA		12,500 Gallon Vertical Non-Pressurized Polyethylene Tank	28,788.94	3,382.97

22 13 Facility Sanitary Sewerage (22 10)

22 13 16 Sanitary Waste and Vent Piping (22 13)

22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)

22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)

Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.

22 13 16 00-0003	LF	2" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	38.80	7.85
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
For Work In Restricted Working Space, Add			5.76	
22 13 16 00-0004	LF	3" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	55.38	11.85
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
For Work In Restricted Working Space, Add			7.82	
22 13 16 00-0005	LF	4" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	71.84	15.09
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
For Work In Restricted Working Space, Add			10.05	
22 13 16 00-0006	LF	5" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	83.56	18.21
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
For Work In Restricted Working Space, Add			10.25	
22 13 16 00-0007	LF	6" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	98.10	19.84
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
For Work In Restricted Working Space, Add			11.38	
22 13 16 00-0008	LF	8" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	155.64	28.29
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
For Work In Restricted Working Space, Add			16.02	
22 13 16 00-0009	LF	10" Diameter, Underground Bell And Spigot Cast Iron Soil Pipe Assembly.....	228.16	28.29
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.				
For Work In Restricted Working Space, Add			18.14	

22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)

Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.

22 13 16 00-0011	LF	1-1/2" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly	37.57	7.48
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Work In Restricted Working Space, Add			6.57	
22 13 16 00-0012	LF	2" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly	39.80	7.98
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Work In Restricted Working Space, Add			7.06	
22 13 16 00-0013	LF	3" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly	51.03	11.60
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Work In Restricted Working Space, Add			8.66	
22 13 16 00-0014	LF	4" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly	61.63	15.09
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Work In Restricted Working Space, Add			10.35	
22 13 16 00-0015	LF	5" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly	79.92	17.86
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Work In Restricted Working Space, Add			12.12	
22 13 16 00-0016	LF	6" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly	91.35	19.49
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Work In Restricted Working Space, Add			13.21	
22 13 16 00-0017	LF	8" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly	143.64	28.06
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.				
For Work In Restricted Working Space, Add			18.26	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0018 LF 10" Diameter, Aboveground No Hub Cast Iron Soil Pipe Assembly.....	206.67	31.87
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	21.23	
22 13 16 00-0019 Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16)		
Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020 Bell And Spigot Cast Iron Pipe (22 13 16 00-0019)		
Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021 LF 2" Diameter, Bell And Spigot Cast Iron Pipe.....	27.55	7.85
For Extra Heavy Pipe, Add	6.59	
For Above Ground Cast Iron Pipe Installation, Add	0.59	
For Work In Restricted Working Space, Add	3.56	
22 13 16 00-0022 LF 3" Diameter, Bell And Spigot Cast Iron Pipe.....	40.29	11.85
For Extra Heavy Pipe, Add	9.44	
For Above Ground Cast Iron Pipe Installation, Add	0.89	
For Work In Restricted Working Space, Add	5.35	
22 13 16 00-0023 LF 4" Diameter, Bell And Spigot Cast Iron Pipe.....	51.89	15.09
For Extra Heavy Pipe, Add	12.27	
For Above Ground Cast Iron Pipe Installation, Add	1.13	
For Work In Restricted Working Space, Add	6.80	
22 13 16 00-0024 LF 5" Diameter, Bell And Spigot Cast Iron Pipe.....	68.47	18.21
For Extra Heavy Pipe, Add	17.32	
For Above Ground Cast Iron Pipe Installation, Add	1.36	
For Work In Restricted Working Space, Add	8.17	
22 13 16 00-0025 LF 6" Diameter, Bell And Spigot Cast Iron Pipe.....	79.93	19.84
For Extra Heavy Pipe, Add	21.09	
For Above Ground Cast Iron Pipe Installation, Add	1.49	
For Work In Restricted Working Space, Add	8.91	
22 13 16 00-0026 LF 8" Diameter, Bell And Spigot Cast Iron Pipe.....	120.55	28.29
For Extra Heavy Pipe, Add	32.81	
For Above Ground Cast Iron Pipe Installation, Add	2.12	
For Work In Restricted Working Space, Add	12.73	
22 13 16 00-0027 LF 10" Diameter, Bell And Spigot Cast Iron Pipe.....	177.79	31.87
For Extra Heavy Pipe, Add	54.62	
For Above Ground Cast Iron Pipe Installation, Add	2.39	
For Work In Restricted Working Space, Add	14.33	
22 13 16 00-0028 LF 12" Diameter, Bell And Spigot Cast Iron Pipe.....	252.57	42.50
For Extra Heavy Pipe, Add	79.34	
For Above Ground Cast Iron Pipe Installation, Add	3.18	
For Work In Restricted Working Space, Add	19.10	
22 13 16 00-0029 LF 15" Diameter, Bell And Spigot Cast Iron Pipe.....	352.50	50.98
For Extra Heavy Pipe, Add	115.96	
For Above Ground Cast Iron Pipe Installation, Add	3.82	
For Work In Restricted Working Space, Add	22.92	
22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032 EA 2" Bell And Spigot Cast Iron Long Sweep.....	119.58	35.79
For Extra Heavy Fittings, Add	23.08	
For Above Ground Cast Iron Pipe Installation, Add	2.68	
For Work In Restricted Working Space, Add	16.09	
22 13 16 00-0033 EA 3" Bell And Spigot Cast Iron Long Sweep.....	201.22	45.01
For Extra Heavy Fittings, Add	46.84	
For Above Ground Cast Iron Pipe Installation, Add	3.37	
For Work In Restricted Working Space, Add	20.22	
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep.....	268.07	59.85
For Extra Heavy Fittings, Add	62.43	
For Above Ground Cast Iron Pipe Installation, Add	4.49	
For Work In Restricted Working Space, Add	26.91	
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep.....	415.78	77.03
For Extra Heavy Fittings, Add	105.11	
For Above Ground Cast Iron Pipe Installation, Add	5.77	
For Work In Restricted Working Space, Add	34.64	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep.....	819.02	99.57
For Extra Heavy Fittings, Add	234.43	
For Above Ground Cast Iron Pipe Installation, Add	7.46	
For Work In Restricted Working Space, Add	44.77	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep.....	1,119.19	122.49
For Extra Heavy Fittings, Add	327.43	
For Above Ground Cast Iron Pipe Installation, Add	9.18	
For Work In Restricted Working Space, Add	55.10	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep.....	1,714.88	170.96
For Extra Heavy Fittings, Add	510.50	
For Above Ground Cast Iron Pipe Installation, Add	12.82	
For Work In Restricted Working Space, Add	76.90	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep.....	3,177.88	238.05
For Extra Heavy Fittings, Add	987.34	
For Above Ground Cast Iron Pipe Installation, Add	17.85	
For Work In Restricted Working Space, Add	107.07	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep	102.17	35.79
For Extra Heavy Fittings, Add	16.99	
For Above Ground Cast Iron Pipe Installation, Add	2.68	
For Work In Restricted Working Space, Add	16.09	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep	172.00	45.01
For Extra Heavy Fittings, Add	36.61	
For Above Ground Cast Iron Pipe Installation, Add	3.37	
For Work In Restricted Working Space, Add	20.22	
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep	235.21	59.85
For Extra Heavy Fittings, Add	50.93	
For Above Ground Cast Iron Pipe Installation, Add	4.49	
For Work In Restricted Working Space, Add	26.91	
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep	349.72	65.48
For Extra Heavy Fittings, Add	88.06	
For Above Ground Cast Iron Pipe Installation, Add	4.91	
For Work In Restricted Working Space, Add	29.44	
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep	422.04	77.03
For Extra Heavy Fittings, Add	107.30	
For Above Ground Cast Iron Pipe Installation, Add	5.77	
For Work In Restricted Working Space, Add	34.64	
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep	693.08	99.57
For Extra Heavy Fittings, Add	190.35	
For Above Ground Cast Iron Pipe Installation, Add	7.46	
For Work In Restricted Working Space, Add	44.77	
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep	1,011.73	122.49
For Extra Heavy Fittings, Add	289.82	
For Above Ground Cast Iron Pipe Installation, Add	9.18	
For Work In Restricted Working Space, Add	55.10	
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep	1,674.80	170.96
For Extra Heavy Fittings, Add	496.47	
For Above Ground Cast Iron Pipe Installation, Add	12.82	
For Work In Restricted Working Space, Add	76.90	
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)		
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend	92.28	35.66
For Extra Heavy Fittings, Add	13.57	
For Above Ground Cast Iron Pipe Installation, Add	2.68	
For Work In Restricted Working Space, Add	16.06	
22 13 16 00-0051 EA 3" Bell And Spigot Cast Iron 1/4 Bend	137.71	40.16
For Extra Heavy Fittings, Add	27.11	
For Above Ground Cast Iron Pipe Installation, Add	3.01	
For Work In Restricted Working Space, Add	18.08	
22 13 16 00-0052 EA 4" Bell And Spigot Cast Iron 1/4 Bend	196.46	53.49
For Extra Heavy Fittings, Add	40.70	
For Above Ground Cast Iron Pipe Installation, Add	4.01	
For Work In Restricted Working Space, Add	24.05	
22 13 16 00-0053 EA 5" Bell And Spigot Cast Iron 1/4 Bend	243.79	58.48
For Extra Heavy Fittings, Add	54.66	
For Above Ground Cast Iron Pipe Installation, Add	4.38	
For Work In Restricted Working Space, Add	26.28	
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend	293.21	70.04
For Extra Heavy Fittings, Add	65.85	
For Above Ground Cast Iron Pipe Installation, Add	5.25	
For Work In Restricted Working Space, Add	31.52	
22 13 16 00-0055 EA 8" Bell And Spigot Cast Iron 1/4 Bend	604.28	91.69
For Extra Heavy Fittings, Add	163.40	
For Above Ground Cast Iron Pipe Installation, Add	6.87	
For Work In Restricted Working Space, Add	41.23	
22 13 16 00-0056 EA 10" Bell And Spigot Cast Iron 1/4 Bend	889.13	111.27
For Extra Heavy Fittings, Add	252.82	
For Above Ground Cast Iron Pipe Installation, Add	8.34	
For Work In Restricted Working Space, Add	50.04	
22 13 16 00-0057 EA 12" Bell And Spigot Cast Iron 1/4 Bend	1,170.91	131.33
For Extra Heavy Fittings, Add	340.89	
For Above Ground Cast Iron Pipe Installation, Add	9.85	
For Work In Restricted Working Space, Add	59.08	
22 13 16 00-0058 EA 15" Bell And Spigot Cast Iron 1/4 Bend	2,981.08	207.14
For Extra Heavy Fittings, Add	934.71	
For Above Ground Cast Iron Pipe Installation, Add	15.52	
For Work In Restricted Working Space, Add	93.15	
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0060 EA 2" Bell And Spigot Cast Iron 1/8 Bend	84.58	35.79
For Extra Heavy Fittings, Add	10.83	
For Above Ground Cast Iron Pipe Installation, Add	2.68	
For Work In Restricted Working Space, Add	16.09	
22 13 16 00-0061 EA 3" Bell And Spigot Cast Iron 1/8 Bend	131.27	45.01
For Extra Heavy Fittings, Add	22.35	
For Above Ground Cast Iron Pipe Installation, Add	3.37	
For Work In Restricted Working Space, Add	20.22	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0062 EA 4" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	186.61 33.92 4.49 26.91	59.85
22 13 16 00-0063 EA 5" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	231.86 42.77 5.48 32.90	73.18
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	267.89 50.93 6.12 36.72	81.59
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	528.73 127.42 8.23 49.40	109.84
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	737.93 187.16 10.16 60.96	135.50
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,188.66 323.84 13.17 79.02	175.73
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,266.74 684.69 15.52 93.15	207.14
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)		
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	149.68 10.42 6.00 35.97	79.93
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	187.03 19.52 6.56 39.38	87.54
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	246.17 25.98 8.60 51.59	114.73
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	312.54 43.28 9.44 56.66	125.94
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	391.41 58.65 11.19 67.16	149.29
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	711.60 143.81 15.04 90.22	200.57
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	993.27 228.26 17.06 102.33	227.55
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,464.43 367.21 20.76 124.58	276.97
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,262.45 628.80 23.29 139.77	310.76
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	232.39 37.48 6.27 37.59	83.55
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	283.00 44.85 7.74 46.46	103.25
22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	314.79 54.59 7.94 47.64	105.87



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0083	EA		6" x 2" Bell And Spigot Cast Iron Reducing Wye	460.42	133.76
			For Extra Heavy Fittings, Add	90.99	
			For Above Ground Cast Iron Pipe Installation, Add	10.02	
			For Work In Restricted Working Space, Add	60.14	
22 13 16 00-0084	EA		6" x 3" Bell And Spigot Cast Iron Reducing Wye	472.29	136.21
			For Extra Heavy Fittings, Add	93.81	
			For Above Ground Cast Iron Pipe Installation, Add	10.21	
			For Work In Restricted Working Space, Add	61.28	
22 13 16 00-0085	EA		6" x 4" Bell And Spigot Cast Iron Reducing Wye	494.57	145.32
			For Extra Heavy Fittings, Add	96.84	
			For Above Ground Cast Iron Pipe Installation, Add	10.89	
			For Work In Restricted Working Space, Add	65.36	
22 13 16 00-0086	EA		8" x 2" Bell And Spigot Cast Iron Reducing Wye	723.98	161.29
			For Extra Heavy Fittings, Add	168.77	
			For Above Ground Cast Iron Pipe Installation, Add	12.09	
			For Work In Restricted Working Space, Add	72.54	
22 13 16 00-0087	EA		8" x 3" Bell And Spigot Cast Iron Reducing Wye	756.46	164.39
			For Extra Heavy Fittings, Add	178.52	
			For Above Ground Cast Iron Pipe Installation, Add	12.32	
			For Work In Restricted Working Space, Add	73.92	
22 13 16 00-0088	EA		8" x 4" Bell And Spigot Cast Iron Reducing Wye	774.98	172.15
			For Extra Heavy Fittings, Add	180.90	
			For Above Ground Cast Iron Pipe Installation, Add	12.91	
			For Work In Restricted Working Space, Add	77.44	
22 13 16 00-0089	EA		8" x 6" Bell And Spigot Cast Iron Reducing Wye	914.80	191.49
			For Extra Heavy Fittings, Add	219.68	
			For Above Ground Cast Iron Pipe Installation, Add	14.36	
			For Work In Restricted Working Space, Add	86.15	
22 13 16 00-0090	EA		10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,123.86	179.43
			For Extra Heavy Fittings, Add	299.19	
			For Above Ground Cast Iron Pipe Installation, Add	13.45	
			For Work In Restricted Working Space, Add	80.71	
22 13 16 00-0091	EA		10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,169.16	187.31
			For Extra Heavy Fittings, Add	310.89	
			For Above Ground Cast Iron Pipe Installation, Add	14.05	
			For Work In Restricted Working Space, Add	84.27	
22 13 16 00-0092	EA		10" x 6" Bell And Spigot Cast Iron Reducing Wye	1,279.21	207.14
			For Extra Heavy Fittings, Add	339.05	
			For Above Ground Cast Iron Pipe Installation, Add	15.52	
			For Work In Restricted Working Space, Add	93.15	
22 13 16 00-0093	EA		10" x 8" Bell And Spigot Cast Iron Reducing Wye	1,687.39	219.67
			For Extra Heavy Fittings, Add	475.32	
			For Above Ground Cast Iron Pipe Installation, Add	16.47	
			For Work In Restricted Working Space, Add	98.80	
22 13 16 00-0094	EA		12" x 4" Bell And Spigot Cast Iron Reducing Wye	1,736.29	219.67
			For Extra Heavy Fittings, Add	492.44	
			For Above Ground Cast Iron Pipe Installation, Add	16.47	
			For Work In Restricted Working Space, Add	98.80	
22 13 16 00-0095	EA		12" x 6" Bell And Spigot Cast Iron Reducing Wye	1,807.81	238.05
			For Extra Heavy Fittings, Add	507.82	
			For Above Ground Cast Iron Pipe Installation, Add	17.85	
			For Work In Restricted Working Space, Add	107.07	
22 13 16 00-0096	EA		12" x 8" Bell And Spigot Cast Iron Reducing Wye	2,120.71	249.87
			For Extra Heavy Fittings, Add	611.16	
			For Above Ground Cast Iron Pipe Installation, Add	18.73	
			For Work In Restricted Working Space, Add	112.36	
22 13 16 00-0097	EA		12" x 10" Bell And Spigot Cast Iron Reducing Wye	2,574.48	257.27
			For Extra Heavy Fittings, Add	766.06	
			For Above Ground Cast Iron Pipe Installation, Add	19.29	
			For Work In Restricted Working Space, Add	115.72	
22 13 16 00-0098	EA		15" x 4" Bell And Spigot Cast Iron Reducing Wye	4,243.52	242.59
			For Extra Heavy Fittings, Add	1,357.94	
			For Above Ground Cast Iron Pipe Installation, Add	18.19	
			For Work In Restricted Working Space, Add	109.11	
22 13 16 00-0099	EA		15" x 6" Bell And Spigot Cast Iron Reducing Wye	4,429.48	262.53
			For Extra Heavy Fittings, Add	1,412.53	
			For Above Ground Cast Iron Pipe Installation, Add	19.68	
			For Work In Restricted Working Space, Add	118.10	
22 13 16 00-0100	EA		15" x 8" Bell And Spigot Cast Iron Reducing Wye	4,520.68	273.87
			For Extra Heavy Fittings, Add	1,438.53	
			For Above Ground Cast Iron Pipe Installation, Add	20.53	
			For Work In Restricted Working Space, Add	123.18	
22 13 16 00-0101	EA		15" x 10" Bell And Spigot Cast Iron Reducing Wye	4,626.16	283.18
			For Extra Heavy Fittings, Add	1,470.59	
			For Above Ground Cast Iron Pipe Installation, Add	21.22	
			For Work In Restricted Working Space, Add	127.34	
22 13 16 00-0102	EA		15" x 12" Bell And Spigot Cast Iron Reducing Wye	4,743.78	299.66
			For Extra Heavy Fittings, Add	1,503.09	
			For Above Ground Cast Iron Pipe Installation, Add	22.46	
			For Work In Restricted Working Space, Add	134.77	

22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0104 EA 2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	162.43 14.88 6.00 35.97	79.93
22 13 16 00-0105 EA 3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	194.89 22.27 6.56 39.38	87.54
22 13 16 00-0106 EA 4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	259.85 30.77 8.60 51.59	114.73
22 13 16 00-0107 EA 5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	357.30 55.74 9.90 59.41	132.13
22 13 16 00-0108 EA 6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	447.32 70.58 12.28 73.70	163.88
22 13 16 00-0109 EA 8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	814.68 171.82 16.19 97.13	215.97
22 13 16 00-0110 EA 10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,173.45 262.14 21.22 127.34	283.18
22 13 16 00-0111 EA 12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,572.14 359.23 27.29 163.73	364.01
22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	173.03 16.70 6.27 37.59	83.55
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	242.53 30.68 7.74 46.46	103.25
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	261.38 35.90 7.94 47.64	105.87
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	383.82 64.18 10.02 60.14	133.76
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	399.57 88.36 10.21 61.28	136.21
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	423.61 72.01 10.89 65.36	145.32
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	581.70 118.97 12.09 72.54	161.29
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	598.04 118.97 12.91 77.44	172.15
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	753.78 163.32 14.36 86.15	191.49
22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	260.95 41.16 7.17 43.00	95.65
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	378.19 69.11 9.04 54.22	120.58



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	512.23 99.23 11.44 68.62	152.51
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	972.77 220.11 17.19 103.16	229.36
22 13 16 00-0127 EA 8" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,937.18 535.77 20.32 121.93	271.12
22 13 16 00-0128 EA 10" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,563.70 738.12 22.74 136.44	303.36
22 13 16 00-0129 EA 12" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,787.27 434.53 27.29 163.73	364.01
22 13 16 00-0130 EA 15" Bell And Spigot Cast Iron Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	4,999.36 1,549.21 28.65 171.92	382.03
22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	239.00 24.29 8.48 50.88	113.10
22 13 16 00-0133 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	277.61 28.97 9.74 58.46	129.94
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	300.31 33.56 10.22 61.33	136.30
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	381.60 50.09 11.92 71.55	159.09
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	404.32 54.86 12.38 74.28	165.16
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	464.63 68.11 13.50 81.01	180.11
22 13 16 00-0138 EA 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	745.26 151.24 15.66 93.94	208.93
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	812.96 154.77 18.54 111.23	247.25
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	793.98 160.60 16.76 100.54	223.49
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	925.45 186.12 19.68 118.10	262.53
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,138.10 248.17 21.45 128.72	286.16
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,162.52 253.26 21.95 131.68	292.73
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,482.59 351.77 23.88 143.26	318.52

22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	218.79 26.41 7.17 43.00	95.65
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	294.60 35.96 9.59 57.56	127.94
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	384.41 50.61 11.99 71.94	159.99
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	832.59 156.89 19.22 115.30	256.32
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	291.22 41.74 8.60 51.59	114.73
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	345.12 52.59 9.74 58.46	129.94
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	387.35 59.69 10.84 65.04	144.66
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	765.24 167.49 14.33 86.01	191.19
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	178.81 20.58 6.00 36.00	80.06
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	203.06 25.13 6.56 39.38	87.54
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	324.27 57.19 8.04 48.26	107.25
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	465.66 101.82 8.74 52.42	116.49
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	558.61 122.19 10.48 62.85	139.72
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,193.96 321.72 13.74 82.43	183.25
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,790.98 509.55 16.76 100.54	223.49
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,667.85 795.96 19.68 118.10	262.53
22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	237.97 39.43 6.27 37.59	83.55
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	281.65 47.23 7.34 44.01	97.89



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	294.65 51.78 7.34 44.01	97.89
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	443.09 84.92 10.02 60.14	133.76
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	461.15 89.91 10.21 61.28	136.21
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	500.14 98.79 10.89 65.36	145.32
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	848.64 206.68 12.91 77.44	172.15
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,063.98 271.89 14.36 86.15	191.49
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	154.26 12.02 6.00 35.97	79.93
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	191.05 20.93 6.56 39.38	87.54
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	252.98 28.36 8.60 51.59	114.73
22 13 16 00-0177 EA 5" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	318.92 42.31 9.90 59.41	132.13
22 13 16 00-0178 EA 6" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	401.39 54.51 12.28 73.70	163.88
22 13 16 00-0179 EA 8" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	686.18 126.85 16.19 97.13	215.97
22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	158.29 13.43 6.00 35.97	79.93
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	174.65 15.19 6.56 39.38	87.54
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	225.43 18.72 8.60 51.59	114.73
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	160.83 14.32 6.00 35.97	79.93
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	179.48 16.88 6.56 39.38	87.54
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	237.56 22.96 8.60 51.59	114.73
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer	89.13	45.01
For Extra Heavy Fittings, Add	7.61	
For Above Ground Cast Iron Pipe Installation, Add	3.37	
For Work In Restricted Working Space, Add	20.22	
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer	111.80	59.36
For Extra Heavy Fittings, Add	7.95	
For Above Ground Cast Iron Pipe Installation, Add	4.45	
For Work In Restricted Working Space, Add	26.72	
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer	119.24	59.85
For Extra Heavy Fittings, Add	10.34	
For Above Ground Cast Iron Pipe Installation, Add	4.49	
For Work In Restricted Working Space, Add	26.91	
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer	149.02	70.73
For Extra Heavy Fittings, Add	15.02	
For Above Ground Cast Iron Pipe Installation, Add	5.31	
For Work In Restricted Working Space, Add	31.84	
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer	155.73	71.66
For Extra Heavy Fittings, Add	16.88	
For Above Ground Cast Iron Pipe Installation, Add	5.38	
For Work In Restricted Working Space, Add	32.25	
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer	160.67	73.18
For Extra Heavy Fittings, Add	17.85	
For Above Ground Cast Iron Pipe Installation, Add	5.48	
For Work In Restricted Working Space, Add	32.90	
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer	207.22	75.40
For Extra Heavy Fittings, Add	32.95	
For Above Ground Cast Iron Pipe Installation, Add	5.65	
For Work In Restricted Working Space, Add	33.92	
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer	234.56	93.01
For Extra Heavy Fittings, Add	33.30	
For Above Ground Cast Iron Pipe Installation, Add	6.97	
For Work In Restricted Working Space, Add	41.83	
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer	240.74	95.39
For Extra Heavy Fittings, Add	34.19	
For Above Ground Cast Iron Pipe Installation, Add	7.15	
For Work In Restricted Working Space, Add	42.92	
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer	248.70	99.57
For Extra Heavy Fittings, Add	34.81	
For Above Ground Cast Iron Pipe Installation, Add	7.46	
For Work In Restricted Working Space, Add	44.77	
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer	309.92	111.75
For Extra Heavy Fittings, Add	49.83	
For Above Ground Cast Iron Pipe Installation, Add	8.38	
For Work In Restricted Working Space, Add	50.27	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer	326.73	117.36
For Extra Heavy Fittings, Add	52.75	
For Above Ground Cast Iron Pipe Installation, Add	8.80	
For Work In Restricted Working Space, Add	52.80	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer	348.01	122.49
For Extra Heavy Fittings, Add	57.52	
For Above Ground Cast Iron Pipe Installation, Add	9.18	
For Work In Restricted Working Space, Add	55.10	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer	431.40	132.75
For Extra Heavy Fittings, Add	81.35	
For Above Ground Cast Iron Pipe Installation, Add	9.95	
For Work In Restricted Working Space, Add	59.69	
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer	481.53	155.32
For Extra Heavy Fittings, Add	87.01	
For Above Ground Cast Iron Pipe Installation, Add	11.65	
For Work In Restricted Working Space, Add	69.88	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer	521.25	176.92
For Extra Heavy Fittings, Add	89.58	
For Above Ground Cast Iron Pipe Installation, Add	13.27	
For Work In Restricted Working Space, Add	79.59	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer	571.57	203.79
For Extra Heavy Fittings, Add	93.11	
For Above Ground Cast Iron Pipe Installation, Add	15.28	
For Work In Restricted Working Space, Add	91.66	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer	743.71	203.79
For Extra Heavy Fittings, Add	153.36	
For Above Ground Cast Iron Pipe Installation, Add	15.28	
For Work In Restricted Working Space, Add	91.66	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer	791.47	219.67
For Extra Heavy Fittings, Add	161.75	
For Above Ground Cast Iron Pipe Installation, Add	16.47	
For Work In Restricted Working Space, Add	98.80	
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer	824.29	231.61
For Extra Heavy Fittings, Add	166.95	
For Above Ground Cast Iron Pipe Installation, Add	17.37	
For Work In Restricted Working Space, Add	104.19	
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer	868.74	247.25
For Extra Heavy Fittings, Add	174.29	
For Above Ground Cast Iron Pipe Installation, Add	18.54	
For Work In Restricted Working Space, Add	111.23	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap.....	90.77	35.79
For Extra Heavy Fittings, Add	13.00	
For Above Ground Cast Iron Pipe Installation, Add	2.68	
For Work In Restricted Working Space, Add	16.09	
22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap.....	121.44	45.01
For Extra Heavy Fittings, Add	18.91	
For Above Ground Cast Iron Pipe Installation, Add	3.37	
For Work In Restricted Working Space, Add	20.22	
22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap.....	165.41	59.85
For Extra Heavy Fittings, Add	26.50	
For Above Ground Cast Iron Pipe Installation, Add	4.49	
For Work In Restricted Working Space, Add	26.91	
22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap.....	260.43	65.48
For Extra Heavy Fittings, Add	56.81	
For Above Ground Cast Iron Pipe Installation, Add	4.91	
For Work In Restricted Working Space, Add	29.44	
22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap.....	349.20	77.03
For Extra Heavy Fittings, Add	81.81	
For Above Ground Cast Iron Pipe Installation, Add	5.77	
For Work In Restricted Working Space, Add	34.64	
22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap.....	773.17	99.57
For Extra Heavy Fittings, Add	218.38	
For Above Ground Cast Iron Pipe Installation, Add	7.46	
For Work In Restricted Working Space, Add	44.77	
22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap.....	857.75	122.49
For Extra Heavy Fittings, Add	235.93	
For Above Ground Cast Iron Pipe Installation, Add	9.18	
For Work In Restricted Working Space, Add	55.10	
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap.....	104.88	35.79
For Extra Heavy Fittings, Add	17.94	
For Above Ground Cast Iron Pipe Installation, Add	2.68	
For Work In Restricted Working Space, Add	16.09	
22 13 16 00-0220 EA 3" Bell And Spigot Cast Iron Deep Seal P-Trap.....	149.17	45.01
For Extra Heavy Fittings, Add	28.62	
For Above Ground Cast Iron Pipe Installation, Add	3.37	
For Work In Restricted Working Space, Add	20.22	
22 13 16 00-0221 EA 4" Bell And Spigot Cast Iron Deep Seal P-Trap.....	216.97	59.85
For Extra Heavy Fittings, Add	44.54	
For Above Ground Cast Iron Pipe Installation, Add	4.49	
For Work In Restricted Working Space, Add	26.91	
22 13 16 00-0222 EA 5" Bell And Spigot Cast Iron Deep Seal P-Trap.....	353.49	73.18
For Extra Heavy Fittings, Add	85.34	
For Above Ground Cast Iron Pipe Installation, Add	5.48	
For Work In Restricted Working Space, Add	32.90	
22 13 16 00-0223 EA 6" Bell And Spigot Cast Iron Deep Seal P-Trap.....	375.31	81.59
For Extra Heavy Fittings, Add	88.52	
For Above Ground Cast Iron Pipe Installation, Add	6.12	
For Work In Restricted Working Space, Add	36.72	
22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)		
22 13 16 00-0225 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent.....	242.19	86.42
For Above Ground Cast Iron Pipe Installation, Add	6.56	
For Work In Restricted Working Space, Add	39.38	
22 13 16 00-0226 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....	322.96	113.61
For Above Ground Cast Iron Pipe Installation, Add	8.60	
For Work In Restricted Working Space, Add	51.59	
22 13 16 00-0227 EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....	432.60	127.11
For Above Ground Cast Iron Pipe Installation, Add	9.61	
For Work In Restricted Working Space, Add	57.65	
22 13 16 00-0228 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....	865.10	144.04
For Above Ground Cast Iron Pipe Installation, Add	10.89	
For Work In Restricted Working Space, Add	65.36	
22 13 16 00-0229 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent.....	2,827.61	170.24
For Above Ground Cast Iron Pipe Installation, Add	12.91	
For Work In Restricted Working Space, Add	77.44	
22 13 16 00-0230 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent.....	3,061.80	189.94
For Above Ground Cast Iron Pipe Installation, Add	14.36	
For Work In Restricted Working Space, Add	86.15	
22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent.....	310.34	119.34
For Above Ground Cast Iron Pipe Installation, Add	9.04	
For Work In Restricted Working Space, Add	54.22	
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	423.15	150.63
For Above Ground Cast Iron Pipe Installation, Add	11.44	
For Work In Restricted Working Space, Add	68.62	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent	965.04	178.00
For Above Ground Cast Iron Pipe Installation, Add	13.50	
For Work In Restricted Working Space, Add	81.01	
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent	1,119.63	215.47
For Above Ground Cast Iron Pipe Installation, Add	16.33	
For Work In Restricted Working Space, Add	97.95	
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent	3,046.46	206.42
For Above Ground Cast Iron Pipe Installation, Add	15.66	
For Work In Restricted Working Space, Add	93.94	
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent	3,343.69	245.09
For Above Ground Cast Iron Pipe Installation, Add	18.54	
For Work In Restricted Working Space, Add	111.23	
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent	4,445.55	282.82
For Above Ground Cast Iron Pipe Installation, Add	21.45	
For Work In Restricted Working Space, Add	128.72	
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent	6,150.49	326.99
For Above Ground Cast Iron Pipe Installation, Add	24.77	
For Work In Restricted Working Space, Add	148.61	
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent	11,962.83	378.21
For Above Ground Cast Iron Pipe Installation, Add	28.66	
For Work In Restricted Working Space, Add	171.98	
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting	186.06	
For Above Ground Cast Iron Pipe Installation, Add	2.68	
For Work In Restricted Working Space, Add	16.05	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting	256.23	
For Above Ground Cast Iron Pipe Installation, Add	3.01	
For Work In Restricted Working Space, Add	18.03	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting	296.23	
For Above Ground Cast Iron Pipe Installation, Add	4.03	
For Work In Restricted Working Space, Add	24.16	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting	365.63	
For Above Ground Cast Iron Pipe Installation, Add	4.68	
For Work In Restricted Working Space, Add	28.06	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting	444.01	
For Above Ground Cast Iron Pipe Installation, Add	5.65	
For Work In Restricted Working Space, Add	33.90	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting	838.94	
For Above Ground Cast Iron Pipe Installation, Add	7.14	
For Work In Restricted Working Space, Add	42.84	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA Cut And Prepare, Existing In-Place 2" Diameter Cast Iron Pipe	14.89	
For Above Ground Cast Iron Pipe Installation, Add	0.74	
For Work In Restricted Working Space, Add	4.47	
22 13 16 00-0250 EA Cut And Prepare, Existing In-Place 3" Diameter Cast Iron Pipe	16.25	
For Above Ground Cast Iron Pipe Installation, Add	0.81	
For Work In Restricted Working Space, Add	4.88	
22 13 16 00-0251 EA Cut And Prepare, Existing In-Place 4" Diameter Cast Iron Pipe	20.31	
For Above Ground Cast Iron Pipe Installation, Add	1.02	
For Work In Restricted Working Space, Add	6.09	
22 13 16 00-0252 EA Cut And Prepare, Existing In-Place 6" Diameter Cast Iron Pipe	24.37	
For Above Ground Cast Iron Pipe Installation, Add	1.22	
For Work In Restricted Working Space, Add	7.31	
22 13 16 00-0253 EA Cut And Prepare, Existing In-Place 8" Diameter Cast Iron Pipe	32.50	
For Above Ground Cast Iron Pipe Installation, Add	1.63	
For Work In Restricted Working Space, Add	9.75	
22 13 16 00-0254 EA Cut And Prepare, Existing In-Place 10" Diameter Cast Iron Pipe	37.91	
For Above Ground Cast Iron Pipe Installation, Add	1.90	
For Work In Restricted Working Space, Add	11.37	
22 13 16 00-0255 EA Cut And Prepare, Existing In-Place 12" Diameter Cast Iron Pipe	44.68	
For Above Ground Cast Iron Pipe Installation, Add	2.23	
For Work In Restricted Working Space, Add	13.40	
22 13 16 00-0256 EA Cut And Prepare, Existing In-Place 15" Diameter Cast Iron Pipe	51.45	
For Above Ground Cast Iron Pipe Installation, Add	2.57	
For Work In Restricted Working Space, Add	15.44	
22 13 16 00-0257 Joint Material (22 13 16 00-0019)		
Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 Lb./Diameter Inch) Joint Material	6.88	
22 13 16 00-0259 LB Oakum (1/8 Lb./Diameter Inch) Joint Material	13.81	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket	3.32	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket	4.55	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket	5.65	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket	9.38	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket	20.69	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket	31.72	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket	40.41	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket	47.99	



	Plumbing	22	
	Plumbing Piping	22 10	22
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service Weight. Excludes hangers.		
22 13 16 00-0269 No Hub Cast Iron Pipe (22 13 16 00-0268) Note: Excludes couplings.		
22 13 16 00-0270 LF 1-1/2" Diameter, No Hub Cast Iron Pipe 21.87		7.48
For Below Ground Installation, Add	0.56	
For Work In Restricted Working Space, Add	3.37	
22 13 16 00-0271 LF 2" Diameter, No Hub Cast Iron Pipe 23.20		7.98
For Below Ground Installation, Add	0.60	
For Work In Restricted Working Space, Add	3.62	
22 13 16 00-0272 LF 3" Diameter, No Hub Cast Iron Pipe 32.88		11.60
For Below Ground Installation, Add	0.87	
For Work In Restricted Working Space, Add	5.23	
22 13 16 00-0273 LF 4" Diameter, No Hub Cast Iron Pipe 42.67		15.09
For Below Ground Installation, Add	1.13	
For Work In Restricted Working Space, Add	6.80	
22 13 16 00-0274 LF 5" Diameter, No Hub Cast Iron Pipe 54.64		17.86
For Below Ground Installation, Add	1.34	
For Work In Restricted Working Space, Add	8.04	
22 13 16 00-0275 LF 6" Diameter, No Hub Cast Iron Pipe 63.64		19.49
For Below Ground Installation, Add	1.46	
For Work In Restricted Working Space, Add	8.76	
22 13 16 00-0276 LF 8" Diameter, No Hub Cast Iron Pipe 97.16		28.06
For Below Ground Installation, Add	2.10	
For Work In Restricted Working Space, Add	12.59	
22 13 16 00-0277 LF 10" Diameter, No Hub Cast Iron Pipe 139.23		31.87
For Below Ground Installation, Add	2.39	
For Work In Restricted Working Space, Add	14.33	
22 13 16 00-0278 No Hub Cast Iron Fittings (22 13 16 00-0268)		
22 13 16 00-0279 No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep 78.12		33.92
For Below Ground Installation, Add	2.54	
For Work In Restricted Working Space, Add	15.27	
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep 80.97		35.41
For Below Ground Installation, Add	2.65	
For Work In Restricted Working Space, Add	15.92	
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep 95.80		40.53
For Below Ground Installation, Add	3.04	
For Work In Restricted Working Space, Add	18.25	
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep 132.58		53.62
For Below Ground Installation, Add	4.02	
For Work In Restricted Working Space, Add	24.14	
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep 184.30		58.95
For Below Ground Installation, Add	4.42	
For Work In Restricted Working Space, Add	26.50	
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep 218.55		70.27
For Below Ground Installation, Add	5.27	
For Work In Restricted Working Space, Add	31.63	
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep 445.72		90.97
For Below Ground Installation, Add	6.82	
For Work In Restricted Working Space, Add	40.93	
22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep 124.61		40.53
For Below Ground Installation, Add	3.04	
For Work In Restricted Working Space, Add	18.25	
22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep 187.49		53.62
For Below Ground Installation, Add	4.02	
For Work In Restricted Working Space, Add	24.14	
22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep 75.18		35.41
For Below Ground Installation, Add	2.65	
For Work In Restricted Working Space, Add	15.92	
22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep 91.22		40.53
For Below Ground Installation, Add	3.04	
For Work In Restricted Working Space, Add	18.25	
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep 130.18		53.62
For Below Ground Installation, Add	4.02	
For Work In Restricted Working Space, Add	24.14	
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep 185.20		58.95
For Below Ground Installation, Add	4.42	
For Work In Restricted Working Space, Add	26.50	
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep 204.49		70.27
For Below Ground Installation, Add	5.27	
For Work In Restricted Working Space, Add	31.63	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	403.22 6.82 40.93	90.97
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	660.27 9.55 57.30	127.38
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	68.05 2.55 15.27	33.92
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	71.20 2.65 15.92	35.41
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	84.75 3.04 18.25	40.53
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	115.89 4.02 24.14	53.62
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	167.45 4.42 26.50	58.95
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	193.13 5.27 31.63	70.27
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	370.13 6.82 40.93	90.97
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	64.36 2.55 15.27	33.92
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	66.83 2.65 15.92	35.41
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	80.46 3.04 18.25	40.53
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	106.26 4.02 24.14	53.62
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	177.66 5.94 35.63	79.18
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	312.61 7.79 46.76	104.00
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	487.51 9.59 57.56	127.94
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	103.86 4.00 23.98	53.37
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	132.66 5.42 32.53	72.33
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	151.86 5.94 35.63	79.18
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	209.57 7.79 46.76	104.00
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	288.21 8.60 51.60	114.74
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	341.99 10.21 61.28	136.21
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	596.45 13.64 81.86	182.06
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	1,003.81 15.16 90.96	202.23
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		



	Plumbing	22	
	Plumbing Piping	22 10	22
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	129.58 5.17 31.04	69.09
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	144.87 5.94 35.63	79.18
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	164.65 6.56 39.38	87.54
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	190.60 7.29 43.76	97.26
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	248.08 8.69 52.15	115.90
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	265.28 9.08 54.47	121.16
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	303.90 10.61 63.67	141.59
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	399.88 10.73 64.39	143.14
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	464.62 11.79 70.75	157.34
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	735.86 12.57 75.40	167.61
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	775.98 13.45 80.71	179.43
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	896.02 14.36 86.17	191.61
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	117.28 4.65 27.92	62.10
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	133.64 5.42 32.53	72.33
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	159.23 5.94 35.63	79.18
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	230.41 7.79 46.76	104.00
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	427.47 11.99 71.94	159.99
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	778.58 15.39 92.33	205.26
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	912.65 18.60 111.61	248.16
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	134.84 5.42 32.53	72.33
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	148.55 5.94 35.63	79.18
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	172.03 6.56 39.38	87.54
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	197.75 7.29 43.76	97.26
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	269.51 8.69 52.15	115.90
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	302.74 9.08 54.47	121.16
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	336.70 10.61 63.67	141.59

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	461.18 10.73 64.39	143.14
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	604.74 11.79 70.75	157.34
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.59 6.74 40.45	89.91
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	226.36 8.20 49.22	109.49
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	307.58 8.97 53.83	119.71
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	478.17 12.87 77.20	171.69
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	945.32 17.37 104.19	231.61
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	202.74 7.47 44.80	99.64
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.75 8.60 51.60	114.73
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	268.45 9.38 56.26	125.07
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	406.04 11.35 68.09	151.39
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.14 8.10 48.59	107.99
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.10 8.97 53.83	119.71
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	412.63 11.88 71.26	158.50
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	571.19 18.34 110.03	244.67
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.00 6.97 41.80	92.90
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	241.08 8.10 48.59	107.99
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	291.88 8.84 53.06	117.97
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.14 3.92 23.53	52.25
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.86 5.42 32.53	72.33
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.16 5.94 35.63	79.18
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	203.41 7.79 46.76	104.00



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0379	EA		5" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	289.49 8.60 51.60	114.74
22 13 16 00-0380	EA		6" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	341.08 10.21 61.28	136.21
22 13 16 00-0381	EA		8" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	672.49 13.64 81.86	182.06
22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees (22 13 16 00-0278)					
22 13 16 00-0383	EA		2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.86 4.42 26.53	58.98
22 13 16 00-0384	EA		3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.69 5.17 31.04	69.09
22 13 16 00-0385	EA		3" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.65 5.42 32.53	72.33
22 13 16 00-0386	EA		3" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	165.75 5.42 32.53	72.33
22 13 16 00-0387	EA		4" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	182.89 7.34 44.01	97.89
22 13 16 00-0388	EA		4" x 3" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	189.96 7.34 44.01	97.89
22 13 16 00-0389	EA		5" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.42 8.17 49.02	109.02
22 13 16 00-0390	EA		5" x 3" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	257.28 8.17 49.02	109.02
22 13 16 00-0391	EA		5" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.48 8.17 49.02	109.02
22 13 16 00-0392	EA		6" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	268.07 8.51 51.07	113.57
22 13 16 00-0393	EA		8" x 6" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	527.91 11.51 69.04	153.53
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)					
22 13 16 00-0395	EA		2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.57 2.65 15.92	35.41
22 13 16 00-0396	EA		3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.44 3.04 18.25	40.53
22 13 16 00-0397	EA		4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.75 4.02 24.14	53.62
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0399	EA		2" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.13 2.65 15.92	35.41
22 13 16 00-0400	EA		3" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	94.68 3.04 18.25	40.53
22 13 16 00-0401	EA		4" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.95 4.02 24.14	53.62
22 13 16 00-0402	EA		6" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.82 5.94 35.63	79.18
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0404	EA		4" No Hub Cast Iron Single Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.75 7.79 46.76	104.00
22 13 16 00-0405	EA		4" No Hub Cast Iron Double Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	394.68 11.85 71.08	157.99
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)					

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.02 2.65 15.92	35.41
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.90 3.04 18.25	40.53
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	107.16 4.02 24.14	53.62
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.64 5.94 35.63	79.18
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	224.39 7.79 46.76	104.00
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.48 5.24 31.44	69.84
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.80 5.42 32.53	72.33
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	179.17 5.94 35.63	79.18
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	269.37 7.79 46.76	104.00
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.61 6.97 41.79	92.90
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	220.12 7.17 43.02	95.65
22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	242.26 7.48 44.90	99.89
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)		
22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.30 5.42 32.53	72.33
22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.34 7.34 44.01	97.89
22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.94 7.34 44.01	97.89
22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	192.22 8.17 49.02	109.02
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.20 8.17 49.02	109.02
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	197.78 8.17 49.02	109.02
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	231.29 9.08 54.47	121.16
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	231.89 9.08 54.47	121.16
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.69 9.08 54.47	121.16
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	320.95 12.73 76.41	169.89
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.54 12.73 76.41	169.89
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	332.91 12.73 76.41	169.89
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	340.58 12.73 76.41	169.89



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	341.49 12.73 76.41	169.89
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	410.91 13.43 80.58	179.20
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	440.01 14.03 84.17	187.07
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	495.48 15.22 91.33	203.07
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	32.82 1.27 7.64	16.97
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	33.61 1.33 7.96	17.71
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	42.98 1.52 9.13	20.33
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	57.04 2.01 12.06	26.81
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	76.23 2.25 13.48	29.99
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	84.35 2.64 15.83	35.13
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	167.83 3.41 20.45	45.49
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	216.71 3.67 22.03	48.94
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	79.17 2.65 15.92	35.41
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	120.32 3.04 18.25	40.53
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	183.80 4.02 24.14	53.62
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	325.49 4.45 26.71	59.41
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	342.92 5.31 31.87	70.86
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)		
22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap For Below Ground Installation, Add For Work In Restricted Working Space, Add	129.68 3.37 20.22	45.01
22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap For Below Ground Installation, Add For Work In Restricted Working Space, Add	189.07 4.49 26.91	59.85
22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap For Below Ground Installation, Add For Work In Restricted Working Space, Add	277.91 5.92 35.54	79.06
22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)		
22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	121.83 4.02 24.14	53.62
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	130.41 4.02 24.14	53.62
22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	242.39 4.02 24.14	53.62



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 16 00-0463 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)			
22 13 16 00-0464	EA	1-1/4" No Hub Cast Iron Threaded Adapter.....	89.81
		<i>For Below Ground Installation, Add</i>	3.37
		<i>For Work In Restricted Working Space, Add</i>	20.22
22 13 16 00-0465	EA	1-1/2" No Hub Cast Iron Threaded Adapter.....	96.73
		<i>For Below Ground Installation, Add</i>	3.37
		<i>For Work In Restricted Working Space, Add</i>	20.22
22 13 16 00-0466 No Hub Couplings (22 13 16 00-0278)			
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH). Labor costs are included in the installation costs for fittings.			
22 13 16 00-0467	EA	1-1/2" No Hub Coupling.....	7.47
		<i>For Medium Duty (Fernco MD-2000), Add</i>	0.97
		<i>For Heavy-Duty (Fernco HD-4000), Add</i>	2.02
22 13 16 00-0468	EA	2" No Hub Coupling.....	7.47
		<i>For Medium Duty (Fernco MD-2000), Add</i>	0.97
		<i>For Heavy-Duty (Fernco HD-4000), Add</i>	2.02
22 13 16 00-0469	EA	3" No Hub Coupling.....	8.87
		<i>For Medium Duty (Fernco MD-2000), Add</i>	1.15
		<i>For Heavy-Duty (Fernco HD-4000), Add</i>	2.39
22 13 16 00-0470	EA	4" No Hub Coupling.....	10.53
		<i>For Medium Duty (Fernco MD-2000), Add</i>	1.37
		<i>For Heavy-Duty (Fernco HD-4000), Add</i>	2.84
22 13 16 00-0471	EA	5" No Hub Coupling.....	24.36
		<i>For Medium Duty (Fernco MD-2000), Add</i>	3.17
		<i>For Heavy-Duty (Fernco HD-4000), Add</i>	6.58
22 13 16 00-0472	EA	6" No Hub Coupling.....	26.76
		<i>For Medium Duty (Fernco MD-2000), Add</i>	3.48
		<i>For Heavy-Duty (Fernco HD-4000), Add</i>	7.23
22 13 16 00-0473	EA	8" No Hub Coupling.....	50.42
		<i>For Medium Duty (Fernco MD-2000), Add</i>	6.55
		<i>For Heavy-Duty (Fernco HD-4000), Add</i>	13.61
22 13 16 00-0474	EA	10" No Hub Coupling.....	69.46
		<i>For Medium Duty (Fernco MD-2000), Add</i>	9.03
		<i>For Heavy-Duty (Fernco HD-4000), Add</i>	18.75
22 13 16 00-0475	EA	2" x 1-1/2" No Hub Reducing Coupling.....	8.87
22 13 16 00-0476	EA	3" x 2" No Hub Reducing Coupling.....	13.76
22 13 16 00-0477	EA	4" x 2" No Hub Reducing Coupling.....	19.20
22 13 16 00-0478	EA	4" x 3" No Hub Reducing Coupling.....	16.36
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts (22 13 16 00-0278)			
Note: For underground connections. Labor costs are included in the installation costs for fittings. See CSI section 22 13 16 00-0870 for additional FERNCO couplings.			
22 13 16 00-0480	EA	1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	49.55
22 13 16 00-0481	EA	2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	51.14
22 13 16 00-0482	EA	3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	53.70
22 13 16 00-0483	EA	4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	62.65
22 13 16 00-0484	EA	5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	118.27
22 13 16 00-0485	EA	6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	162.38
22 13 16 00-0486	EA	8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	284.49
22 13 16 00-0487	EA	10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	434.73
22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place (22 13 16 00-0268)			
Note: For use when connecting pipe to an existing in-place system.			
22 13 16 00-0489	EA	Cut And Prepare, Existing In-Place 1-1/2" Diameter Cast Iron Pipe, No Hub.....	12.19
		<i>For Work In Restricted Working Space, Add</i>	3.66
22 13 16 00-0490	EA	Cut And Prepare, Existing In-Place 2" Diameter Cast Iron Pipe, No Hub.....	14.89
		<i>For Work In Restricted Working Space, Add</i>	4.47
22 13 16 00-0491	EA	Cut And Prepare, Existing In-Place 3" Diameter Cast Iron Pipe, No Hub.....	16.25
		<i>For Work In Restricted Working Space, Add</i>	4.88
22 13 16 00-0492	EA	Cut And Prepare, Existing In-Place 4" Diameter Cast Iron Pipe, No Hub.....	20.31
		<i>For Work In Restricted Working Space, Add</i>	6.09
22 13 16 00-0493	EA	Cut And Prepare, Existing In-Place 6" Diameter Cast Iron Pipe, No Hub.....	24.37
		<i>For Work In Restricted Working Space, Add</i>	7.31
22 13 16 00-0494	EA	Cut And Prepare, Existing In-Place 8" Diameter Cast Iron Pipe, No Hub.....	32.50
		<i>For Work In Restricted Working Space, Add</i>	9.75
22 13 16 00-0495	EA	Cut And Prepare, Existing In-Place 10" Diameter Cast Iron Pipe, No Hub.....	37.91
		<i>For Work In Restricted Working Space, Add</i>	11.37
22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe (22 13 16)			
See CSI section 22 11 16 00-0458 for copper and brass fittings.			
22 13 16 00-0497	LF	1-1/4" Diameter, Hard Drawn DWV Copper Tube/Pipe.....	20.82
22 13 16 00-0498	LF	1-1/2" Diameter, Hard Drawn DWV Copper Tube/Pipe.....	24.90
22 13 16 00-0499	LF	2" Diameter, Hard Drawn DWV Copper Tube/Pipe.....	32.13
22 13 16 00-0500	LF	3" Diameter, Hard Drawn DWV Copper Tube/Pipe.....	68.43
22 13 16 00-0501	LF	4" Diameter, Hard Drawn DWV Copper Tube/Pipe.....	96.49
22 13 16 00-0502	LF	5" Diameter, Hard Drawn DWV Copper Tube/Pipe.....	192.73



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0503	LF	6" Diameter, Hard Drawn DWV Copper Tube/Pipe	274.34	22.46
22 13 16 00-0504		Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation. See CSI section 33 31 11 00-0019 for underground installation.		
22 13 16 00-0505		Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0504)		
22 13 16 00-0506		Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0505) Note: Includes all fittings. Fittings are assumed every 20'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0507	LF	1-1/2" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	14.49	
		Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	2.92	
22 13 16 00-0508	LF	2" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	17.31	
		Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	3.56	
22 13 16 00-0509	LF	3" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	28.50	
		Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	5.03	
22 13 16 00-0510	LF	4" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	36.98	
		Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	5.54	
22 13 16 00-0511	LF	6" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	68.14	
		Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	7.13	
22 13 16 00-0512	LF	8" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	97.44	
		Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	9.53	
22 13 16 00-0513	LF	10" Diameter, Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	141.22	
		Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	12.71	
22 13 16 00-0514		Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0505) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0515	LF	1-1/2" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	28.44	5.24
		Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	6.00	
22 13 16 00-0516	LF	2" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	31.93	6.24
		Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	6.67	
22 13 16 00-0517	LF	3" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	45.00	8.97
		Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	8.30	
22 13 16 00-0518	LF	4" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	57.68	9.73
		Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	9.06	
22 13 16 00-0519	LF	6" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	92.25	12.47
		Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	11.60	
22 13 16 00-0520	LF	8" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	121.99	16.59
		Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	13.30	
22 13 16 00-0521	LF	10" Diameter, Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	171.75	22.20
		Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		<i>For Work In Restricted Working Space, Add</i>	17.33	
22 13 16 00-0522		Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: Excludes fittings or hangers.		
22 13 16 00-0523		Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) (22 13 16 00-0522) Note: Excludes fittings or hangers.		
22 13 16 00-0524	LF	1-1/2" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	10.82	5.24
		<i>For Work In Restricted Working Space, Add</i>	2.34	
22 13 16 00-0525	LF	2" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	13.31	6.24
		<i>For Work In Restricted Working Space, Add</i>	2.80	
22 13 16 00-0526	LF	3" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	21.36	8.97
		<i>For Work In Restricted Working Space, Add</i>	4.02	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0527 LF 4" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	25.77 4.37	9.73
22 13 16 00-0528 LF 6" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	37.51 5.24	11.68
22 13 16 00-0529 LF 8" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	53.71 7.00	15.53
22 13 16 00-0530 LF 10" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	77.66 9.34	20.77
22 13 16 00-0531 Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) (22 13 16 00-0522) Note: Excludes fittings or hangers.		
22 13 16 00-0532 LF 1-1/2" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	9.92 2.34	5.24
22 13 16 00-0533 LF 2" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	12.24 2.80	6.24
22 13 16 00-0534 LF 3" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	19.33 4.02	8.97
22 13 16 00-0535 LF 4" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	23.08 4.37	9.73
22 13 16 00-0536 LF 6" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	32.50 5.24	11.68
22 13 16 00-0537 LF 8" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	46.68 7.00	15.53
22 13 16 00-0538 LF 10" Diameter, Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	70.01 9.34	20.77
22 13 16 00-0539 Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) (22 13 16 00-0504)		
22 13 16 00-0540 Polyvinyl Chloride (PVC) DWV 1/4 Bends (22 13 16 00-0539)		
22 13 16 00-0541 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	40.70 9.35	20.83
22 13 16 00-0542 EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	51.99 11.97	26.56
22 13 16 00-0543 EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	91.18 16.09	35.66
22 13 16 00-0544 EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	142.06 18.71	41.53
22 13 16 00-0545 EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	566.03 24.32	54.00
22 13 16 00-0546 EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	939.84 32.73	72.70
22 13 16 00-0547 EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	1,240.73 43.64	96.89
22 13 16 00-0548 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0539)		
22 13 16 00-0549 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	67.44 9.35	20.83
22 13 16 00-0550 EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	67.38 11.97	26.56
22 13 16 00-0551 EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	130.76 16.09	35.66
22 13 16 00-0552 EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	214.62 18.71	41.53
22 13 16 00-0553 EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	425.88 24.32	54.00
22 13 16 00-0554 EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	755.66 32.73	72.70
22 13 16 00-0555 EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	1,237.43 43.64	96.89
22 13 16 00-0556 Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0557 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	42.90 9.35	20.83
22 13 16 00-0558 EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	51.81 11.97	26.56
22 13 16 00-0559 EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	87.88 16.09	35.66
22 13 16 00-0560 EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	125.94 18.71	41.53
22 13 16 00-0561 EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	524.99 24.32	54.00
22 13 16 00-0562 EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	844.45 32.73	72.70
22 13 16 00-0563 EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	960.13 43.64	96.89
22 13 16 00-0564 Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0539)		



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22 13 16 00-0565 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... For Work In Restricted Working Space, Add	63.80 14.03	31.17
22 13 16 00-0566 EA 2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... For Work In Restricted Working Space, Add	84.22 17.96	39.90
22 13 16 00-0567 EA 3" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... For Work In Restricted Working Space, Add	145.30 24.13	53.62
22 13 16 00-0568 EA 4" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... For Work In Restricted Working Space, Add	217.20 28.06	62.36
22 13 16 00-0569 EA 6" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... For Work In Restricted Working Space, Add	840.93 36.47	80.93
22 13 16 00-0570 EA 8" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... For Work In Restricted Working Space, Add	1,093.61 49.10	108.99
22 13 16 00-0571 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0572 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	81.91 15.34	34.04
22 13 16 00-0573 EA 2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	98.00 16.65	36.91
22 13 16 00-0574 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	79.86 16.65	36.91
22 13 16 00-0575 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	118.86 20.76	46.14
22 13 16 00-0576 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	120.84 22.07	49.01
22 13 16 00-0577 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	144.63 23.38	51.88
22 13 16 00-0578 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	249.94 24.69	54.87
22 13 16 00-0579 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	317.08 26.75	59.36
22 13 16 00-0580 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	807.91 33.67	74.69
22 13 16 00-0581 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	2,561.87 42.09	93.40
22 13 16 00-0582 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... For Work In Restricted Working Space, Add	2,649.30 44.89	99.64
22 13 16 00-0583 Polyvinyl Chloride (PVC) DWV Double Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0584 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... For Work In Restricted Working Space, Add	113.66 18.71	41.53
22 13 16 00-0585 EA 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... For Work In Restricted Working Space, Add	154.93 23.94	53.12
22 13 16 00-0586 EA 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... For Work In Restricted Working Space, Add	317.95 32.18	71.45
22 13 16 00-0587 EA 4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... For Work In Restricted Working Space, Add	463.47 37.41	83.05
22 13 16 00-0588 Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0589 EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... For Work In Restricted Working Space, Add	138.99 21.32	47.38
22 13 16 00-0590 EA 3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... For Work In Restricted Working Space, Add	244.29 25.44	56.49
22 13 16 00-0591 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... For Work In Restricted Working Space, Add	282.51 28.06	62.36
22 13 16 00-0592 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... For Work In Restricted Working Space, Add	518.41 30.68	68.09
22 13 16 00-0593 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... For Work In Restricted Working Space, Add	543.55 34.79	77.19
22 13 16 00-0594 Polyvinyl Chloride (PVC) DWV Reducers (22 13 16 00-0539)		
22 13 16 00-0595 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... For Work In Restricted Working Space, Add	54.60 10.66	23.69
22 13 16 00-0596 EA 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... For Work In Restricted Working Space, Add	103.23 12.72	28.18
22 13 16 00-0597 EA 3" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... For Work In Restricted Working Space, Add	97.69 14.03	31.17
22 13 16 00-0598 EA 4" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... For Work In Restricted Working Space, Add	151.90 15.34	34.04
22 13 16 00-0599 EA 4" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... For Work In Restricted Working Space, Add	163.33 17.39	38.65
22 13 16 00-0600 EA 6" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... For Work In Restricted Working Space, Add	599.59 20.20	44.89
22 13 16 00-0601 EA 6" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... For Work In Restricted Working Space, Add	499.15 21.51	47.76
22 13 16 00-0602 EA 8" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... For Work In Restricted Working Space, Add	1,258.62 25.72	57.12
22 13 16 00-0603 EA 8" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... For Work In Restricted Working Space, Add	1,060.10 28.52	63.34

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22 13 16 00-0604	EA	10" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	1,426.74 33.98	75.45
22 13 16 00-0605	EA	10" x 8" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	1,112.67 38.19	84.80
22 13 16 00-0606		Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0539)		
22 13 16 00-0607	EA	1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	80.11 14.03	31.17
22 13 16 00-0608	EA	2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	105.29 17.96	39.90
22 13 16 00-0609	EA	3" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	306.72 24.13	53.62
22 13 16 00-0610	EA	4" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	632.37 28.06	62.36
22 13 16 00-0611	EA	6" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	1,074.31 36.47	80.93
22 13 16 00-0612		Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0539)		
22 13 16 00-0613	EA	4" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	126.30 18.71	41.53
22 13 16 00-0614	EA	4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	102.68 17.39	38.65
22 13 16 00-0615		Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0539)		
22 13 16 00-0616	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	80.84 14.03	31.17
22 13 16 00-0617	EA	2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	94.11 17.96	39.90
22 13 16 00-0618	EA	3" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	157.94 24.13	53.62
22 13 16 00-0619	EA	4" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	237.90 28.06	62.36
22 13 16 00-0620	EA	6" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	763.24 36.47	80.93
22 13 16 00-0621	EA	8" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	946.04 49.10	108.99
22 13 16 00-0622	EA	10" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	1,244.85 65.47	145.27
22 13 16 00-0623		Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0539)		
22 13 16 00-0624	EA	2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	111.96 15.34	34.04
22 13 16 00-0625	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	115.77 16.65	36.91
22 13 16 00-0626	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	163.91 20.76	46.14
22 13 16 00-0627	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	133.48 22.07	49.01
22 13 16 00-0628	EA	4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	228.29 23.38	51.88
22 13 16 00-0629	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	198.28 24.69	54.87
22 13 16 00-0630	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	224.56 26.75	59.36
22 13 16 00-0631	EA	6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	689.94 32.36	71.82
22 13 16 00-0632	EA	6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	856.71 33.67	74.69
22 13 16 00-0633	EA	8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	810.84 42.09	93.40
22 13 16 00-0634	EA	8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	1,027.02 44.89	99.64
22 13 16 00-0635	EA	10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	932.14 53.00	117.59
22 13 16 00-0636	EA	10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	1,166.19 55.80	123.83
22 13 16 00-0637	EA	10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	1,359.63 60.01	133.18
22 13 16 00-0638		Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0539)		
22 13 16 00-0639	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	134.91 18.71	41.53
22 13 16 00-0640	EA	2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	173.07 23.94	53.12
22 13 16 00-0641	EA	3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	348.18 32.18	71.45
22 13 16 00-0642	EA	4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	613.16 37.41	83.05



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0643	EA		6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,268.34 48.63	107.99
22 13 16 00-0644	EA		8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,466.71 65.47	145.41
22 13 16 00-0645	EA		10" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	2,280.38 87.29	193.79
22 13 16 00-0646 Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0539)					
22 13 16 00-0647	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	156.28 21.32	47.38
22 13 16 00-0648	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	296.20 25.44	56.49
22 13 16 00-0649	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	272.90 28.06	62.36
22 13 16 00-0650	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	395.06 30.68	68.09
22 13 16 00-0651	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	502.74 34.79	77.19
22 13 16 00-0652	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	778.66 43.02	95.52
22 13 16 00-0653	EA		8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	911.16 51.44	114.22
22 13 16 00-0654	EA		8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,162.67 57.05	126.70
22 13 16 00-0655	EA		10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,227.67 62.35	138.42
22 13 16 00-0656	EA		10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,598.57 67.96	150.89
22 13 16 00-0657	EA		10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,935.22 76.38	169.59
22 13 16 00-0658 Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends (22 13 16 00-0539)					
22 13 16 00-0659	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	102.09 14.03	31.17
22 13 16 00-0660	EA		2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	127.27 17.96	39.90
22 13 16 00-0661	EA		3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	257.61 24.13	53.62
22 13 16 00-0662	EA		4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	461.43 28.06	62.36
22 13 16 00-0663 Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends (22 13 16 00-0539)					
22 13 16 00-0664	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	195.10 16.65	36.91
22 13 16 00-0665	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	311.76 20.76	46.14
22 13 16 00-0666	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	225.17 22.07	49.01
22 13 16 00-0667	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	419.55 24.69	54.87
22 13 16 00-0668	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	454.44 26.75	59.36
22 13 16 00-0669 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends (22 13 16 00-0539)					
22 13 16 00-0670	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	151.40 18.71	41.53
22 13 16 00-0671	EA		2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	174.90 23.94	53.12
22 13 16 00-0672	EA		3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	272.51 32.18	71.45
22 13 16 00-0673	EA		4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	995.35 37.41	83.05
22 13 16 00-0674	EA		6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	3,323.02 48.63	107.99
22 13 16 00-0675 Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0539)					
22 13 16 00-0676	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	362.43 21.32	47.38
22 13 16 00-0677	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	587.15 28.06	62.36
22 13 16 00-0678	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	1,022.21 30.68	68.09
22 13 16 00-0679	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	921.09 34.79	77.19

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0680 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	2,208.43 43.02	95.52
22 13 16 00-0681 Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug (22 13 16 00-0539)		
22 13 16 00-0682 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	222.04 17.96	39.90
22 13 16 00-0683 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	390.28 24.13	53.62
22 13 16 00-0684 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	632.46 28.06	62.36
22 13 16 00-0685 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	1,687.58 36.47	80.93
22 13 16 00-0686 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	2,113.44 49.10	108.99
22 13 16 00-0687 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	2,804.42 65.47	145.27
22 13 16 00-0688 Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug (22 13 16 00-0539)		
22 13 16 00-0689 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	59.20 9.35	20.83
22 13 16 00-0690 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	85.15 11.97	26.56
22 13 16 00-0691 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	123.24 16.09	35.66
22 13 16 00-0692 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	225.97 18.71	41.53
22 13 16 00-0693 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	530.12 24.32	54.00
22 13 16 00-0694 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	1,204.13 32.73	72.70
22 13 16 00-0695 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	2,228.50 43.62	96.89
22 13 16 00-0696 Polyvinyl Chloride (PVC) Couplings (22 13 16 00-0539)		
22 13 16 00-0697 EA 1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	39.48 9.35	20.83
22 13 16 00-0698 EA 2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	49.24 11.97	26.56
22 13 16 00-0699 EA 3" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	77.50 16.09	35.66
22 13 16 00-0700 EA 4" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	101.61 18.71	41.53
22 13 16 00-0701 EA 6" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	297.64 24.32	54.00
22 13 16 00-0702 EA 8" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	734.80 32.73	72.70
22 13 16 00-0703 EA 10" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	1,115.08 43.65	96.89
22 13 16 00-0704 Polyvinyl Chloride (PVC) Male Adapters (22 13 16 00-0539)		
22 13 16 00-0705 EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	24.00 4.68	10.35
22 13 16 00-0706 EA 2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	40.63 5.99	13.35
22 13 16 00-0707 EA 3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	84.17 8.04	17.83
22 13 16 00-0708 EA 4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	162.62 9.35	20.83
22 13 16 00-0709 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504)		
Note: In place piping.		
22 13 16 00-0710 EA 1-1/2" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 22 13 16 00-0711 EA 2" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 22 13 16 00-0712 EA 3" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 22 13 16 00-0713 EA 4" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 22 13 16 00-0714 EA 6" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 22 13 16 00-0715 EA 8" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe 22 13 16 00-0716 EA 10" Diameter, Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	9.14 10.06 12.79 17.26 24.68 32.91 40.22	
22 13 16 00-0717 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16)		
Note: Aboveground installation.		
22 13 16 00-0718 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies (22 13 16 00-0717)		
Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0719	LF	1-1/2" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	30.24 7.17	5.24
22 13 16 00-0720	LF	2" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	33.60 7.94	6.24
22 13 16 00-0721	LF	3" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	45.80 9.87	8.97
22 13 16 00-0722	LF	4" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	52.73 10.96	9.73
22 13 16 00-0723	LF	6" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	87.63 14.58	12.47
22 13 16 00-0724 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) (22 13 16 00-0717) Note: Excludes fittings or hangers.				
22 13 16 00-0725	LF	1-1/2" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe	10.52	5.24
		<i>For Work In Restricted Working Space, Add</i>	2.34	
22 13 16 00-0726	LF	2" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	13.01	6.24
		<i>For Work In Restricted Working Space, Add</i>	2.80	
22 13 16 00-0727	LF	3" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	20.99	8.97
		<i>For Work In Restricted Working Space, Add</i>	4.02	
22 13 16 00-0728	LF	4" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	25.38	9.73
		<i>For Work In Restricted Working Space, Add</i>	4.37	
22 13 16 00-0729	LF	6" Diameter, Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	39.55	11.68
		<i>For Work In Restricted Working Space, Add</i>	5.24	
22 13 16 00-0730 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) (22 13 16 00-0717)				
22 13 16 00-0731 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends (22 13 16 00-0730)				
22 13 16 00-0732	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	42.77	20.83
		<i>For Work In Restricted Working Space, Add</i>	9.35	
22 13 16 00-0733	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	56.45	26.56
		<i>For Work In Restricted Working Space, Add</i>	11.97	
22 13 16 00-0734	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	104.69	35.66
		<i>For Work In Restricted Working Space, Add</i>	16.09	
22 13 16 00-0735	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	162.43	41.53
		<i>For Work In Restricted Working Space, Add</i>	18.71	
22 13 16 00-0736	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends	454.53	54.00
		<i>For Work In Restricted Working Space, Add</i>	24.32	
22 13 16 00-0737 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends (22 13 16 00-0730)				
22 13 16 00-0738	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends	58.82	20.83
		<i>For Work In Restricted Working Space, Add</i>	9.35	
22 13 16 00-0739	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends	72.13	26.56
		<i>For Work In Restricted Working Space, Add</i>	11.97	
22 13 16 00-0740	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends	143.63	35.66
		<i>For Work In Restricted Working Space, Add</i>	16.09	
22 13 16 00-0741	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends	239.89	41.53
		<i>For Work In Restricted Working Space, Add</i>	18.71	
22 13 16 00-0742 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends (22 13 16 00-0730)				
22 13 16 00-0743	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	44.95	20.83
		<i>For Work In Restricted Working Space, Add</i>	9.35	
22 13 16 00-0744	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	54.93	26.56
		<i>For Work In Restricted Working Space, Add</i>	11.97	
22 13 16 00-0745	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	96.71	35.66
		<i>For Work In Restricted Working Space, Add</i>	16.09	
22 13 16 00-0746	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	147.69	41.53
		<i>For Work In Restricted Working Space, Add</i>	18.71	
22 13 16 00-0747	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends	470.08	54.00
		<i>For Work In Restricted Working Space, Add</i>	24.32	
22 13 16 00-0748 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees (22 13 16 00-0730)				
22 13 16 00-0749	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees	66.52	31.17
		<i>For Work In Restricted Working Space, Add</i>	14.03	
22 13 16 00-0750	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees	89.55	39.90
		<i>For Work In Restricted Working Space, Add</i>	17.96	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0751	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	156.12 24.13	53.62
22 13 16 00-0752	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	238.93 28.06	62.36
22 13 16 00-0753	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	909.72 36.47	80.93
22 13 16 00-0754 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees (22 13 16 00-0730)				
22 13 16 00-0755	EA	2" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	82.64 15.34	34.04
22 13 16 00-0756	EA	2" x 1-1/2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	99.73 16.65	36.91
22 13 16 00-0757	EA	2" x 2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	83.96 16.65	36.91
22 13 16 00-0758	EA	3" x 3" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	127.01 20.76	46.14
22 13 16 00-0759	EA	3" x 3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	131.90 22.07	49.01
22 13 16 00-0760	EA	4" x 4" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	287.51 23.38	51.88
22 13 16 00-0761	EA	4" x 4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	277.92 24.69	54.87
22 13 16 00-0762	EA	4" x 4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	318.56 26.75	59.36
22 13 16 00-0763	EA	6" x 6" x 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	993.42 33.67	74.69
22 13 16 00-0764 Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees (22 13 16 00-0730)				
22 13 16 00-0765	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	122.38 18.71	41.53
22 13 16 00-0766	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	167.38 23.94	53.12
22 13 16 00-0767	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	353.25 32.18	71.45
22 13 16 00-0768	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	518.97 37.41	83.05
22 13 16 00-0769 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees (22 13 16 00-0730)				
22 13 16 00-0770	EA	2" x 2" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	139.16 21.32	47.38
22 13 16 00-0771	EA	3" x 3" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	210.17 25.44	56.49
22 13 16 00-0772	EA	3" x 3" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	241.87 28.06	62.36
22 13 16 00-0773	EA	4" x 4" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	422.43 28.71	63.73
22 13 16 00-0774	EA	4" x 4" x 3" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	444.29 32.57	72.25
22 13 16 00-0775 Acrylonitrile Butadiene Styrene (ABS) DWV Wyes (22 13 16 00-0730)				
22 13 16 00-0776	EA	1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	86.54 14.03	31.17
22 13 16 00-0777	EA	2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	100.69 17.96	39.90
22 13 16 00-0778	EA	3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	170.83 24.13	53.62
22 13 16 00-0779	EA	4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	261.94 28.06	62.36
22 13 16 00-0780	EA	6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	739.55 36.47	80.93
22 13 16 00-0781 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes (22 13 16 00-0730)				
22 13 16 00-0782	EA	2" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	122.10 15.34	34.04
22 13 16 00-0783	EA	2" x 2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	125.74 16.65	36.91
22 13 16 00-0784	EA	3" x 3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	143.82 22.07	49.01
22 13 16 00-0785	EA	4" x 4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	217.61 24.69	54.87
22 13 16 00-0786	EA	4" x 4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	247.25 26.75	59.36
22 13 16 00-0787	EA	6" x 6" x 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	622.80 33.67	74.69



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0788 Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes (22 13 16 00-0730)		
22 13 16 00-0789 EA 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	146.96	41.53
For Work In Restricted Working Space, Add	18.71	
22 13 16 00-0790 EA 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	188.64	53.12
For Work In Restricted Working Space, Add	23.94	
22 13 16 00-0791 EA 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	388.59	71.45
For Work In Restricted Working Space, Add	32.18	
22 13 16 00-0792 EA 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	694.61	83.05
For Work In Restricted Working Space, Add	37.41	
22 13 16 00-0793 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0730)		
22 13 16 00-0794 EA 2" x 2" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	170.47	47.38
For Work In Restricted Working Space, Add	21.32	
22 13 16 00-0795 EA 3" x 3" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	283.25	56.49
For Work In Restricted Working Space, Add	25.44	
22 13 16 00-0796 EA 3" x 3" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	302.40	62.36
For Work In Restricted Working Space, Add	28.06	
22 13 16 00-0797 EA 4" x 4" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	443.95	68.09
For Work In Restricted Working Space, Add	30.68	
22 13 16 00-0798 EA 4" x 4" x 3" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	567.31	77.19
For Work In Restricted Working Space, Add	34.79	
22 13 16 00-0799 Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend (22 13 16 00-0730)		
22 13 16 00-0800 EA 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	110.30	31.17
For Work In Restricted Working Space, Add	14.03	
22 13 16 00-0801 EA 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	142.43	39.90
For Work In Restricted Working Space, Add	17.96	
22 13 16 00-0802 EA 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	216.50	53.62
For Work In Restricted Working Space, Add	24.13	
22 13 16 00-0803 EA 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	354.66	58.36
For Work In Restricted Working Space, Add	26.27	
22 13 16 00-0804 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend (22 13 16 00-0730)		
22 13 16 00-0805 EA 2" x 2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	122.36	36.91
For Work In Restricted Working Space, Add	16.65	
22 13 16 00-0806 EA 3" x 3" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	227.56	46.14
For Work In Restricted Working Space, Add	20.76	
22 13 16 00-0807 EA 3" x 3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	172.53	49.01
For Work In Restricted Working Space, Add	22.07	
22 13 16 00-0808 EA 4" x 4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	302.72	54.87
For Work In Restricted Working Space, Add	24.69	
22 13 16 00-0809 EA 4" x 4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	327.85	59.36
For Work In Restricted Working Space, Add	26.75	
22 13 16 00-0810 Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend (22 13 16 00-0730)		
22 13 16 00-0811 EA 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	229.31	53.12
For Work In Restricted Working Space, Add	23.94	
22 13 16 00-0812 EA 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	452.06	71.45
For Work In Restricted Working Space, Add	32.18	
22 13 16 00-0813 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend (22 13 16 00-0730)		
22 13 16 00-0814 EA 2" x 2" x 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	191.39	47.38
For Work In Restricted Working Space, Add	21.32	
22 13 16 00-0815 EA 3" x 3" x 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	432.45	62.36
For Work In Restricted Working Space, Add	28.06	
22 13 16 00-0816 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug (22 13 16 00-0730)		
22 13 16 00-0817 EA 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	121.50	31.17
For Work In Restricted Working Space, Add	14.03	
22 13 16 00-0818 EA 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	153.62	39.90
For Work In Restricted Working Space, Add	17.96	
22 13 16 00-0819 EA 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	241.52	53.62
For Work In Restricted Working Space, Add	24.13	
22 13 16 00-0820 EA 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	394.63	62.36
For Work In Restricted Working Space, Add	28.06	
22 13 16 00-0821 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug (22 13 16 00-0730)		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0822 EA 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	56.79 9.35	20.83
22 13 16 00-0823 EA 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	81.25 11.97	26.56
22 13 16 00-0824 EA 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	117.16 16.09	35.66
22 13 16 00-0825 EA 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	211.96 18.71	41.53
22 13 16 00-0826 EA 6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	491.74 24.32	54.00
22 13 16 00-0827 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings (22 13 16 00-0730)		
22 13 16 00-0828 EA 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	40.00 9.35	20.83
22 13 16 00-0829 EA 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	49.21 11.97	26.56
22 13 16 00-0830 EA 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	78.95 16.09	35.66
22 13 16 00-0831 EA 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	104.12 18.71	41.53
22 13 16 00-0832 EA 6" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	287.46 24.32	54.00
22 13 16 00-0833 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers (22 13 16 00-0730)		
22 13 16 00-0834 EA 2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	57.93 10.66	23.69
22 13 16 00-0835 EA 3" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	113.37 12.72	28.18
22 13 16 00-0836 EA 3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	106.27 14.03	31.17
22 13 16 00-0837 EA 4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	168.52 15.34	34.04
22 13 16 00-0838 EA 4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	180.80 17.39	38.65
22 13 16 00-0839 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0730)		
22 13 16 00-0840 EA 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	90.16 14.03	31.17
22 13 16 00-0841 EA 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	130.10 17.96	39.90
22 13 16 00-0842 EA 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	402.21 24.13	53.62
22 13 16 00-0843 EA 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	752.75 28.06	62.36
22 13 16 00-0844 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0730)		
22 13 16 00-0845 EA 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	122.96 18.71	41.53
22 13 16 00-0846 EA 4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	114.82 17.39	38.65
22 13 16 00-0847 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0730)		
22 13 16 00-0848 EA 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	26.86 4.68	10.35
22 13 16 00-0849 EA 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	39.93 5.99	13.35
22 13 16 00-0850 EA 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	85.00 8.04	17.83
22 13 16 00-0851 EA 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	159.90 9.35	20.83
22 13 16 00-0852 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0730)		
22 13 16 00-0853 EA 2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	44.85 10.66	23.69
22 13 16 00-0854 EA 3" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	92.63 12.72	28.18
22 13 16 00-0855 EA 3" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	78.68 14.03	31.17
22 13 16 00-0856 EA 4" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	166.90 15.34	34.04
22 13 16 00-0857 EA 4" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	125.07 17.39	38.65
22 13 16 00-0858 EA 6" x 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	330.19 20.13	44.70



Plumbing		22	22
Plumbing Piping		22 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0859 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0730)		
22 13 16 00-0860 EA 1-1/2" x 1-1/2" Diameter, Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	168.59	20.83
For Work In Restricted Working Space, Add	9.35	
22 13 16 00-0861 EA 2" x 2" Diameter, Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	186.48	26.56
For Work In Restricted Working Space, Add	11.97	
22 13 16 00-0862 EA 3" x 3" Diameter, Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	209.36	35.66
For Work In Restricted Working Space, Add	16.09	
22 13 16 00-0863 EA 4" x 4" Diameter, Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	227.26	41.53
For Work In Restricted Working Space, Add	18.71	
22 13 16 00-0864 Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe (22 13 16 00-0717)		
Note: In place piping.		
22 13 16 00-0865 EA 1-1/2" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	9.14	
22 13 16 00-0866 EA 2" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	10.06	
22 13 16 00-0867 EA 3" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	12.79	
22 13 16 00-0868 EA 4" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	17.26	
22 13 16 00-0869 EA 6" Diameter, Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	24.68	
22 13 16 00-0870 Elastomeric Flexible Pipe Couplings (22 13 16)		
22 13 16 00-0871 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings (22 13 16 00-0870)		
Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0872 EA 1-1/4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125).....	15.34	5.42
For Work In Restricted Working Space, Add	3.25	
22 13 16 00-0873 EA 1-1/2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	16.49	5.75
For Work In Restricted Working Space, Add	3.45	
22 13 16 00-0874 EA 2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	17.36	6.09
For Work In Restricted Working Space, Add	3.66	
22 13 16 00-0875 EA 3" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	19.85	6.44
For Work In Restricted Working Space, Add	3.86	
22 13 16 00-0876 EA 4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	22.28	6.77
For Work In Restricted Working Space, Add	4.06	
22 13 16 00-0877 EA 5" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	27.91	7.11
For Work In Restricted Working Space, Add	4.26	
22 13 16 00-0878 EA 6" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	33.60	7.45
For Work In Restricted Working Space, Add	4.47	
22 13 16 00-0879 EA 8" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	45.02	8.12
For Work In Restricted Working Space, Add	4.88	
22 13 16 00-0880 EA 10" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	58.96	9.48
For Work In Restricted Working Space, Add	5.69	
22 13 16 00-0881 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings (22 13 16 00-0870)		
Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0882 EA 1-1/2" Diameter x 1-1/4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125).....	16.32	5.75
For Work In Restricted Working Space, Add	3.45	
22 13 16 00-0883 EA 2" Diameter x 1-1/2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215).....	17.65	6.09
For Work In Restricted Working Space, Add	3.66	
22 13 16 00-0884 EA 3" Diameter x 1-1/2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315).....	21.29	6.44
For Work In Restricted Working Space, Add	3.86	
22 13 16 00-0885 EA 3" Diameter x 2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32).....	19.32	6.44
For Work In Restricted Working Space, Add	3.86	
22 13 16 00-0886 EA 4" Diameter x 1-1/2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415).....	25.83	6.77
For Work In Restricted Working Space, Add	4.06	
22 13 16 00-0887 EA 4" Diameter x 2" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42).....	24.83	6.77
For Work In Restricted Working Space, Add	4.06	
22 13 16 00-0888 EA 4" Diameter x 3" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43).....	22.96	6.77
For Work In Restricted Working Space, Add	4.06	
22 13 16 00-0889 EA 5" Diameter x 3" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53).....	32.31	7.11
For Work In Restricted Working Space, Add	4.26	
22 13 16 00-0890 EA 5" Diameter x 4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54).....	29.45	7.11
For Work In Restricted Working Space, Add	4.26	
22 13 16 00-0891 EA 6" Diameter x 3" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63).....	39.50	7.45
For Work In Restricted Working Space, Add	4.47	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0892 EA 6" Diameter x 4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64).....	35.22	7.45
<i>For Work In Restricted Working Space, Add</i>	4.47	
22 13 16 00-0893 EA 6" Diameter x 5" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65).....	36.42	7.45
<i>For Work In Restricted Working Space, Add</i>	4.47	
22 13 16 00-0894 EA 8" Diameter x 4" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84).....	71.11	13.54
<i>For Work In Restricted Working Space, Add</i>	8.12	
22 13 16 00-0895 EA 8" Diameter x 6" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86).....	59.25	13.54
<i>For Work In Restricted Working Space, Add</i>	8.12	
22 13 16 00-0896 EA 10" Diameter x 8" Diameter, Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8).....	74.27	15.23
<i>For Work In Restricted Working Space, Add</i>	9.14	
22 13 16 00-0897 Elastomeric Flexible Pipe Caps (Fernco QC) (22 13 16) Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0898 EA 1-1/2" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-101).....	58.94	36.56
22 13 16 00-0899 EA 2" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-102).....	63.13	38.86
22 13 16 00-0900 EA 3" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-103).....	73.01	44.55
22 13 16 00-0901 EA 4" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-104).....	96.38	58.91
22 13 16 00-0902 EA 5" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-105).....	115.46	70.41
22 13 16 00-0903 EA 6" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-106).....	133.37	81.24
22 13 16 00-0904 EA 8" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-108).....	177.58	102.91
22 13 16 00-0905 EA 10" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-110).....	215.97	115.10
22 13 16 00-0906 EA 12" Diameter, Elastomeric Flexible Pipe Cap (Fernco QC-112).....	269.43	127.96
22 13 16 00-0907 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)		
22 13 16 00-0908 EA 1-1/2" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	108.32	28.05
22 13 16 00-0909 EA 2" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	114.56	31.17
22 13 16 00-0910 EA 3" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	170.54	40.53
22 13 16 00-0911 EA 4" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	199.79	46.76
22 13 16 00-0912 EA 5" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	232.76	53.00
22 13 16 00-0913 EA 6" Diameter, Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	386.89	59.24
22 13 16 00-0914 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)		
22 13 16 00-0915 EA 1-1/2" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	219.03	28.05
22 13 16 00-0916 EA 2" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	225.27	31.17
22 13 16 00-0917 EA 3" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	268.33	40.53
22 13 16 00-0918 EA 4" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	335.09	46.76
22 13 16 00-0919 EA 5" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	456.18	53.00
22 13 16 00-0920 EA 6" Diameter, Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	468.64	59.24
22 13 16 00-0921 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16) Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0922 EA 1-1/2" Diameter, Cast Iron Vandal Proof Hooded Vent Cap.....	413.76	28.05
22 13 16 00-0923 EA 2" Diameter, Cast Iron Vandal Proof Hooded Vent Cap.....	420.00	31.17
22 13 16 00-0924 EA 3" Diameter, Cast Iron Vandal Proof Hooded Vent Cap.....	483.40	40.53
22 13 16 00-0925 EA 4" Diameter, Cast Iron Vandal Proof Hooded Vent Cap.....	544.31	46.76
22 13 16 00-0926 EA 5" Diameter, Cast Iron Vandal Proof Hooded Vent Cap.....	635.02	53.00
22 13 16 00-0927 EA 6" Diameter, Cast Iron Vandal Proof Hooded Vent Cap.....	694.05	59.24
22 13 19 Sanitary Waste Piping Specialties (22 13)		
22 13 19 13 Sanitary Drains (22 13 19)		
22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)		
22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	868.85	134.06
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	954.98	150.26
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	933.32	166.23
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	967.55	183.43
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
<i>For Sediment Bucket, Add</i>	22.50	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0006	EA		Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet	873.58	150.26
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0007	EA		Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet	905.63	166.23
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0008	EA		Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet	939.86	183.43
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0009	EA		Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet	1,443.91	150.26
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0010	EA		Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet	1,475.96	166.23
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0011	EA		Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet	1,510.19	183.43
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0012	EA		Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	1,360.85	150.26
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0013	EA		Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,392.73	166.23
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0014	EA		Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,427.13	183.43
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0015 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,493.61	150.14
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0016 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,525.63	166.23
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,560.03	183.43
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,346.34	150.14
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0019 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,378.36	166.23
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0020 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,412.76	183.43
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0021 EA Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,232.82	150.14
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0022 EA Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,264.84	166.23
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0023	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,299.24	183.43
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0024			Square Or Rectangular Top Drains (22 13 19 13)		
22 13 19 13-0025	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,031.25	150.14
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,063.62	166.35
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,097.67	183.43
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,114.31	150.14
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,146.68	166.35
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,180.73	183.43
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,479.76	150.14
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,512.13	166.35
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,546.18	183.43
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top	970.34	150.14
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top	1,002.71	166.35
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top	1,036.76	183.43
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top	1,075.55	150.14
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top	1,107.92	166.35
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top	1,141.97	183.43
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top	1,371.79	150.14
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top	1,404.16	166.35
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top	1,438.21	183.43
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0043 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top	3,541.52	166.35
For Galvanized Cast Iron Parts, Add	318.00	
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0044 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top	3,575.57	183.43
For Galvanized Cast Iron Parts, Add	318.00	
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0045 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top	4,444.08	166.35
For Galvanized Cast Iron Parts, Add	318.00	
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0046 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top	4,478.13	183.43
For Galvanized Cast Iron Parts, Add	318.00	
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0047 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top.....	4,336.11	166.35
For Galvanized Cast Iron Parts, Add	318.00	
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0048 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top.....	4,370.16	183.43
For Galvanized Cast Iron Parts, Add	318.00	
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0049 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,501.91	150.14
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0050 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,534.28	166.35
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0051 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,568.33	183.43
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0052 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,931.05	150.14
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0053 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,963.42	166.35
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0054 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,997.47	183.43
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0055 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,030.72	150.14
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0056 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,063.09	166.35
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0057 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,097.14	183.43
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0058 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,803.15	150.14
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0059 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,835.52	166.35
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0060 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,869.57	183.43
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0061 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top	1,413.32	150.14
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0062 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top	1,445.69	166.35
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	
22 13 19 13-0063 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top	1,479.74	183.43
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
For Sediment Bucket, Add	22.50	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0064	EA		5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top	1,778.77	150.14
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0065	EA		5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top	1,811.14	166.35
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0066	EA		5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top	1,845.19	183.43
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0067	EA		5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top	1,878.44	150.14
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0068	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top	1,910.81	166.35
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0069	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top	1,944.86	183.43
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0070	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top	2,506.91	150.14
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0071	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top	2,539.28	166.35
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0072	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top	2,573.33	183.43
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0073			Funnel Type Floor Drains (22 13 19 13)		
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top	1,417.15	134.06
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top	1,449.31	150.14
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top	1,481.33	166.23
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top	1,515.73	183.43
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top	2,072.24	150.14
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top	2,104.26	166.23
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top	2,138.66	183.43
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top	1,964.27	150.14
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	1,996.29	166.23
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	2,030.69	183.43
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet ^(22 13 19 13)					
22 13 19 13-0085	EA	12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap	3,000.67	134.06	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	247.00		
		For Primer Tap, Add	33.50		
22 13 19 13-0086	EA	12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap	3,032.95	150.14	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	247.00		
		For Primer Tap, Add	33.50		
22 13 19 13-0087	EA	12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap	3,064.97	166.23	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	247.00		
		For Primer Tap, Add	33.50		
22 13 19 13-0088	EA	12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap	3,099.37	183.43	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	247.00		
		For Primer Tap, Add	33.50		
22 13 19 13-0089	EA	12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap	3,134.87	201.14	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	247.00		
		For Primer Tap, Add	33.50		
22 13 19 13-0090	EA	12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron	3,243.36	150.14	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		
22 13 19 13-0091	EA	12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron	3,275.73	166.35	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		
22 13 19 13-0092	EA	12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron	3,309.78	183.43	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		
22 13 19 13-0093	EA	12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron	3,345.28	201.14	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		
22 13 19 13-0094	EA	12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron	1,994.72	150.14	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		
22 13 19 13-0095	EA	12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron	2,027.09	166.35	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		
22 13 19 13-0096	EA	12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron	2,061.14	183.43	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		
22 13 19 13-0097	EA	12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron	2,096.64	201.14	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		
22 13 19 13-0098	EA	12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron	3,027.41	150.14	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		
22 13 19 13-0099	EA	12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron	3,059.78	166.35	
		Grate			
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	31.00		
		For Aluminum Bucket, Add	77.50		
		For Galvanized Cast Iron Parts, Add	273.75		



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,093.83	183.43
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,129.33	201.14
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0102			Other Drains (22 13 19 13)		
22 13 19 13-0103			Shower Drains (22 13 19 13-0102)		
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer Note: Includes two 2-5/8" screws.	56.25	13.54
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer Note: Includes two 2-5/8" screws.	62.54	13.54
22 13 19 13-0106	EA		4" Diameter, Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe..... Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.	129.77	27.08
22 13 19 13-0107	EA		4" Chrome Finish, Threaded Brass Shower Drain And Gasket Note: For 2" pipe. Kohler K-9132.	114.17	27.08
22 13 19 13-0108			Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top For Vandal Proof Screws, Add For Galvanized Cast Iron Parts, Add For Primer Tap, Add	1,428.10 30.50 87.50 33.50	134.06
22 13 19 13-0110	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top For Vandal Proof Screws, Add For Galvanized Cast Iron Parts, Add For Primer Tap, Add	1,460.38 30.50 87.50 33.50	150.14
22 13 19 13-0111	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top For Vandal Proof Screws, Add For Galvanized Cast Iron Parts, Add For Primer Tap, Add	1,492.40 30.50 87.50 33.50	166.23
22 13 19 13-0112			Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113	EA		1-1/2" Drain, 3" Sink Opening Lever Drain	296.11	90.41
22 13 19 13-0114	EA		2" Drain, 3" Sink Opening Lever Drain	314.81	99.76
22 13 19 13-0115	EA		1-1/2" Drain, 3-1/2" Sink Opening Lever Drain	296.11	90.41
22 13 19 13-0116	EA		2" Drain, 3-1/2" Sink Opening Lever Drain	314.81	99.76
22 13 19 13-0117	EA		1-1/2" Drain, 3" Sink Opening Twist Drain	296.11	90.41
22 13 19 13-0118	EA		2" Drain, 3" Sink Opening Twist Drain	314.81	99.76
22 13 19 13-0119	EA		1-1/2" Drain, 3-1/2" Sink Opening Twist Drain	296.11	90.41
22 13 19 13-0120	EA		2" Drain, 3-1/2" Sink Opening Twist Drain	314.81	99.76
22 13 19 13-0121	EA		1-1/2" To 2" Drain, 3-1/2" Sink Opening Rotary Twist Drain (Fisher 16100).....	403.76	99.76
22 13 19 13-0122			Floor Receptor (22 13 19 13)		
22 13 19 13-0123			9" Diameter Round Shallow Receptor (22 13 19 13-0122) Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	1,751.29 58.50 97.00 38.00 36.00 33.50 47.00 62.50	150.26
22 13 19 13-0125	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	1,783.82 58.50 97.00 38.00 36.00 33.50 47.00 62.50	166.47
22 13 19 13-0126	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	1,817.51 58.50 97.00 38.00 36.00 33.50 47.00 62.50	183.43

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 13 19 13-0127	Square Top Floor Receptors (22 13 19 13-0122) Note: With acid resistant coating.				
22 13 19 13-0128	EA 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	2,062.23 37.50 69.00 39.50 36.00 15.50 88.00 97.00		134.06	
22 13 19 13-0129	EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	2,094.53 37.50 69.00 39.50 36.00 15.50 88.00 97.00		150.26	
22 13 19 13-0130	EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	2,126.41 37.50 69.00 39.50 36.00 15.50 88.00 97.00		166.23	
22 13 19 13-0131	EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	2,160.81 37.50 69.00 39.50 36.00 15.50 88.00 97.00		183.43	
22 13 19 13-0132	Floor Drain Accessories (22 13 19 13) Note: Prevents emission of sewer gases.				
22 13 19 13-0133	EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....	120.36		15.59	
22 13 19 13-0134	EA 2" Diameter, Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22).....	98.06		15.59	
22 13 19 13-0135	EA 3" Diameter, Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)..... Note: Prevents emission of sewer gases.	106.98		15.59	
22 13 19 13-0136	EA 3" Diameter, Trap Guard Drain Insert For 4" Diameter, Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP)..... Note: Prevents emission of sewer gases.	129.28		15.59	
22 13 19 13-0137	EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP)..... Note: Prevents emission of sewer gases.	115.90		15.59	
22 13 19 13-0138	EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)..... Note: Prevents emission of sewer gases.	165.20		15.59	
22 13 19 13-0139	EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03)..... Note: Prevents emission of sewer gases.	183.15		15.59	
22 13 19 13-0140	EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04)..... Note: Prevents emission of sewer gases.	227.68		15.59	
22 13 19 26	Grease Removal Devices (22 13 19) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.				
22 13 19 26-0001	Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.				
22 13 19 26-0002	Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.				
22 13 19 26-0003	EA 7 GPM, 14 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60102H. For Steel Enclosure Cabinet With Non-Skid Cover, Add	1,398.07 1,345.45		93.53	
22 13 19 26-0004	EA 10 GPM, 20 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60103H. For Flange And Clamp Device, Add For Steel Enclosure Cabinet With Non-Skid Cover, Add	1,630.31 400.45 1,423.87		210.44	
22 13 19 26-0005	EA 15 GPM, 30 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60104H. For Flange And Clamp Device, Add For Steel Enclosure Cabinet With Non-Skid Cover, Add	2,310.18 416.04 1,555.74		233.82	
22 13 19 26-0006	EA 20 GPM, 40 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60105H. For Flange And Clamp Device, Add For Steel Enclosure Cabinet With Non-Skid Cover, Add	2,788.95 431.63 1,682.16		257.19	
22 13 19 26-0007	EA 25 GPM, 50 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60106H. For Flange And Clamp Device, Add For Steel Enclosure Cabinet With Non-Skid Cover, Add	3,122.12 477.61 1,753.86		280.57	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0008	EA	35 GPM, 70 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60107H. <i>For Flange And Clamp Device, Add</i>	3,833.15 519.99	327.34
		<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,933.11	
22 13 19 26-0009	EA	50 GPM, 100 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60108H. <i>For Flange And Clamp Device, Add</i>	4,997.17 592.12	374.10
		<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	2,065.30	
22 13 19 26-0010	EA	75 GPM, 150 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60109H. <i>For Flange And Clamp Device, Add</i>	9,805.96 824.58	420.86
22 13 19 26-0011	EA	100 GPM, 200 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60110H. <i>For Flange And Clamp Device, Add</i>	11,099.66 957.63	524.44
22 13 19 26-0012	EA	150 GPM, 300 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60213A. <i>For Flange And Clamp Device, Add</i>	13,706.38 1,327.41	839.11
22 13 19 26-0013	EA	200 GPM, 400 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60214A. <i>For Flange And Clamp Device, Add</i>	19,659.31 1,596.54	1,048.89
22 13 19 26-0014	EA	250 GPM, 500 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60215A. <i>For Flange And Clamp Device, Add</i>	22,935.11 2,049.36	1,258.67
22 13 19 26-0015	EA	350 GPM, 700 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60216A. <i>For Flange And Clamp Device, Add</i>	29,790.94 2,426.97	1,468.44
22 13 19 26-0016	EA	500 GPM, 1,000 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60217A. <i>For Flange And Clamp Device, Add</i>	38,528.86 2,840.10	1,678.23
22 13 19 26-0017		Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA	20 GPM, 40 Lb. Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A.	4,009.26	257.19
22 13 19 26-0019	EA	35 GPM, 70 Lb. Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60117A.	5,157.47	327.34
22 13 19 26-0020	EA	50 GPM, 100 Lb. Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	8,497.86	374.10
22 13 19 26-0021		Semi-Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022		Standard Semi-Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA	7 GPM, 14 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	3,521.29 1,345.45	93.53
22 13 19 26-0024	EA	10 GPM, 20 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	4,140.27 1,423.87	210.44
22 13 19 26-0025	EA	15 GPM, 30 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	4,424.16 1,555.74	233.82
22 13 19 26-0026	EA	20 GPM, 40 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	5,397.52 1,682.16	257.19
22 13 19 26-0027	EA	25 GPM, 50 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	6,504.94 1,753.86	280.57
22 13 19 26-0028	EA	35 GPM, 70 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	6,728.32 1,933.11	327.34
22 13 19 26-0029	EA	50 GPM, 100 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	7,680.47 2,065.30	374.10
22 13 19 26-0030		Low Profile Semi-Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031	EA	35 GPM, 70 Lb. Capacity Low Profile Semi-Automatic Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A-SA.	9,033.35	327.34
22 13 19 26-0032		Automatic Cleaning Stainless Steel Grease Interceptor (22 13 19 26) Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).		
22 13 19 26-0033	EA	20 GPM, 69 Lb. Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	7,708.39	257.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0034 EA 25 GPM, 91 Lb. Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	8,962.13	280.57
22 13 19 26-0035 EA 35 GPM, 70 Lb. Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	7,686.16	327.34
22 13 19 26-0036 Precast Concrete Grease Interceptor (22 13 19 26) Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor.....	5,528.36	471.03
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor.....	6,314.79	471.03
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor.....	7,167.74	538.49
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor.....	8,179.32	760.50
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor.....	9,234.93	1,023.19
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor.....	13,822.53	1,346.17
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor.....	17,819.25	2,207.52
22 13 19 26-0044 Coated Steel Manual Oil Interceptor (22 13 19 26) Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	5,503.20	356.13
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	7,419.80	423.15
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	8,984.00	520.65
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	9,756.91	563.98
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	11,719.29	615.43
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	15,463.80	677.04
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	25,995.70	779.38
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	28,409.94	958.95
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	34,896.37	1,039.38
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	48,860.76	1,247.01
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	56,375.91	1,340.54
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	71,038.19	1,598.67
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	85,845.72	1,309.98
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	101,693.04	1,558.76
22 13 19 33 Backwater Valves (22 13 19) 22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)		
22 13 19 33-0002 EA 2" Diameter, Cast Iron Body Terminal Backwater Valve.....	774.73	35.79
22 13 19 33-0003 EA 3" Diameter, Cast Iron Body Terminal Backwater Valve.....	788.45	45.01
22 13 19 33-0004 EA 4" Diameter, Cast Iron Body Terminal Backwater Valve.....	1,140.94	59.85
22 13 19 33-0005 EA 6" Diameter, Cast Iron Body Terminal Backwater Valve.....	3,126.38	81.59
22 13 19 33-0006 EA 8" Diameter, Cast Iron Body Terminal Backwater Valve.....	3,817.13	107.38
22 13 19 33-0007 EA 10" Diameter, Cast Iron Body Terminal Backwater Valve.....	11,187.44	132.48
22 13 19 33-0008 EA 12" Diameter, Cast Iron Body Terminal Backwater Valve.....	12,656.07	171.82
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33) Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	1,899.11	85.31
22 13 19 33-0011 EA 3" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	2,918.06	103.50
22 13 19 33-0012 EA 4" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	3,604.31	133.43
22 13 19 33-0013 EA 6" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	5,089.63	148.24
22 13 19 33-0014 EA 8" Diameter, Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	7,086.49	175.67
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33) Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Diameter, Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	5,283.46	135.05
22 13 19 33-0017 EA 4" Diameter, Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	5,350.30	179.57
22 13 19 33-0018 EA 5" Diameter, Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	7,811.38	219.55
22 13 19 33-0019 EA 6" Diameter, Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	7,849.55	244.76
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33) Note: Oatey.		
22 13 19 33-0021 EA 3" Diameter, Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900)	154.68	45.01
22 13 19 33-0022 EA 4" Diameter, Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904)	185.93	59.85
22 13 19 33-0023 EA 6" Diameter, Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908)	532.34	81.59
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33) Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0025 EA 3" Diameter, Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	362.98	90.04
22 13 19 33-0026 EA 4" Diameter, Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	483.33	119.71
22 13 19 33-0027 EA 6" Diameter, Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	826.32	163.18



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 36 Air-Admittance Valves (22 13 19)				
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)				
22 13 19 36-0002	EA	1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent	178.54	17.45
22 13 19 36-0003	EA	2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent	211.78	17.45
22 13 23 Sanitary Waste Interceptors (22 13)				
22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)				
22 13 23 00-0002	EA	1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180)..... Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,372.19	176.58
22 13 23 00-0003	EA	1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184)..... Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,373.88	176.58
22 13 23 00-0004	EA	1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0)..... Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,926.46	176.58
22 13 23 00-0005	EA	1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0)..... Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,926.46	176.58
22 13 23 00-0006	EA	1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030) Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	2,051.56	176.58
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)				
22 13 23 00-0008	EA	1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel..... <i>For Stainless Steel Bucket, Add</i>	343.34 175.00	60.39
22 13 23 00-0009	EA	2" Inlet Cast Iron Solid Interceptor, Painted Enamel..... <i>For Stainless Steel Bucket, Add</i>	351.07 175.00	64.31
22 13 23 00-0010 Sediment Strainers (22 13 23)				
22 13 23 00-0011	EA	2" Strainer, Pump Suction Side	212.88	82.27
22 13 29 Sanitary Sewerage Pumps (22 13) Note: Includes extra set of gaskets, bearings and seals.				
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)				
22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DeMing Series 4500) (22 13 29 13) Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.				
22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)				
22 13 29 13-0003	EA	1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Diameter, Discharge Pipe, 1,750 RPM	8,228.40	1,495.91
22 13 29 13-0004	EA	3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Diameter, Discharge Pipe, 1,750 RPM	8,550.27	1,495.91
22 13 29 13-0005	EA	1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Diameter, Discharge Pipe, 1,750 RPM	8,872.13	1,495.91
22 13 29 13-0006	EA	1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Diameter, Discharge Pipe, 1,750 RPM	9,179.14	1,495.91
22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)				
22 13 29 13-0008	EA	3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	9,119.72	1,495.91
22 13 29 13-0009	EA	1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	9,243.52	1,495.91
22 13 29 13-0010	EA	2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	9,330.17	1,495.91
22 13 29 13-0011	EA	3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	9,924.39	1,495.91
22 13 29 13-0012	EA	5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	10,506.23	1,495.91
22 13 29 13-0013	EA	7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	11,397.55	1,495.91
22 13 29 13-0014	EA	10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	12,288.87	1,495.91
22 13 29 13-0015	EA	15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Diameter, Discharge Pipe, 1,750 RPM	14,169.84	1,990.73
22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)				
22 13 29 13-0017	EA	2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	9,740.01	1,495.91
22 13 29 13-0018	EA	3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	9,740.01	1,495.91
22 13 29 13-0019	EA	5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	9,954.49	1,495.91
22 13 29 13-0020	EA	7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	11,618.69	1,495.91
22 13 29 13-0021	EA	10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	11,910.62	1,495.91



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0022	EA	15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	14,272.53	1,990.73
22 13 29 13-0023	EA	20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Diameter, Discharge Pipe, 1,750 RPM	15,015.30	1,990.73
22 13 29 13-0024		Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025	EA	2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026	EA	3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027	EA	4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028	EA	5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029	EA	6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030		Float Switches (22 13 29 13-0001)		
		Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031	EA	Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	
22 13 29 13-0032	EA	Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033	EA	Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034		Square Or Round Steel Sump Covers (22 13 29 13-0001)		
22 13 29 13-0035	EA	24" Steel Sump Covers, Square Or Round.....	901.51	49.88
22 13 29 13-0036	EA	30" Steel Sump Covers, Square Or Round.....	998.05	56.12
22 13 29 13-0037	EA	36" Steel Sump Covers, Square Or Round.....	1,384.91	74.82
22 13 29 13-0038	EA	40" Steel Sump Covers, Square Or Round.....	2,009.82	87.29
22 13 29 13-0039	EA	42" Steel Sump Covers, Square Or Round.....	2,154.66	90.41
22 13 29 13-0040	EA	48" Steel Sump Covers, Square Or Round.....	2,303.97	93.53
22 13 29 13-0041	EA	54" Steel Sump Covers, Square Or Round.....	2,934.95	112.23
22 13 29 13-0042	EA	60" Steel Sump Covers, Square Or Round.....	3,975.81	124.70
22 13 29 13-0043	EA	72" Steel Sump Covers, Square Or Round.....	5,041.82	155.87
22 13 29 13-0044	EA	84" Steel Sump Covers, Square Or Round.....	6,409.15	171.46
22 13 29 16		Submersible Sewerage Pumps (22 13 29)		
22 13 29 16-0001		Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)		
22 13 29 16-0002		Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)		
		Note: Includes 25' cord.		
22 13 29 16-0003	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,612.50	90.73
22 13 29 16-0004	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,718.31	90.73
22 13 29 16-0005	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,685.75	90.73
22 13 29 16-0006	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,841.76	90.73
22 13 29 16-0007	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,841.76	90.73
22 13 29 16-0008	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,950.16	113.41
22 13 29 16-0009	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	2,088.53	113.41
22 13 29 16-0010	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	2,106.17	113.41
22 13 29 16-0011		Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
		Note: Includes 20' cord.		
22 13 29 16-0012	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,642.34	90.73
22 13 29 16-0013	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,794.28	90.73
22 13 29 16-0014	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,722.38	90.73
22 13 29 16-0015	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,868.89	90.73
22 13 29 16-0016	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,000.48	90.73
22 13 29 16-0017	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,866.05	113.41
22 13 29 16-0018	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,023.42	113.41
22 13 29 16-0019	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,022.06	113.41
22 13 29 16-0020	EA	1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,322.85	182.80
22 13 29 16-0021	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,455.79	182.80
22 13 29 16-0022	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,478.85	182.80
22 13 29 16-0023	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,489.46	223.42



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0024	EA	2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller		2,641.40	223.42
22 13 29 16-0025	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller		2,645.47	223.42
22 13 29 16-0026 Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001) Note: Includes 20' cord.					
22 13 29 16-0027	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller		1,946.22	90.73
22 13 29 16-0028	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller		2,203.98	90.73
22 13 29 16-0029	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller		2,155.01	113.41
22 13 29 16-0030	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller		2,311.02	113.41
22 13 29 16-0031	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller		2,633.51	182.80
22 13 29 16-0032	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller		2,789.52	182.80
22 13 29 16-0033	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller		2,801.48	223.42
22 13 29 16-0034	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller		2,957.48	223.42
22 13 29 16-0035 Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16) Note: Includes 25' of cord with pump.					
22 13 29 16-0036	EA	1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller		5,744.82	113.41
22 13 29 16-0037	EA	1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller		6,097.34	183.71
22 13 29 16-0038	EA	2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller		6,511.75	224.53
22 13 29 16-0039	EA	3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller		6,791.54	272.16
22 13 29 16-0040	EA	5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller		7,614.37	319.79
22 13 29 16-0041	EA	7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller		8,500.73	367.41
22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof (22 13 29 16) Note: Includes 25' of cord with pump.					
22 13 29 16-0043	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		8,573.82	406.43
22 13 29 16-0044	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		7,904.29	406.43
22 13 29 16-0045	EA	1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		7,904.29	406.43
22 13 29 16-0046	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		8,973.09	541.91
22 13 29 16-0047	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		8,303.56	541.91
22 13 29 16-0048	EA	1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		8,303.56	541.91
22 13 29 16-0049	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		9,510.47	677.39
22 13 29 16-0050	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		8,840.94	677.39
22 13 29 16-0051	EA	2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		8,840.94	677.39
22 13 29 16-0052	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		9,918.12	812.87
22 13 29 16-0053	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		9,248.60	812.87
22 13 29 16-0054	EA	3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		9,248.60	812.87
22 13 29 16-0055	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		10,949.27	948.35
22 13 29 16-0056	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		10,279.74	948.35
22 13 29 16-0057	EA	5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		10,279.74	948.35
22 13 29 16-0058	EA	7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		11,326.24	1,083.82
22 13 29 16-0059	EA	7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller		11,326.24	1,083.82
22 13 29 16-0060 Submersible Sewage Pump Accessories (22 13 29 16)					

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0061	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light and alarm float switch.	790.36	101.61
22 13 29 16-0062	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light, and alarm float switch.	816.28	101.61
22 13 29 16-0063	EA	Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light, and three 20' control float switches.	1,608.56	135.48
22 13 29 16-0064	EA	Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn and warning light. Control float switches not included.	2,272.19	135.48
22 13 29 16-0065	EA	Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	5,389.58	135.48
22 13 29 16-0066	EA	Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	5,639.73	135.48
22 13 29 16-0067	EA	Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	9,020.98	169.34
22 13 29 16-0068	EA	Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	7,597.95	169.34
22 13 29 16-0069	EA	Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,783.89	169.34
22 13 29 16-0070	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,965.34	169.34
22 13 29 16-0071	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,886.28	169.34
22 13 29 16-0072	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	2,049.81	169.34
22 13 29 16-0073	EA	Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn and warning light. Float switches not included.	3,510.48	169.34
22 13 29 16-0074	EA	Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure..... Note: Includes alarm horn, warning light and 15' tethered float.	655.24	67.74
22 13 29 16-0075	EA	Variable Level (Clamp Type) Float Switch With 15' Cord..... Note: Not for use with Intrinsically Safe Control Systems.	124.77	33.87
22 13 29 16-0076	EA	Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only.....	151.88	33.87
22 13 29 16-0077	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord..... Note: Not for use with Intrinsically Safe Control Systems.	159.61	33.87
22 13 29 16-0078	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only.....	170.96	33.87
22 13 29 16-0079	EA	Float Switch Tree With (3) 15' Floats..... Note: Not for use with Intrinsically Safe Control Systems.	476.31	33.87
22 13 29 16-0080	EA	Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only.....	554.39	33.87
22 13 29 16-0081	EA	Float Switch Tree And (4) Floats With 15' Cords..... Note: Not for use with Intrinsically Safe Control Systems.	530.25	33.87
22 13 29 16-0082	EA	Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only.....	632.02	33.87
22 13 29 16-0083	EA	Float Switch Tree..... Note: Tree only.	254.03	33.87
22 13 29 16-0084	EA	Adjustable Weight For Float Switch.....	68.04	16.93
22 13 29 16-0085	EA	Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge..... Note: Lifting equipment not included.	1,340.95	101.61
22 13 29 16-0086	EA	Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge..... Note: Lifting equipment not included.	2,102.12	135.48
22 13 29 16-0087	EA	Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge..... Note: Lifting equipment not included.	2,745.64	169.34
22 13 29 16-0088	EA	Rail And Disconnect System, Stainless Steel Non-Spearking, For 3" Horizontal Discharge.....	3,081.49	101.61
22 13 29 16-0089	EA	Rail And Disconnect System, Stainless Steel Non-Spearking, For 4" Horizontal Discharge.....	4,359.81	101.61
22 13 29 16-0090	EA	Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System.....	386.29	67.74
22 13 29 16-0091	EA	Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems.....	680.40	84.67
22 13 29 16-0092	EA	Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems.....	681.91	101.61
22 13 29 16-0093	EA	12" Stainless Steel Lifting Cable.....	190.45	33.87
22 13 29 16-0094	EA	Disconnect Fitting For 2" Horizontal Discharge..... Note: Used for shallow systems where guide rails are not necessary.	376.54	33.87

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)**22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)****22 13 29 33-0002 High-Density Polyethylene (HDPE) Basin (22 13 29 33-0001)**

22 13 29 33-0003	EA	18" Diameter x 24" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	169.63	
22 13 29 33-0004	EA	18" Diameter x 30" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	219.63	
22 13 29 33-0005	EA	24" Diameter x 30" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	501.61	
22 13 29 33-0006	EA	24" Diameter x 36" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	704.80	
22 13 29 33-0007	EA	30" Diameter x 36" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	908.00	
22 13 29 33-0008	EA	36" Diameter x 36" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	1,056.49	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)		
22 13 29 33-0010 EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	354.80	
22 13 29 33-0011 EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	709.41	
22 13 29 33-0012 EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,265.20	
22 13 29 33-0013 EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,698.61	
22 13 29 33-0014 EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	1,955.77	
22 13 29 33-0015 EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub	2,065.69	
22 13 29 33-0016 EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub	2,424.45	
22 13 29 33-0017 EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	2,814.34	
22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities (22)		
22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities (22 60)		
22 66 53 Laboratory Chemical-Waste and Vent Piping (22 66)		
22 66 53 00-0001 Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
22 66 53 00-0002 Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fuseal Fittings (22 66 53 00-0001)		
22 66 53 00-0003 Schedule 40 Polypropylene Acid Resistant DWV Pipe (22 66 53 00-0002)		
22 66 53 00-0004 LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe	15.51	7.11
For Schedule 80, Add	2.50	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	2.14	
For Work In Restricted Working Space, Add	3.21	
22 66 53 00-0005 LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe	18.56	7.98
For Schedule 80, Add	3.39	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	2.90	
For Work In Restricted Working Space, Add	3.62	
22 66 53 00-0006 LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe	29.19	11.60
For Schedule 80, Add	6.11	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	5.23	
For Work In Restricted Working Space, Add	5.23	
22 66 53 00-0007 LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe	39.36	15.09
For Schedule 80, Add	8.68	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	7.43	
For Work In Restricted Working Space, Add	6.80	
22 66 53 00-0008 LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe	63.33	22.20
For Schedule 80, Add	15.64	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	13.39	
For Work In Restricted Working Space, Add	9.98	
22 66 53 00-0009 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends (22 66 53 00-0002)		
22 66 53 00-0010 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend	59.65	26.81
For Work In Restricted Working Space, Add	12.07	
22 66 53 00-0011 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend	77.18	35.41
For Work In Restricted Working Space, Add	15.92	
22 66 53 00-0012 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend	101.77	40.53
For Work In Restricted Working Space, Add	18.25	
22 66 53 00-0013 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend	145.63	53.62
For Work In Restricted Working Space, Add	24.14	
22 66 53 00-0014 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend	278.93	79.18
For Work In Restricted Working Space, Add	35.63	
22 66 53 00-0015 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0016 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend	59.31	26.81
For Work In Restricted Working Space, Add	12.07	
22 66 53 00-0017 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend	76.31	35.41
For Work In Restricted Working Space, Add	15.92	
22 66 53 00-0018 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend	103.44	40.53
For Work In Restricted Working Space, Add	18.25	
22 66 53 00-0019 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend	128.79	53.62
For Work In Restricted Working Space, Add	24.14	
22 66 53 00-0020 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend	252.83	79.18
For Work In Restricted Working Space, Add	35.63	
22 66 53 00-0021 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0022 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee	110.11	57.36
For Work In Restricted Working Space, Add	25.80	
22 66 53 00-0023 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee	137.33	72.33
For Work In Restricted Working Space, Add	32.53	
22 66 53 00-0024 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee	176.57	79.18
For Work In Restricted Working Space, Add	35.63	

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0025	EA	4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	242.42 46.76	104.00
22 66 53 00-0026	EA	6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	421.53 74.82	166.35
22 66 53 00-0027 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees (22 66 53 00-0002)				
22 66 53 00-0028	EA	2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	137.29 32.53	72.33
22 66 53 00-0029	EA	3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	172.53 35.63	79.18
22 66 53 00-0030	EA	3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	168.95 35.63	79.18
22 66 53 00-0031	EA	4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	233.22 46.76	104.00
22 66 53 00-0032	EA	4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	236.69 46.76	104.00
22 66 53 00-0033	EA	6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	395.92 74.82	166.35
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug (22 66 53 00-0002)				
22 66 53 00-0035	EA	1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	121.89 25.80	57.36
22 66 53 00-0036	EA	2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	140.18 32.53	72.33
22 66 53 00-0037	EA	3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	185.28 35.63	79.18
22 66 53 00-0038	EA	4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	246.44 46.76	104.00
22 66 53 00-0039	EA	6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	371.86 74.82	166.35
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes (22 66 53 00-0002)				
22 66 53 00-0041	EA	1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	116.72 25.80	57.36
22 66 53 00-0042	EA	2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	143.45 32.53	72.33
22 66 53 00-0043	EA	3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	180.22 35.63	79.18
22 66 53 00-0044	EA	4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	245.45 46.76	104.00
22 66 53 00-0045	EA	6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	476.80 74.82	166.35
22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes (22 66 53 00-0002)				
22 66 53 00-0047	EA	2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	151.54 32.53	72.33
22 66 53 00-0048	EA	3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	176.06 35.63	79.18
22 66 53 00-0049	EA	3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	176.06 35.63	79.18
22 66 53 00-0050	EA	4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	241.86 46.76	104.00
22 66 53 00-0051	EA	4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	241.86 46.76	104.00
22 66 53 00-0052	EA	6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	429.19 74.82	166.35
22 66 53 00-0053	EA	6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	431.98 74.82	166.35
22 66 53 00-0054	EA	6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	397.09 74.82	166.35
22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses (22 66 53 00-0002)				
22 66 53 00-0056	EA	1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	145.30 32.25	71.70
22 66 53 00-0057	EA	2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	180.83 40.66	90.41
22 66 53 00-0058	EA	3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	239.06 44.54	99.01
22 66 53 00-0059	EA	4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	330.53 58.46	129.94
22 66 53 00-0060	EA	6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	581.60 93.53	207.87



Plumbing		22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	107.96 25.80	57.36
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	140.52 32.53	72.33
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	159.82 35.63	79.18
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	219.71 46.76	104.00
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	130.98 32.53	72.33
22 66 53 00-0067 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	155.98 35.63	79.18
22 66 53 00-0068 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	157.52 35.63	79.18
22 66 53 00-0069 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	214.00 46.76	104.00
22 66 53 00-0070 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	214.98 46.76	104.00
22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)		
22 66 53 00-0072 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap For Work In Restricted Working Space, Add	127.31 29.93	66.60
22 66 53 00-0073 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap For Work In Restricted Working Space, Add	169.16 39.38	87.54
22 66 53 00-0074 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap For Work In Restricted Working Space, Add	252.69 53.44	118.84
22 66 53 00-0075 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap For Work In Restricted Working Space, Add	352.00 68.02	151.26
22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)		
22 66 53 00-0077 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter For Work In Restricted Working Space, Add	58.73 12.07	26.81
22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter For Work In Restricted Working Space, Add	72.35 15.92	35.41
22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter For Work In Restricted Working Space, Add	84.69 18.25	40.53
22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter For Work In Restricted Working Space, Add	114.85 24.14	53.62
22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter For Work In Restricted Working Space, Add	170.27 35.63	79.18
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter For Work In Restricted Working Space, Add	56.41 12.07	26.81
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter For Work In Restricted Working Space, Add	74.10 15.92	35.41
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter For Work In Restricted Working Space, Add	87.91 18.25	40.53
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter For Work In Restricted Working Space, Add	118.01 24.14	53.62
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling For Work In Restricted Working Space, Add	53.53 12.07	26.81
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling For Work In Restricted Working Space, Add	68.92 15.92	35.41
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling For Work In Restricted Working Space, Add	80.07 18.25	40.53
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling For Work In Restricted Working Space, Add	105.90 24.14	53.62
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling For Work In Restricted Working Space, Add	155.75 35.63	79.18
22 66 53 00-0093 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
Note: Acid resistant. ASTM A518.		
22 66 53 00-0094 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0093)		
22 66 53 00-0095 LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	122.50	11.09
22 66 53 00-0096 LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	172.38	13.84
22 66 53 00-0097 LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	234.53	15.96
22 66 53 00-0098 LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	384.54	22.18
22 66 53 00-0099 LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	678.58	29.73

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0100 LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	1,200.12	37.49
22 66 53 00-0101 LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	2,140.05	50.50
22 66 53 00-0102 LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	3,811.81	57.90
22 66 53 00-0103 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0093)		
22 66 53 00-0104 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0103)		
22 66 53 00-0105 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	490.16	94.53
22 66 53 00-0106 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	640.49	104.00
22 66 53 00-0107 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	1,039.78	124.45
22 66 53 00-0108 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	1,545.34	146.48
22 66 53 00-0109 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	3,551.46	238.89
22 66 53 00-0110 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0103)		
22 66 53 00-0111 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	285.89	94.53
22 66 53 00-0112 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	372.15	104.00
22 66 53 00-0113 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	467.04	124.45
22 66 53 00-0114 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,228.94	146.48
22 66 53 00-0115 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	2,789.28	238.89
22 66 53 00-0116 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	4,236.57	297.63
22 66 53 00-0117 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	6,221.99	357.91
22 66 53 00-0118 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0103)		
22 66 53 00-0119 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	285.89	94.53
22 66 53 00-0120 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	372.15	104.00
22 66 53 00-0121 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	467.04	124.45
22 66 53 00-0122 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	900.51	146.48
22 66 53 00-0123 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,364.74	238.89
22 66 53 00-0124 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	3,456.16	297.63
22 66 53 00-0125 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	4,900.90	357.91
22 66 53 00-0126 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0103)		
22 66 53 00-0127 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	285.89	94.53
22 66 53 00-0128 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	372.15	104.00
22 66 53 00-0129 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	466.74	124.33
22 66 53 00-0130 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps (22 66 53 00-0103)		
22 66 53 00-0131 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	390.03	94.53
22 66 53 00-0132 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	688.55	104.00
22 66 53 00-0133 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	771.43	124.45
22 66 53 00-0134 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees (22 66 53 00-0103)		
22 66 53 00-0135 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	404.33	141.41
22 66 53 00-0136 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	507.37	156.75
22 66 53 00-0137 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	705.19	187.18
22 66 53 00-0138 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	1,171.12	220.14
22 66 53 00-0139 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	3,585.62	358.63
22 66 53 00-0140 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	5,090.93	447.81
22 66 53 00-0141 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0103)		
22 66 53 00-0142 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	379.50	135.55
22 66 53 00-0143 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	442.51	145.53
22 66 53 00-0144 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	494.18	150.63
22 66 53 00-0145 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	565.81	166.35
22 66 53 00-0146 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	605.80	171.59
22 66 53 00-0147 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	665.34	176.70
22 66 53 00-0148 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	826.96	190.49
22 66 53 00-0149 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	917.77	195.39
22 66 53 00-0150 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	1,027.36	204.38
22 66 53 00-0151 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees (22 66 53 00-0103)		
22 66 53 00-0152 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	460.32	141.41
22 66 53 00-0153 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	554.81	156.38
22 66 53 00-0154 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	757.21	187.18
22 66 53 00-0155 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees (22 66 53 00-0103)		



	Plumbing	22	
	Gas and Vacuum Systems for Laboratory and Healthcare Facilities	22 60	22
	Chemical-Waste Systems for Laboratory and Healthcare Facilities	22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0156 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	435.53	135.55
22 66 53 00-0157 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	543.30	151.39
22 66 53 00-0158 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	654.58	172.09
22 66 53 00-0159 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	702.17	177.20
22 66 53 00-0160 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0103)		
22 66 53 00-0161 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	400.57	141.66
22 66 53 00-0162 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	551.43	156.75
22 66 53 00-0163 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	704.97	187.06
22 66 53 00-0164 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	1,177.86	219.32
22 66 53 00-0165 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	4,490.23	358.27
22 66 53 00-0166 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0103)		
22 66 53 00-0167 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	411.50	135.55
22 66 53 00-0168 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	442.45	145.53
22 66 53 00-0169 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	467.47	151.51
22 66 53 00-0170 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	521.75	166.35
22 66 53 00-0171 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	542.02	171.83
22 66 53 00-0172 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	650.10	177.20
22 66 53 00-0173 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	870.72	190.72
22 66 53 00-0174 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,033.92	195.39
22 66 53 00-0175 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,079.42	204.38
22 66 53 00-0176 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,640.21	289.03
22 66 53 00-0177 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,850.76	298.58
22 66 53 00-0178 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	3,486.36	313.86
22 66 53 00-0179 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0103)		
22 66 53 00-0180 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	476.27	141.41
22 66 53 00-0181 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	566.83	156.38
22 66 53 00-0182 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	837.31	187.18
22 66 53 00-0183 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	1,282.42	219.55
22 66 53 00-0184 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0103)		
22 66 53 00-0185 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	395.48	135.55
22 66 53 00-0186 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	458.47	145.53
22 66 53 00-0187 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	507.25	151.39
22 66 53 00-0188 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	549.78	166.35
22 66 53 00-0189 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	634.55	172.09
22 66 53 00-0190 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	718.12	177.07
22 66 53 00-0191 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	922.71	190.72
22 66 53 00-0192 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	1,150.17	195.51
22 66 53 00-0193 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	1,260.15	204.73
22 66 53 00-0194 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers (22 66 53 00-0103)		
22 66 53 00-0195 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	245.59	89.04
22 66 53 00-0196 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	269.07	94.02
22 66 53 00-0197 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	300.60	99.01
22 66 53 00-0198 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	481.01	109.74
22 66 53 00-0199 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	504.53	114.85
22 66 53 00-0200 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	543.74	122.21
22 66 53 00-0201 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	705.91	131.55
22 66 53 00-0202 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	1,025.55	179.20
22 66 53 00-0203 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	1,092.39	194.36
22 66 53 00-0204 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increases (22 66 53 00-0103)		
22 66 53 00-0205 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	656.20	207.87
22 66 53 00-0206 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	864.47	207.87
22 66 53 00-0207 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	883.16	207.87
22 66 53 00-0208 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	989.27	272.54
22 66 53 00-0209 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0103)		
22 66 53 00-0210 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	726.46	94.53
22 66 53 00-0211 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	876.79	104.00
22 66 53 00-0212 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	1,067.81	124.45
22 66 53 00-0213 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	3,139.39	146.48

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0214		Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs ^(22 66 53 00-0103)		
22 66 53 00-0215	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	361.99	94.53
22 66 53 00-0216	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	456.25	104.00
22 66 53 00-0217	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	627.24	124.45
22 66 53 00-0218	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	803.72	146.48
22 66 53 00-0219	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	1,564.08	204.38
22 66 53 00-0220		Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings ^(22 66 53 00-0093)		
		Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.		
22 66 53 00-0221	LB	Lead (1 Lb./Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	6.88	
22 66 53 00-0222	LB	Seal-Tite Packing (1/8 Lb./Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings	73.43	
22 66 53 00-0223		Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings ^(22 66 53)		
		Note: ASTM A518.		
22 66 53 00-0224		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe ^(22 66 53 00-0223)		
22 66 53 00-0225	LF	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	97.18	8.36
22 66 53 00-0226	LF	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	110.58	9.23
22 66 53 00-0227	LF	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	152.50	11.60
22 66 53 00-0228	LF	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	192.33	13.47
22 66 53 00-0229		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings ^(22 66 53 00-0223)		
22 66 53 00-0230		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps ^(22 66 53 00-0229)		
22 66 53 00-0231	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	359.64	66.21
22 66 53 00-0232	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	388.58	74.82
22 66 53 00-0233	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	532.23	82.56
22 66 53 00-0234	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	642.27	99.76
22 66 53 00-0235		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends ^(22 66 53 00-0229)		
22 66 53 00-0236	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	203.44	66.21
22 66 53 00-0237	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	243.23	74.08
22 66 53 00-0238	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	312.38	82.80
22 66 53 00-0239	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	408.85	99.01
22 66 53 00-0240	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	237.06	69.96
22 66 53 00-0241		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends ^(22 66 53 00-0229)		
22 66 53 00-0242	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	203.44	66.21
22 66 53 00-0243	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	243.23	74.08
22 66 53 00-0244	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	312.38	82.80
22 66 53 00-0245	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	408.85	99.01
22 66 53 00-0246		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends ^(22 66 53 00-0229)		
22 66 53 00-0247	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	239.49	66.21
22 66 53 00-0248	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	299.30	74.08
22 66 53 00-0249	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	460.57	82.80
22 66 53 00-0250	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	516.99	99.01
22 66 53 00-0251		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends ^(22 66 53 00-0229)		
22 66 53 00-0252	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	231.48	66.21
22 66 53 00-0253	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	275.27	74.08
22 66 53 00-0254	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	424.53	82.80
22 66 53 00-0255	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	480.95	99.01
22 66 53 00-0256		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends ^(22 66 53 00-0229)		
22 66 53 00-0257	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	349.64	99.64
22 66 53 00-0258		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees ^(22 66 53 00-0229)		
22 66 53 00-0259	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	285.56	99.64
22 66 53 00-0260	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	352.50	112.23



Plumbing		22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0261 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	463.87	125.07
22 66 53 00-0262 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	701.07	149.77
22 66 53 00-0263 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees (22 66 53 00-0229)		
22 66 53 00-0264 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	330.15	107.99
22 66 53 00-0265 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	402.84	116.47
22 66 53 00-0266 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	429.05	120.58
22 66 53 00-0267 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	459.75	133.06
22 66 53 00-0268 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	505.53	136.79
22 66 53 00-0269 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	547.78	140.91
22 66 53 00-0270 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0229)		
22 66 53 00-0271 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	286.06	100.01
22 66 53 00-0272 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	336.48	112.23
22 66 53 00-0273 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	447.85	125.07
22 66 53 00-0274 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	701.07	149.77
22 66 53 00-0275 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0229)		
22 66 53 00-0276 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	318.96	108.61
22 66 53 00-0277 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	390.81	116.34
22 66 53 00-0278 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	409.56	120.96
22 66 53 00-0279 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	460.35	133.43
22 66 53 00-0280 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	506.66	137.54
22 66 53 00-0281 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	536.30	141.29
22 66 53 00-0282 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes (22 66 53 00-0229)		
22 66 53 00-0283 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	427.96	133.18
22 66 53 00-0284 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	545.05	149.89
22 66 53 00-0285 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	697.18	165.86
22 66 53 00-0286 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	907.74	199.39
22 66 53 00-0287 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	471.85	141.03
22 66 53 00-0288 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	528.35	149.39
22 66 53 00-0289 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	628.91	157.62
22 66 53 00-0290 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	694.23	174.58
22 66 53 00-0291 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	835.66	183.43
22 66 53 00-0292 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses (22 66 53 00-0229)		
22 66 53 00-0293 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	475.94	133.18
22 66 53 00-0294 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	560.78	149.64
22 66 53 00-0295 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	802.73	166.73
22 66 53 00-0296 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	1,120.32	199.64
22 66 53 00-0297 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	511.84	141.03
22 66 53 00-0298 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	668.48	149.39
22 66 53 00-0299 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	704.92	157.62
22 66 53 00-0300 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	754.24	174.46
22 66 53 00-0301 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	958.85	182.69
22 66 53 00-0302 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0303 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	317.12	99.26
22 66 53 00-0304 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	368.52	112.23
22 66 53 00-0305 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	447.85	125.07
22 66 53 00-0306 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	745.13	149.77
22 66 53 00-0307 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0308 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	350.27	108.12
22 66 53 00-0309 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	391.29	116.72
22 66 53 00-0310 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	425.58	120.96
22 66 53 00-0311 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	576.50	133.43
22 66 53 00-0312 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	590.76	137.54
22 66 53 00-0313 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	660.46	141.29

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0314		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0315	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	503.71	132.93
22 66 53 00-0316	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	632.76	149.51
22 66 53 00-0317	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	909.97	166.23
22 66 53 00-0318	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	1,092.93	200.02
22 66 53 00-0319		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0320	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	547.88	141.03
22 66 53 00-0321	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	656.44	149.27
22 66 53 00-0322	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	684.90	157.62
22 66 53 00-0323	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	762.25	174.46
22 66 53 00-0324	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	958.85	182.69
22 66 53 00-0325		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers (22 66 53 00-0229)		
22 66 53 00-0326	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	238.11	70.70
22 66 53 00-0327	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	268.37	74.82
22 66 53 00-0328	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	315.11	87.29
22 66 53 00-0329	EA	4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	372.65	82.93
22 66 53 00-0330	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	394.89	87.04
22 66 53 00-0331	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	417.12	91.16
22 66 53 00-0332		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees (22 66 53 00-0229)		
22 66 53 00-0333	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	219.45	58.24
22 66 53 00-0334	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	254.93	65.84
22 66 53 00-0335	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	299.97	74.57
22 66 53 00-0336	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	544.67	90.78
22 66 53 00-0337		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs (22 66 53 00-0229)		
22 66 53 00-0338	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	97.72	33.17
22 66 53 00-0339	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	115.61	37.04
22 66 53 00-0340	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	126.15	41.40
22 66 53 00-0341	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	162.38	49.50
22 66 53 00-0342		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0229)		
22 66 53 00-0343	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	399.12	65.84
22 66 53 00-0344	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	411.45	74.08
22 66 53 00-0345	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	508.63	82.80
22 66 53 00-0346	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	649.16	99.01
22 66 53 00-0347	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	554.69	70.83
22 66 53 00-0348	EA	2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	763.41	79.06
22 66 53 00-0349	EA	3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	923.85	87.29
22 66 53 00-0350	EA	4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	1,149.13	104.00
22 66 53 00-0351		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps (22 66 53 00-0229)		
22 66 53 00-0352	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	741.49	75.20
22 66 53 00-0353	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	1,170.05	83.17
22 66 53 00-0354	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	773.08	74.82
22 66 53 00-0355	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	1,170.05	83.17
22 66 53 00-0356		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps (22 66 53 00-0229)		
22 66 53 00-0357	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	688.97	74.82
22 66 53 00-0358	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	809.59	83.17
22 66 53 00-0359	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap.....	797.11	74.82
22 66 53 00-0360	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	1,750.80	83.17
22 66 53 00-0361	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	1,041.89	83.17
22 66 53 00-0362		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends (22 66 53 00-0229)		



Plumbing			22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities			22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities			22 66

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0363 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	288.00	66.60
22 66 53 00-0364 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	376.57	74.82
22 66 53 00-0365 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters (22 66 53 00-0229)		
22 66 53 00-0366 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	146.91	49.88
22 66 53 00-0367 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	269.29	54.12
22 66 53 00-0368 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	197.66	62.36
22 66 53 00-0369 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter (22 66 53 00-0229)		
22 66 53 00-0370 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	274.66	70.96
22 66 53 00-0371 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	300.41	74.82
22 66 53 00-0372 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	334.68	78.93
22 66 53 00-0373 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	358.84	87.04
22 66 53 00-0374 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	334.74	79.06
22 66 53 00-0375 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	352.93	83.17
22 66 53 00-0376 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	381.07	91.16
22 66 53 00-0377 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	431.32	87.29
22 66 53 00-0378 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter.....	532.35	104.00
22 66 53 00-0379 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0229)		
22 66 53 00-0380 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	96.12	
22 66 53 00-0381 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	112.14	
22 66 53 00-0382 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	120.15	
22 66 53 00-0383 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	132.17	
22 66 53 00-0384 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings (22 66 53 00-0229)		
22 66 53 00-0385 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet.....	710.73	33.29
22 66 53 00-0386 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper.....	269.25	16.59
22 66 53 00-0387 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow.....	501.55	16.59
22 66 53 00-0388 Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates (22 66 53 00-0229)		
22 66 53 00-0389 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer.....	2,548.35	166.35
22 66 53 00-0390 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer.....	3,145.57	174.71
22 66 53 00-0391 EA Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain.....	2,115.61	16.59
22 66 53 00-0392 Chlorinated Polyvinyl Chloride (CPVC) Drain-Waste-Vent (DWV) Pipe And Fittings (ASTM F2618) (22 66 53)		
22 66 53 00-0393 Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe (22 66 53 00-0392)		
Note: Excludes fittings or hangers.		
22 66 53 00-0394 LF 1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	14.38	5.24
22 66 53 00-0395 LF 2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	18.24	6.24
22 66 53 00-0396 LF 3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	29.48	8.97
22 66 53 00-0397 LF 4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	37.35	9.73
22 66 53 00-0398 LF 6" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	58.64	11.68
22 66 53 00-0399 LF 8" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	127.99	15.53
22 66 53 00-0400 Chlorinated Polyvinyl Chloride (CPVC) DWV Fittings (22 66 53 00-0392)		
22 66 53 00-0401 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends (22 66 53 00-0400)		
22 66 53 00-0402 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	56.39	20.83
Note: 0.125		
For Work In Restricted Working Space, Add		
	9.35	
22 66 53 00-0403 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	71.22	26.56
Note: 0.16		
For Work In Restricted Working Space, Add		
	11.97	
22 66 53 00-0404 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	106.82	35.66
Note: 0.215		
For Work In Restricted Working Space, Add		
	16.09	
22 66 53 00-0405 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	147.00	41.53
Note: 0.25		
For Work In Restricted Working Space, Add		
	18.71	
22 66 53 00-0406 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	300.08	54.00
Note: 0.325		
For Work In Restricted Working Space, Add		
	24.32	
22 66 53 00-0407 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	414.40	72.70
Note: 0.438		
For Work In Restricted Working Space, Add		
	32.73	

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0408 Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends (22 66 53 00-0400)		
22 66 53 00-0409 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	57.26 9.35	20.83
22 66 53 00-0410 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	75.46 11.97	26.56
22 66 53 00-0411 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	114.47 16.09	35.66
22 66 53 00-0412 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	149.80 18.71	41.53
22 66 53 00-0413 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends (22 66 53 00-0400)		
22 66 53 00-0414 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	55.95 9.35	20.83
22 66 53 00-0415 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	70.08 11.97	26.56
22 66 53 00-0416 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	109.01 16.09	35.66
22 66 53 00-0417 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	125.14 18.71	41.53
22 66 53 00-0418 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	264.40 24.32	54.00
22 66 53 00-0419 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	373.49 32.73	72.70
22 66 53 00-0420 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends (22 66 53 00-0400)		
22 66 53 00-0421 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	56.44 9.35	20.83
22 66 53 00-0422 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	70.04 11.97	26.56
22 66 53 00-0423 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	108.10 16.09	35.66
22 66 53 00-0424 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	132.26 18.71	41.53
22 66 53 00-0425 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	220.81 24.32	54.00
22 66 53 00-0426 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends <i>For Work In Restricted Working Space, Add</i>	253.22 32.73	72.70
22 66 53 00-0427 Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends (22 66 53 00-0400)		
22 66 53 00-0428 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	287.18 24.13	53.62
22 66 53 00-0429 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	221.56 17.96	39.90
22 66 53 00-0430 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	139.28 14.03	31.17
22 66 53 00-0431 Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees (22 66 53 00-0400)		
22 66 53 00-0432 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	78.08 14.03	31.17
22 66 53 00-0433 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	97.37 17.96	39.90
22 66 53 00-0434 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	155.53 24.13	53.62
22 66 53 00-0435 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	206.01 28.06	62.36
22 66 53 00-0436 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	496.50 36.47	80.93
22 66 53 00-0437 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	686.11 49.10	108.99
22 66 53 00-0438 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees (22 66 53 00-0400)		
22 66 53 00-0439 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	88.58 15.34	34.04
22 66 53 00-0440 EA 2" x 1-1/2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	94.64 16.65	36.91
22 66 53 00-0441 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	92.94 16.65	36.91
22 66 53 00-0442 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	134.39 20.76	46.14
22 66 53 00-0443 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	143.65 22.07	49.01
22 66 53 00-0444 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	182.80 24.69	54.87



		Plumbing	22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60	22
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0445 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	194.16 26.75	59.36
22 66 53 00-0446 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	374.77 33.67	74.69
22 66 53 00-0447 EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	824.92 42.09	93.40
22 66 53 00-0448 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees (22 66 53 00-0400)		
22 66 53 00-0449 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	109.56 18.71	41.53
22 66 53 00-0450 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	135.47 23.94	53.12
22 66 53 00-0451 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	181.68 32.18	71.45
22 66 53 00-0452 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	224.04 37.41	83.05
22 66 53 00-0453 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Sanitary Tees (22 66 53 00-0400)		
22 66 53 00-0454 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	133.25 21.32	47.38
22 66 53 00-0455 EA 3" x 3" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	159.11 25.44	56.49
22 66 53 00-0456 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	198.14 28.06	62.36
22 66 53 00-0457 EA 4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	182.97 30.68	68.09
22 66 53 00-0458 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	205.10 34.79	77.19
22 66 53 00-0459 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers (22 66 53 00-0400)		
22 66 53 00-0460 EA 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	74.09 10.66	23.69
22 66 53 00-0461 EA 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	83.09 12.72	28.18
22 66 53 00-0462 EA 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	128.16 14.03	31.17
22 66 53 00-0463 EA 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	140.58 15.34	34.04
22 66 53 00-0464 EA 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	155.58 17.39	38.65
22 66 53 00-0465 EA 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	207.30 20.20	44.89
22 66 53 00-0466 EA 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	236.74 21.51	47.76
22 66 53 00-0467 Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushings (22 66 53 00-0400)		
22 66 53 00-0468 EA 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	56.54 10.66	23.69
22 66 53 00-0469 EA 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	64.60 12.72	28.18
22 66 53 00-0470 EA 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	70.96 14.03	31.17
22 66 53 00-0471 EA 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	104.85 15.34	34.04
22 66 53 00-0472 EA 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	112.94 17.39	38.65
22 66 53 00-0473 EA 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	168.17 20.20	44.89
22 66 53 00-0474 EA 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	167.86 21.51	47.76
22 66 53 00-0475 EA 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	435.29 25.74	57.12
22 66 53 00-0476 EA 8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	459.75 28.54	63.34
22 66 53 00-0477 Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps (22 66 53 00-0400)		
22 66 53 00-0478 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	95.94 14.03	31.17
22 66 53 00-0479 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	128.46 17.96	39.90
22 66 53 00-0480 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	204.99 24.13	53.62
22 66 53 00-0481 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	314.91 28.06	62.36

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0482 Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes (22 66 53 00-0400)		
22 66 53 00-0483 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	78.69	31.17
For Work In Restricted Working Space, Add	14.03	
22 66 53 00-0484 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	104.64	39.90
For Work In Restricted Working Space, Add	17.96	
22 66 53 00-0485 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	160.28	53.62
For Work In Restricted Working Space, Add	24.13	
22 66 53 00-0486 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	209.90	62.36
For Work In Restricted Working Space, Add	28.06	
22 66 53 00-0487 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	417.01	80.93
For Work In Restricted Working Space, Add	36.47	
22 66 53 00-0488 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	485.23	108.99
For Work In Restricted Working Space, Add	49.10	
22 66 53 00-0489 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes (22 66 53 00-0400)		
22 66 53 00-0490 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	86.04	34.04
For Work In Restricted Working Space, Add	15.34	
22 66 53 00-0491 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	100.28	36.91
For Work In Restricted Working Space, Add	16.65	
22 66 53 00-0492 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	137.95	46.14
For Work In Restricted Working Space, Add	20.76	
22 66 53 00-0493 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	147.99	49.01
For Work In Restricted Working Space, Add	22.07	
22 66 53 00-0494 EA 4" x 4" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	151.82	51.88
For Work In Restricted Working Space, Add	23.38	
22 66 53 00-0495 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	189.41	54.87
For Work In Restricted Working Space, Add	24.69	
22 66 53 00-0496 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	200.87	59.36
For Work In Restricted Working Space, Add	26.75	
22 66 53 00-0497 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	304.07	74.69
For Work In Restricted Working Space, Add	33.67	
22 66 53 00-0498 EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	363.76	93.40
For Work In Restricted Working Space, Add	42.09	
22 66 53 00-0499 EA 8" x 8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes	398.35	99.64
For Work In Restricted Working Space, Add	44.89	
22 66 53 00-0500 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes (22 66 53 00-0400)		
22 66 53 00-0501 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes	122.28	41.53
For Work In Restricted Working Space, Add	18.71	
22 66 53 00-0502 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes	143.15	53.12
For Work In Restricted Working Space, Add	23.94	
22 66 53 00-0503 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes	221.75	71.45
For Work In Restricted Working Space, Add	32.18	
22 66 53 00-0504 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes	385.91	83.05
For Work In Restricted Working Space, Add	37.41	
22 66 53 00-0505 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes	616.37	107.99
For Work In Restricted Working Space, Add	48.63	
22 66 53 00-0506 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Wyes (22 66 53 00-0400)		
22 66 53 00-0507 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes	166.13	47.38
For Work In Restricted Working Space, Add	21.32	
22 66 53 00-0508 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes	210.48	62.36
For Work In Restricted Working Space, Add	28.06	
22 66 53 00-0509 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes	347.36	77.19
For Work In Restricted Working Space, Add	34.79	
22 66 53 00-0510 EA 6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes	505.00	95.52
For Work In Restricted Working Space, Add	43.02	
22 66 53 00-0511 Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends (22 66 53 00-0400)		
22 66 53 00-0512 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends	88.45	31.17
For Work In Restricted Working Space, Add	14.03	
22 66 53 00-0513 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends	115.48	39.90
For Work In Restricted Working Space, Add	17.96	
22 66 53 00-0514 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends	169.25	53.62
For Work In Restricted Working Space, Add	24.13	
22 66 53 00-0515 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends	219.67	62.36
For Work In Restricted Working Space, Add	28.06	
22 66 53 00-0516 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends	462.51	80.93
For Work In Restricted Working Space, Add	36.47	
22 66 53 00-0517 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends	790.98	108.99
For Work In Restricted Working Space, Add	49.10	
22 66 53 00-0518 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0400)		



		Plumbing	22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60	22
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0519 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	85.81 15.34	34.04
22 66 53 00-0520 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	105.58 16.65	36.91
22 66 53 00-0521 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	143.09 20.76	46.14
22 66 53 00-0522 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	153.59 22.07	49.01
22 66 53 00-0523 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	193.11 24.69	54.87
22 66 53 00-0524 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	205.42 26.75	59.36
22 66 53 00-0525 EA 6" x 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	365.92 32.36	71.82
22 66 53 00-0526 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	380.23 33.67	74.69
22 66 53 00-0527 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0400)		
22 66 53 00-0528 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	130.05 18.71	41.53
22 66 53 00-0529 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	189.78 23.94	53.12
22 66 53 00-0530 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	296.26 32.18	71.45
22 66 53 00-0531 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	482.87 37.41	83.05
22 66 53 00-0532 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	661.19 48.63	107.99
22 66 53 00-0533 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 66 53 00-0400)		
22 66 53 00-0534 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	166.14 21.32	47.38
22 66 53 00-0535 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	251.98 28.06	62.36
22 66 53 00-0536 EA 4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	300.68 30.68	68.09
22 66 53 00-0537 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	314.40 34.79	77.19
22 66 53 00-0538 EA 6" x 6" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	393.83 40.40	89.66
22 66 53 00-0539 EA 6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	439.16 43.02	95.52
22 66 53 00-0540 Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees With Plug (22 66 53 00-0400)		
22 66 53 00-0541 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	84.07 14.03	31.17
22 66 53 00-0542 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	101.06 17.96	39.90
22 66 53 00-0543 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	166.85 24.13	53.62
22 66 53 00-0544 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	211.21 28.06	62.36
22 66 53 00-0545 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	439.39 36.47	80.93
22 66 53 00-0546 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	21.23 4.68	10.35
22 66 53 00-0547 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	26.12 5.99	13.21
22 66 53 00-0548 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	37.59 8.04	17.83
22 66 53 00-0549 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	43.25 9.35	20.70
22 66 53 00-0550 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	68.72 12.16	26.93
22 66 53 00-0551 Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug (22 66 53 00-0400)		
22 66 53 00-0552 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	47.48 9.35	20.83
22 66 53 00-0553 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	59.13 11.97	26.56
22 66 53 00-0554 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	89.11 16.09	35.66
22 66 53 00-0555 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	123.40 18.71	41.53

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0556 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	186.64 24.32	54.00
22 66 53 00-0557 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	319.38 32.77	72.70
22 66 53 00-0558 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 66 53 00-0400)		
22 66 53 00-0559 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	50.87 9.35	20.83
22 66 53 00-0560 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	64.49 11.97	26.56
22 66 53 00-0561 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	85.08 16.09	35.66
22 66 53 00-0562 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	107.13 18.71	41.53
22 66 53 00-0563 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	152.01 24.32	54.00
22 66 53 00-0564 EA 8" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	300.59 32.77	72.70
22 66 53 00-0565 Chlorinated Polyvinyl Chloride (CPVC) Female Adapters (22 66 53 00-0400)		
22 66 53 00-0566 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters 22 66 53 00-0567 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters 22 66 53 00-0568 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters 22 66 53 00-0569 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters 22 66 53 00-0570 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	31.09 41.06 61.64 98.13 152.70	10.35 13.35 17.83 20.83 26.93
22 66 53 00-0571 Chlorinated Polyvinyl Chloride (CPVC) Male Adapters (22 66 53 00-0400)		
22 66 53 00-0572 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters 22 66 53 00-0573 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters 22 66 53 00-0574 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters 22 66 53 00-0575 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters 22 66 53 00-0576 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	34.15 47.80 57.31 94.75 126.36	10.35 13.35 17.83 20.83 26.93
22 66 53 00-0577 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 66 53 00-0400)		
22 66 53 00-0578 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap 22 66 53 00-0579 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap 22 66 53 00-0580 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap 22 66 53 00-0581 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap 22 66 53 00-0582 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap 22 66 53 00-0583 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap	30.91 38.28 58.49 95.75 122.37 189.58	10.35 13.35 17.83 20.83 26.93 36.41

END OF SECTION 22



Heating, Ventilating, and Air-Conditioning (HVAC)

23

Common Work Results for HVAC 23 05

General-Duty Valves For HVAC Piping 23 05 23

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 05 Common Work Results for HVAC (23)

23 05 23 General-Duty Valves For HVAC Piping (23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 22 05 23 00-0000 for additional valves.

23 05 23 00-0001	Gate Valves (23 05 23)		
23 05 23 00-0002	Class 125 Threaded, Bronze Gate Valves (23 05 23 00-0001)		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.			
23 05 23 00-0003	EA 1/4" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	72.94	13.54
	For 150 Lb. Rating, Add	3.35	
	For 200 Lb. Rating, Add	5.03	
	For 250 Lb. Rating, Add	8.38	
	For 300 Lb. Rating, Add	11.73	
	For Work In Restricted Working Space, Add	11.83	
23 05 23 00-0004	EA 3/8" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	75.01	13.54
	For 150 Lb. Rating, Add	3.35	
	For 200 Lb. Rating, Add	5.03	
	For 250 Lb. Rating, Add	8.38	
	For 300 Lb. Rating, Add	11.73	
	For Work In Restricted Working Space, Add	12.45	
23 05 23 00-0005	EA 1/2" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	77.19	13.54
	For 150 Lb. Rating, Add	3.35	
	For 200 Lb. Rating, Add	5.03	
	For 250 Lb. Rating, Add	8.38	
	For 300 Lb. Rating, Add	11.73	
	For Work In Restricted Working Space, Add	13.10	
23 05 23 00-0006	EA 3/4" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	98.86	14.89
	For 150 Lb. Rating, Add	4.00	
	For 200 Lb. Rating, Add	6.00	
	For 250 Lb. Rating, Add	10.00	
	For 300 Lb. Rating, Add	13.99	
	For Work In Restricted Working Space, Add	17.66	
23 05 23 00-0007	EA 1" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	131.66	16.93
	For 150 Lb. Rating, Add	6.04	
	For 200 Lb. Rating, Add	9.06	
	For 250 Lb. Rating, Add	15.10	
	For 300 Lb. Rating, Add	21.14	
	For Work In Restricted Working Space, Add	21.38	
23 05 23 00-0008	EA 1-1/4" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	171.70	18.01
	For 150 Lb. Rating, Add	8.14	
	For 200 Lb. Rating, Add	12.21	
	For 250 Lb. Rating, Add	20.36	
	For 300 Lb. Rating, Add	28.50	
	For Work In Restricted Working Space, Add	27.08	
23 05 23 00-0009	EA 1-1/2" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	206.77	20.85
	For 150 Lb. Rating, Add	10.26	
	For 200 Lb. Rating, Add	15.39	
	For 250 Lb. Rating, Add	25.65	
	For 300 Lb. Rating, Add	35.91	
	For Work In Restricted Working Space, Add	31.25	
23 05 23 00-0010	EA 2" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	263.30	24.65
	For 150 Lb. Rating, Add	14.02	
	For 200 Lb. Rating, Add	21.03	
	For 250 Lb. Rating, Add	35.05	
	For 300 Lb. Rating, Add	49.07	
	For Work In Restricted Working Space, Add	36.93	
23 05 23 00-0011	EA 2-1/2" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	566.13	33.29
	For Chain Operated Type, Add	179.94	
	For 150 Lb. Rating, Add	39.99	
	For 200 Lb. Rating, Add	59.98	
	For 250 Lb. Rating, Add	99.97	
	For 300 Lb. Rating, Add	139.95	
	For Work In Restricted Working Space, Add	49.88	
23 05 23 00-0012	EA 3" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	669.83	38.65
	For Chain Operated Type, Add	215.09	
	For 150 Lb. Rating, Add	47.80	
	For 200 Lb. Rating, Add	71.70	
	For 250 Lb. Rating, Add	119.50	
	For 300 Lb. Rating, Add	167.29	
	For Work In Restricted Working Space, Add	57.56	
23 05 23 00-0013	EA 4" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	1,356.90	43.65
	For Chain Operated Type, Add	512.41	
	For 150 Lb. Rating, Add	113.87	
	For 200 Lb. Rating, Add	170.80	
	For 250 Lb. Rating, Add	284.67	
	For 300 Lb. Rating, Add	398.54	
	For Work In Restricted Working Space, Add	65.47	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
23 05 23 00-0014	Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure.			
23 05 23 00-0015	EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	302.07		20.85
	For 150 Lb. Rating, Add	39.58		
	For 250 Lb. Rating, Add	69.27		
	For Chain Operated Type, Add	69.27		
	For Work In Restricted Working Space, Add	31.25		
23 05 23 00-0016	EA 2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	457.52		24.65
	For 150 Lb. Rating, Add	66.88		
	For 250 Lb. Rating, Add	117.05		
	For Chain Operated Type, Add	117.05		
	For Work In Restricted Working Space, Add	36.93		
23 05 23 00-0017	EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	669.24		33.29
	For 150 Lb. Rating, Add	100.59		
	For 250 Lb. Rating, Add	176.04		
	For Chain Operated Type, Add	176.04		
	For Work In Restricted Working Space, Add	49.88		
23 05 23 00-0018	EA 3" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	851.77		38.65
	For 150 Lb. Rating, Add	131.98		
	For 250 Lb. Rating, Add	230.97		
	For Chain Operated Type, Add	230.97		
	For Work In Restricted Working Space, Add	57.56		
23 05 23 00-0019	EA 4" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	1,994.66		43.65
	For 150 Lb. Rating, Add	355.29		
	For 250 Lb. Rating, Add	621.75		
	For Chain Operated Type, Add	621.75		
	For Work In Restricted Working Space, Add	65.47		
23 05 23 00-0020	Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure.			
23 05 23 00-0021	EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	786.12		142.18
	For 150 Lb. Rating, Add	176.31		
	For 250 Lb. Rating, Add	303.98		
	For 300 Lb. Rating, ASTM A182, Add	697.04		
	For Chain Operated Type, Add	303.98		
	For Work In Restricted Working Space, Add	53.45		
23 05 23 00-0022	EA 2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	861.50		180.50
	For 150 Lb. Rating, Add	184.39		
	For 250 Lb. Rating, Add	317.91		
	For 300 Lb. Rating, ASTM A182, Add	748.66		
	For Chain Operated Type, Add	317.91		
	For Work In Restricted Working Space, Add	67.70		
23 05 23 00-0023	EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	989.59		180.82
	For 150 Lb. Rating, Add	221.23		
	For 250 Lb. Rating, Add	381.43		
	For 300 Lb. Rating, ASTM A182, Add	876.23		
	For Chain Operated Type, Add	381.43		
	For Work In Restricted Working Space, Add	68.02		
23 05 23 00-0024	EA 3" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,218.85		211.99
	For 150 Lb. Rating, Add	276.52		
	For 250 Lb. Rating, Add	476.77		
	For 300 Lb. Rating, ASTM A182, Add	1,086.19		
	For Chain Operated Type, Add	476.77		
	For Work In Restricted Working Space, Add	79.60		
23 05 23 00-0025	EA 4" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,716.80		355.40
	For 150 Lb. Rating, Add	368.72		
	For 250 Lb. Rating, Add	635.72		
	For 300 Lb. Rating, ASTM A182, Add	1,494.12		
	For Chain Operated Type, Add	635.72		
	For Work In Restricted Working Space, Add	133.61		
23 05 23 00-0026	EA 5" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,124.72		378.18
	For 150 Lb. Rating, Add	479.29		
	For 250 Lb. Rating, Add	826.36		
	For 300 Lb. Rating, ASTM A182, Add	1,888.72		
	For Chain Operated Type, Add	826.36		
	For Work In Restricted Working Space, Add	141.60		
23 05 23 00-0027	EA 6" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,561.02		420.20
	For 150 Lb. Rating, Add	589.83		
	For 250 Lb. Rating, Add	1,016.95		
	For 300 Lb. Rating, ASTM A182, Add	2,297.46		
	For Chain Operated Type, Add	1,016.95		
	For Work In Restricted Working Space, Add	158.14		
23 05 23 00-0028	EA 8" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	4,036.14		536.93
	For 150 Lb. Rating, Add	977.06		
	For 250 Lb. Rating, Add	1,684.58		
	For 300 Lb. Rating, ASTM A182, Add	3,702.65		
	For Chain Operated Type, Add	1,684.58		
	For Work In Restricted Working Space, Add	200.09		

**Heating, Ventilating, and Air-Conditioning (HVAC)****23****Common Work Results for HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0029 EA 10" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve 5,266.58 653.65 For 150 Lb. Rating, Add 1,290.36 For 250 Lb. Rating, Add 2,224.77 For 300 Lb. Rating, ASTM A182, Add 4,858.06 For Chain Operated Type, Add 2,224.77 For Work In Restricted Working Space, Add 245.12		
23 05 23 00-0030 EA 12" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve 7,347.17 793.71 For 150 Lb. Rating, Add 1,843.47 For 250 Lb. Rating, Add 3,178.40 For 300 Lb. Rating, ASTM A182, Add 6,851.98 For Chain Operated Type, Add 3,178.40 For Work In Restricted Working Space, Add 297.11		
23 05 23 00-0031 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0032 EA 1-1/2" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve 589.29 20.85 For 175 Lb. Rating, Add 242.57 For 250 Lb. Rating, Add 363.85 For Work In Restricted Working Space, Add 31.25		
23 05 23 00-0033 EA 2" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve 750.25 24.65 For 175 Lb. Rating, Add 313.58 For 250 Lb. Rating, Add 470.36 For Work In Restricted Working Space, Add 36.93		
23 05 23 00-0034 EA 2-1/2" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve 873.46 33.29 For 175 Lb. Rating, Add 353.60 For 250 Lb. Rating, Add 530.39 For Work In Restricted Working Space, Add 49.88		
23 05 23 00-0035 EA 3" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve 972.16 38.65 For 175 Lb. Rating, Add 390.16 For 250 Lb. Rating, Add 585.23 For Work In Restricted Working Space, Add 57.56		
23 05 23 00-0036 EA 4" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve 1,295.72 43.65 For 175 Lb. Rating, Add 538.75 For 250 Lb. Rating, Add 808.13 For Work In Restricted Working Space, Add 65.47		
23 05 23 00-0037 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0038 EA 1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve 1,054.57 142.18 For 150 Lb. Rating, Add 131.46 For 175 Lb. Rating, Add 271.68 For 250 Lb. Rating, Add 569.66 For Chain Operated Type, Add 438.20 For Work In Restricted Working Space, Add 53.45		
23 05 23 00-0039 EA 2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve 1,128.12 180.50 For 150 Lb. Rating, Add 135.37 For 175 Lb. Rating, Add 279.76 For 250 Lb. Rating, Add 586.59 For Chain Operated Type, Add 451.22 For Work In Restricted Working Space, Add 67.70		
23 05 23 00-0040 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve 1,158.62 180.82 For 150 Lb. Rating, Add 139.78 For 175 Lb. Rating, Add 288.89 For 250 Lb. Rating, Add 605.73 For Chain Operated Type, Add 465.95 For Work In Restricted Working Space, Add 68.02		
23 05 23 00-0041 EA 3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve 1,290.65 211.99 For 150 Lb. Rating, Add 153.80 For 175 Lb. Rating, Add 317.85 For 250 Lb. Rating, Add 666.46 For Chain Operated Type, Add 512.67 For Work In Restricted Working Space, Add 79.60		
23 05 23 00-0042 EA 4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve 1,688.82 355.40 For 150 Lb. Rating, Add 186.52 For 175 Lb. Rating, Add 385.47 For 250 Lb. Rating, Add 808.25 For Chain Operated Type, Add 621.73 For Work In Restricted Working Space, Add 133.61		
23 05 23 00-0043 EA 5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve 2,206.90 378.18 For 150 Lb. Rating, Add 260.24 For 175 Lb. Rating, Add 537.82 For 250 Lb. Rating, Add 1,127.69 For Chain Operated Type, Add 867.45 For Work In Restricted Working Space, Add 141.60		
23 05 23 00-0044 EA 6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve 2,508.45 420.20 For 150 Lb. Rating, Add 297.20 For 175 Lb. Rating, Add 614.21 For 250 Lb. Rating, Add 1,287.86 For Chain Operated Type, Add 990.66 For Work In Restricted Working Space, Add 158.14		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0045 EA 8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For 150 Lb. Rating, Add</i> <i>For 175 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,017.93 502.64 1,038.79 2,178.12 1,675.48 200.09	536.93
23 05 23 00-0046 EA 10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For 150 Lb. Rating, Add</i> <i>For 175 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,974.16 773.57 1,598.70 3,352.12 2,578.56 245.12	653.65
23 05 23 00-0047 EA 12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For 150 Lb. Rating, Add</i> <i>For 175 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,526.58 980.43 2,026.22 4,248.53 3,268.10 297.11	793.71

23 05 23 00-0048 Ball Valves (23 05 23)**23 05 23 00-0049 Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0048)**

Note: 125 Lb. WSP.

23 05 23 00-0050 EA 1/2" Diameter Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.71 2.63 6.76 13.10	13.54
23 05 23 00-0051 EA 3/4" Diameter Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.99 2.63 10.40 17.66	14.89
23 05 23 00-0052 EA 1" Diameter Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.46 2.63 14.04 21.38	16.93
23 05 23 00-0053 EA 1-1/4" Diameter Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.65 2.63 23.57 27.08	18.01
23 05 23 00-0054 EA 1-1/2" Diameter Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.06 2.63 30.11 31.25	20.85
23 05 23 00-0055 EA 2" Diameter Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.90 2.63 37.71 36.93	24.65
23 05 23 00-0056 EA 2-1/2" Diameter Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	561.74 2.63 177.96 49.88	33.29
23 05 23 00-0057 EA 3" Diameter Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	648.14 2.63 205.33 57.56	38.65
23 05 23 00-0058 EA 4" Diameter Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	840.31 2.63 279.94 65.47	43.65

23 05 23 00-0059 Screwed, 150 Lb., Full Port, Carbon Steel Ball Valves (23 05 23 00-0048)

23 05 23 00-0060 EA 1/4" Diameter Threaded, 150 Lb., Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	68.19 11.83	13.54
23 05 23 00-0061 EA 1/2" Diameter Threaded, 150 Lb., Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	74.90 13.10	13.54
23 05 23 00-0062 EA 3/4" Diameter Threaded, 150 Lb., Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	104.03 17.66	14.89
23 05 23 00-0063 EA 1" Diameter Threaded, 150 Lb., Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	131.98 21.38	16.93
23 05 23 00-0064 EA 1-1/4" Diameter Threaded, 150 Lb., Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	194.03 27.08	18.01
23 05 23 00-0065 EA 1-1/2" Diameter Threaded, 150 Lb., Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	235.61 31.25	20.85
23 05 23 00-0066 EA 2" Diameter Threaded, 150 Lb., Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	304.10 36.93	24.65

23 05 23 00-0067 Flanged, 150 Lb., Full Port, Carbon Steel Ball Valves (23 05 23 00-0048)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0068 EA 1-1/2" Diameter Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve.....	634.63	142.18
For 150 Lb. Rating, Add	132.37	
For 250 Lb. Rating, Add	228.23	
For 300 Lb. Rating, ASTM A182, Add	545.55	
For Chain Operated Type, Add	228.23	
For Work In Restricted Working Space, Add	53.45	
For Work In Restricted Working Space, Add	53.45	
23 05 23 00-0069 EA 2" Diameter Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve	791.96	180.50
For 150 Lb. Rating, Add	164.22	
For 250 Lb. Rating, Add	283.14	
For 300 Lb. Rating, ASTM A182, Add	679.12	
For Chain Operated Type, Add	283.14	
For Work In Restricted Working Space, Add	67.70	
For Work In Restricted Working Space, Add	67.70	
23 05 23 00-0070 EA 2-1/2" Diameter Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve	1,261.18	180.82
For 150 Lb. Rating, Add	299.99	
For 250 Lb. Rating, Add	517.23	
For 300 Lb. Rating, ASTM A182, Add	1,147.82	
For Chain Operated Type, Add	517.23	
For Work In Restricted Working Space, Add	68.02	
For Work In Restricted Working Space, Add	68.02	
23 05 23 00-0071 EA 3" Diameter Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve	1,383.77	211.99
For 150 Lb. Rating, Add	324.35	
For 250 Lb. Rating, Add	559.23	
For 300 Lb. Rating, ASTM A182, Add	1,251.11	
For Chain Operated Type, Add	559.23	
For Work In Restricted Working Space, Add	79.60	
For Work In Restricted Working Space, Add	79.60	
23 05 23 00-0072 EA 4" Diameter Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve	2,016.33	355.40
For Work In Restricted Working Space, Add	133.61	
23 05 23 00-0073 EA 6" Diameter Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve	4,786.57	420.20
For Work In Restricted Working Space, Add	158.14	
23 05 23 00-0074 EA 8" Diameter Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve	8,224.46	536.93
For Work In Restricted Working Space, Add	200.09	
23 05 23 00-0075 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves (23 05 23 00-0048)		
23 05 23 00-0076 EA 1/2" Diameter Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	50.16	13.54
For True Union Socket Or Thread Type, Add	4.89	
For Work In Restricted Working Space, Add	13.10	
23 05 23 00-0077 EA 3/4" Diameter Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	66.34	14.89
For True Union Socket Or Thread Type, Add	6.08	
For Work In Restricted Working Space, Add	17.66	
23 05 23 00-0078 EA 1" Diameter Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	81.66	16.93
For True Union Socket Or Thread Type, Add	7.90	
For Work In Restricted Working Space, Add	21.38	
23 05 23 00-0079 EA 1-1/4" Diameter Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	103.92	18.01
For True Union Socket Or Thread Type, Add	10.20	
For Work In Restricted Working Space, Add	27.08	
23 05 23 00-0080 EA 1-1/2" Diameter Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	127.91	20.85
For True Union Socket Or Thread Type, Add	14.97	
For Work In Restricted Working Space, Add	31.25	
23 05 23 00-0081 EA 2" Diameter Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	153.37	24.65
For True Union Socket Or Thread Type, Add	18.57	
For Work In Restricted Working Space, Add	36.93	
23 05 23 00-0082 EA 2-1/2" Diameter Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	231.41	33.29
For True Union Socket Or Thread Type, Add	34.79	
For Work In Restricted Working Space, Add	49.88	
23 05 23 00-0083 EA 3" Diameter Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	302.61	38.65
For True Union Socket Or Thread Type, Add	54.38	
For Work In Restricted Working Space, Add	57.56	
23 05 23 00-0084 EA 4" Diameter Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	429.99	43.65
For True Union Socket Or Thread Type, Add	96.16	
For Work In Restricted Working Space, Add	65.47	
23 05 23 00-0085 Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0048)		
23 05 23 00-0086 EA 1/4" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	104.34	20.31
For Full Port, Add	20.34	
For Work In Restricted Working Space, Add	17.75	
23 05 23 00-0087 EA 3/8" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	107.45	20.31
For Full Port, Add	20.34	
For Work In Restricted Working Space, Add	18.68	
23 05 23 00-0088 EA 1/2" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	110.72	20.31
For Full Port, Add	20.34	
For Work In Restricted Working Space, Add	19.66	
23 05 23 00-0089 EA 3/4" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	136.22	22.35
For Full Port, Add	21.56	
For Work In Restricted Working Space, Add	26.49	
23 05 23 00-0090 EA 1" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	177.89	25.39
For Full Port, Add	31.94	
For Work In Restricted Working Space, Add	32.07	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0091 EA 1-1/4" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	232.56 43.72 40.62	27.02
23 05 23 00-0092 EA 1-1/2" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.41 58.13 46.87	31.27
23 05 23 00-0093 EA 2" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	394.87 94.60 55.39	36.96
23 05 23 00-0094 EA 2-1/2" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	759.57 229.58 74.82	49.94
23 05 23 00-0095 EA 3" Diameter Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,097.90 364.55 86.33	57.98
23 05 23 00-0096 Wye Strainer, Union With Two Pressure Ports, Ball Valves (23 05 23 00-0048)		
23 05 23 00-0097 EA 1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	185.87	13.54
23 05 23 00-0098 EA 3/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	238.69	17.60
23 05 23 00-0099 EA 1" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	307.21	21.67
23 05 23 00-0100 EA 1-1/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	418.63	29.79
23 05 23 00-0101 EA 1-1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	522.82	34.66
23 05 23 00-0102 EA 2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	688.72	40.63
23 05 23 00-0103 Plastic Ball Valves (23 05 23 00-0048) Note: Threaded or socket.		
23 05 23 00-0104 Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valves (23 05 23 00-0103)		
23 05 23 00-0105 EA 3/8" Diameter, Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	78.82	13.54
23 05 23 00-0106 EA 1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	82.31	13.54
23 05 23 00-0107 EA 3/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	104.67	14.89
23 05 23 00-0108 EA 1" Diameter, Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	135.61	16.93
23 05 23 00-0109 EA 1-1/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	162.04	18.01
23 05 23 00-0110 EA 1-1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	195.52	20.85
23 05 23 00-0111 EA 2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	237.65	24.65
23 05 23 00-0112 Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valves (23 05 23 00-0103)		
23 05 23 00-0113 EA 3/8" Diameter, Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	115.32	13.54
23 05 23 00-0114 EA 1/2" Diameter, Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	117.15	13.54
23 05 23 00-0115 EA 3/4" Diameter, Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	147.80	14.89
23 05 23 00-0116 EA 1" Diameter, Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	182.41	16.93
23 05 23 00-0117 EA 1-1/4" Diameter, Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	272.74	18.01
23 05 23 00-0118 EA 1-1/2" Diameter, Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	303.22	20.85
23 05 23 00-0119 EA 2" Diameter, Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	363.63	24.65
23 05 23 00-0120 Viton Liner And Seals, Polypropylene (PP) Ball Valves (23 05 23 00-0103)		
23 05 23 00-0121 EA 3/8" Diameter, Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	127.76	13.54
23 05 23 00-0122 EA 1/2" Diameter, Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	137.88	13.54
23 05 23 00-0123 EA 3/4" Diameter, Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	159.41	14.89
23 05 23 00-0124 EA 1" Diameter, Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	195.68	16.93
23 05 23 00-0125 EA 1-1/4" Diameter, Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	246.20	18.01
23 05 23 00-0126 EA 1-1/2" Diameter, Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	294.92	20.85
23 05 23 00-0127 EA 2" Diameter, Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	380.21	24.65
23 05 23 00-0128 Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valves (23 05 23 00-0103)		
23 05 23 00-0129 EA 3/8" Diameter, Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	250.51	13.54
23 05 23 00-0130 EA 1/2" Diameter, Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	267.27	13.54
23 05 23 00-0131 EA 3/4" Diameter, Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	318.65	14.89
23 05 23 00-0132 EA 1" Diameter, Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	373.17	16.93
23 05 23 00-0133 EA 1-1/4" Diameter, Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	455.21	18.01
23 05 23 00-0134 EA 1-1/2" Diameter, Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	502.27	20.85
23 05 23 00-0135 EA 2" Diameter, Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	579.27	24.65

**Heating, Ventilating, and Air-Conditioning (HVAC)****23****Common Work Results for HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR		CSI UOM DESCRIPTION		TOTAL DIRECT	DEMOLITION
				UNIT COST	UNIT COST
23 05 23 00-0136		Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valves (23 05 23 00-0103)			
23 05 23 00-0137	EA	1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	56.02	13.54	
23 05 23 00-0138	EA	3/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	75.06	14.89	
23 05 23 00-0139	EA	1" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	91.18	16.93	
23 05 23 00-0140	EA	1-1/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	125.44	18.01	
23 05 23 00-0141	EA	1-1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	139.33	20.85	
23 05 23 00-0142	EA	2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	169.46	24.65	
23 05 23 00-0143		Plastic, True Union, Ball Valves (23 05 23 00-0048)			
23 05 23 00-0144		Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valves (23 05 23 00-0143)			
		Note: Socket or NPT connectors.			
23 05 23 00-0145	EA	3/8" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	124.44	13.54	
23 05 23 00-0146	EA	1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	129.59	13.54	
23 05 23 00-0147	EA	3/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	157.75	14.89	
23 05 23 00-0148	EA	1" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	194.02	16.93	
23 05 23 00-0149	EA	1-1/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	234.59	18.01	
23 05 23 00-0150	EA	1-1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	270.04	20.85	
23 05 23 00-0151	EA	2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	330.45	24.65	
23 05 23 00-0152		Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valves (23 05 23 00-0143)			
		Note: Socket or NPT connectors.			
23 05 23 00-0153	EA	3/8" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	126.10	13.54	
23 05 23 00-0154	EA	1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	146.18	13.54	
23 05 23 00-0155	EA	3/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	159.41	14.89	
23 05 23 00-0156	EA	1" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	194.02	16.93	
23 05 23 00-0157	EA	1-1/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	231.27	18.01	
23 05 23 00-0158	EA	1-1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	268.38	20.85	
23 05 23 00-0159	EA	2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	330.45	24.65	
23 05 23 00-0160		Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0143)			
		Note: Socket or NPT connectors.			
23 05 23 00-0161	EA	1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	71.53	13.54	
23 05 23 00-0162	EA	3/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	92.23	14.89	
23 05 23 00-0163	EA	1" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	111.08	16.93	
23 05 23 00-0164	EA	1-1/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	145.84	18.01	
23 05 23 00-0165	EA	1-1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	170.51	20.85	
23 05 23 00-0166	EA	2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	230.92	24.65	
23 05 23 00-0167	EA	2-1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	322.20	33.29	
23 05 23 00-0168	EA	3" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	404.18	38.65	
23 05 23 00-0169	EA	4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	566.57	43.65	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 23 00-0170		Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valves (23 05 23 00-0143)	
Note: Socket or NPT connectors.			
23 05 23 00-0171	EA	1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	83.14 13.54
23 05 23 00-0172	EA	3/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	108.81 14.89
23 05 23 00-0173	EA	1" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	134.30 16.93
23 05 23 00-0174	EA	1-1/4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	186.48 18.01
23 05 23 00-0175	EA	1-1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	205.35 20.85
23 05 23 00-0176	EA	2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	262.44 24.65
23 05 23 00-0177	EA	2-1/2" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	448.27 33.29
23 05 23 00-0178	EA	3" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	523.61 38.65
23 05 23 00-0179	EA	4" Diameter, Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	798.80 43.65
23 05 23 00-0180		Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0143)	
23 05 23 00-0181		Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0180)	
23 05 23 00-0182	EA	1/4" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	68.87 13.54
23 05 23 00-0183	EA	3/8" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	70.94 13.54
23 05 23 00-0184	EA	1/2" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	72.77 13.54
23 05 23 00-0185	EA	3/4" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	93.22 14.89
23 05 23 00-0186	EA	1" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	114.24 16.93
23 05 23 00-0187	EA	1-1/4" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	138.57 18.01
23 05 23 00-0188	EA	1-1/2" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	166.51 20.85
23 05 23 00-0189	EA	2" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	212.68 24.65
23 05 23 00-0190	EA	2-1/2" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	387.72 33.29
23 05 23 00-0191	EA	3" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	432.38 38.65
23 05 23 00-0192	EA	4" Diameter Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	592.28 43.65
23 05 23 00-0193		Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0180)	
23 05 23 00-0194	EA	1/4" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	68.87 13.54
23 05 23 00-0195	EA	3/8" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	70.94 13.54
23 05 23 00-0196	EA	1/2" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	72.77 13.54
23 05 23 00-0197	EA	3/4" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	93.22 14.89
23 05 23 00-0198	EA	1" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	114.24 16.93
23 05 23 00-0199	EA	1-1/4" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	138.57 18.01
23 05 23 00-0200	EA	1-1/2" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	166.51 20.85
23 05 23 00-0201	EA	2" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	212.68 24.65
23 05 23 00-0202	EA	2-1/2" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	387.72 33.29
23 05 23 00-0203	EA	3" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	432.38 38.65
23 05 23 00-0204	EA	4" Diameter Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	592.28 43.65
23 05 23 00-0205		Three Piece Ball Valves (23 05 23 00-0048)	
23 05 23 00-0206		Threaded Or Sweated, Bronze Body, Three Piece Ball Valves (23 05 23 00-0205)	
23 05 23 00-0207	EA	1/4" Diameter Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	109.24 13.54
		For Work In Restricted Working Space, Add	11.83
23 05 23 00-0208	EA	3/8" Diameter Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	111.31 13.54
		For Work In Restricted Working Space, Add	12.45
23 05 23 00-0209	EA	1/2" Diameter Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	124.60 13.54
		For Work In Restricted Working Space, Add	13.10
23 05 23 00-0210	EA	3/4" Diameter Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	158.18 14.89
		For Work In Restricted Working Space, Add	17.66
23 05 23 00-0211	EA	1" Diameter Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	201.69 16.93
		For Work In Restricted Working Space, Add	21.38
23 05 23 00-0212	EA	1-1/4" Diameter Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	277.73 18.01
		For Work In Restricted Working Space, Add	27.08
23 05 23 00-0213	EA	1-1/2" Diameter Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	346.85 20.85
		For Work In Restricted Working Space, Add	31.25
23 05 23 00-0214	EA	2" Diameter Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	562.83 24.65
		For Work In Restricted Working Space, Add	36.93
23 05 23 00-0215	EA	2-1/2" Diameter Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	1,202.90 35.34
		For Work In Restricted Working Space, Add	54.15
23 05 23 00-0216		Threaded, Carbon Steel Body, Three Piece Ball Valves (23 05 23 00-0205)	
23 05 23 00-0217	EA	1/4" Diameter Threaded, Carbon Steel Body, Three Piece Ball Valve	126.08 13.54
		For Work In Restricted Working Space, Add	11.83
23 05 23 00-0218	EA	3/8" Diameter Threaded, Carbon Steel Body, Three Piece Ball Valve	137.92 13.54
		For Work In Restricted Working Space, Add	12.45

**Heating, Ventilating, and Air-Conditioning (HVAC)****23****Common Work Results for HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0219 EA 1/2" Diameter Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	146.32 13.10	13.54
23 05 23 00-0220 EA 3/4" Diameter Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	232.43 17.66	14.89
23 05 23 00-0221 EA 1" Diameter Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	296.57 21.38	16.93
23 05 23 00-0222 EA 1-1/4" Diameter Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	447.32 27.08	18.01
23 05 23 00-0223 EA 1-1/2" Diameter Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	568.14 31.25	20.85
23 05 23 00-0224 EA 2" Diameter Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	737.65 36.93	24.65
23 05 23 00-0225 Threaded, Stainless Steel Body, Three Piece Ball Valves (23 05 23 00-0205)		
23 05 23 00-0226 EA 1/4" Diameter Threaded, Stainless Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	319.62 11.83	13.54
23 05 23 00-0227 EA 3/8" Diameter Threaded, Stainless Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	342.56 12.45	13.54
23 05 23 00-0228 EA 1/2" Diameter Threaded, Stainless Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	361.07 13.10	13.54
23 05 23 00-0229 EA 3/4" Diameter Threaded, Stainless Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	523.46 17.66	14.89
23 05 23 00-0230 EA 1" Diameter Threaded, Stainless Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	638.12 21.38	16.93
23 05 23 00-0231 EA 1-1/4" Diameter Threaded, Stainless Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	745.85 27.08	18.01
23 05 23 00-0232 EA 1-1/2" Diameter Threaded, Stainless Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	997.35 31.25	20.85
23 05 23 00-0233 EA 2" Diameter Threaded, Stainless Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	1,296.98 36.93	24.65
23 05 23 00-0234 EA 3" Diameter Threaded, Stainless Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	3,400.38 62.50	41.98
23 05 23 00-0235 Globe Valves (23 05 23)		
23 05 23 00-0236 Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valves (23 05 23 00-0235)		
23 05 23 00-0237 EA 1/8" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve <i>For 150 Lb. Rating, Add</i> <i>For 200 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.82 11.82 14.49 17.16 20.98 13.10	13.54
23 05 23 00-0238 EA 1/4" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve <i>For 150 Lb. Rating, Add</i> <i>For 200 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	77.57 11.82 14.49 17.16 20.98 11.83	13.54
23 05 23 00-0239 EA 3/8" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve <i>For 150 Lb. Rating, Add</i> <i>For 200 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	98.43 17.65 21.63 25.62 31.31 12.45	13.54
23 05 23 00-0240 EA 1/2" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve <i>For 150 Lb. Rating, Add</i> <i>For 200 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For 300 Lb. Rating, Add</i> <i>For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.61 17.65 21.63 25.62 31.31 80.10 13.10	13.54
23 05 23 00-0241 EA 3/4" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve <i>For 150 Lb. Rating, Add</i> <i>For 200 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For 300 Lb. Rating, Add</i> <i>For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.60 19.13 23.45 27.77 33.95 91.44 17.66	14.21
23 05 23 00-0242 EA 1" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve <i>For 150 Lb. Rating, Add</i> <i>For 200 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For 300 Lb. Rating, Add</i> <i>For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	154.68 25.86 31.70 37.53 45.88 120.26 21.38	14.21
23 05 23 00-0243 EA 1-1/4" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve <i>For 150 Lb. Rating, Add</i> <i>For 200 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For 300 Lb. Rating, Add</i> <i>For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.33 44.66 54.74 64.83 79.23 194.57 27.08	18.01

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0244 EA 1-1/2" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	310.05 63.83 78.24 92.65 113.24 268.14 31.25	20.85
23 05 23 00-0245 EA 2" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	365.14 75.03 91.98 108.92 133.12 315.48 36.93	24.65
23 05 23 00-0246 EA 2-1/2" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Work In Restricted Working Space, Add	410.30 75.65 92.73 109.81 134.22 49.88	33.29
23 05 23 00-0247 EA 3" Diameter, Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Work In Restricted Working Space, Add	738.57 169.48 207.75 246.02 300.70 57.56	38.65
23 05 23 00-0248 Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0235)		
23 05 23 00-0249 EA 2" Diameter Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	548.35 131.83 161.60 191.36 233.89 355.08 36.93	24.65
23 05 23 00-0250 EA 2-1/2" Diameter Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	681.72 159.79 195.87 231.95 283.50 430.40 49.88	33.29
23 05 23 00-0251 EA 3" Diameter Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	810.39 191.75 235.05 278.34 340.20 516.48 57.56	38.65
23 05 23 00-0252 EA 4" Diameter Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	1,042.88 255.66 313.39 371.12 453.60 688.64 65.45	43.65
23 05 23 00-0253 Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0235)		
23 05 23 00-0254 EA 2" Diameter Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	746.52 161.46 234.38 260.42 67.70	180.50
23 05 23 00-0255 EA 2-1/2" Diameter Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	861.66 196.83 285.72 317.47 68.02	180.82
23 05 23 00-0256 EA 3" Diameter Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	1,027.24 236.20 342.86 380.96 79.60	211.99
23 05 23 00-0257 EA 4" Diameter Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	1,461.25 314.93 457.15 507.95 133.61	355.40
23 05 23 00-0258 EA 5" Diameter Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	1,884.72 437.94 635.72 706.36 141.60	378.18



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0259	EA		6" Diameter Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve	2,312.87	420.20
			For 150 Lb. Rating, Add	553.58	
			For 250 Lb. Rating, Add	803.58	
			For Chain Operated Type, Add	892.87	
			For Work In Restricted Working Space, Add	158.14	
23 05 23 00-0260	EA		8" Diameter Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve	3,413.05	536.93
			For 150 Lb. Rating, Add	851.28	
			For 250 Lb. Rating, Add	1,235.73	
			For Chain Operated Type, Add	1,373.04	
			For Work In Restricted Working Space, Add	200.09	
23 05 23 00-0261	EA		10" Diameter Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve	4,999.65	653.65
			For 150 Lb. Rating, Add	1,296.61	
			For 250 Lb. Rating, Add	1,882.17	
			For Chain Operated Type, Add	2,091.30	
			For Work In Restricted Working Space, Add	245.12	
23 05 23 00-0262	EA		12" Diameter Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve	8,905.00	793.71
			For 150 Lb. Rating, Add	2,453.53	
			For 250 Lb. Rating, Add	3,561.58	
			For Chain Operated Type, Add	3,957.31	
			For Work In Restricted Working Space, Add	297.11	
23 05 23 00-0263 Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valves (23 05 23 00-0235)					
23 05 23 00-0264	EA		1/8" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	72.57	13.54
			For 150 Lb. Rating, Add	8.96	
			For 200 Lb. Rating, Add	10.98	
			For 300 Lb. Rating, Add	15.89	
			For Work In Restricted Working Space, Add	13.10	
23 05 23 00-0265	EA		1/4" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	68.32	13.54
			For 150 Lb. Rating, Add	8.96	
			For 200 Lb. Rating, Add	10.98	
			For 300 Lb. Rating, Add	15.89	
			For Work In Restricted Working Space, Add	11.83	
23 05 23 00-0266	EA		3/8" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	70.39	13.54
			For 150 Lb. Rating, Add	8.96	
			For 200 Lb. Rating, Add	10.98	
			For 300 Lb. Rating, Add	15.89	
			For Work In Restricted Working Space, Add	12.45	
23 05 23 00-0267	EA		1/2" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	74.50	13.54
			For 150 Lb. Rating, Add	9.55	
			For 200 Lb. Rating, Add	11.71	
			For 300 Lb. Rating, Add	16.95	
			For Work In Restricted Working Space, Add	13.10	
23 05 23 00-0268	EA		3/4" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	101.62	14.21
			For 150 Lb. Rating, Add	13.25	
			For 200 Lb. Rating, Add	16.24	
			For 300 Lb. Rating, Add	23.51	
			For Work In Restricted Working Space, Add	17.66	
23 05 23 00-0269	EA		1" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	127.35	14.21
			For 150 Lb. Rating, Add	17.38	
			For 200 Lb. Rating, Add	21.31	
			For 300 Lb. Rating, Add	30.84	
			For Work In Restricted Working Space, Add	21.38	
23 05 23 00-0270	EA		1-1/4" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	173.58	18.01
			For 150 Lb. Rating, Add	25.83	
			For 200 Lb. Rating, Add	31.66	
			For 300 Lb. Rating, Add	45.82	
			For Work In Restricted Working Space, Add	27.08	
23 05 23 00-0271	EA		1-1/2" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	201.29	20.85
			For 150 Lb. Rating, Add	30.11	
			For 200 Lb. Rating, Add	36.91	
			For 300 Lb. Rating, Add	53.42	
			For Work In Restricted Working Space, Add	31.25	
23 05 23 00-0272	EA		2" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	269.39	24.65
			For 150 Lb. Rating, Add	45.35	
			For 200 Lb. Rating, Add	55.59	
			For 300 Lb. Rating, Add	80.46	
			For Work In Restricted Working Space, Add	36.93	
23 05 23 00-0273	EA		2-1/2" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	444.43	36.16
			For 150 Lb. Rating, Add	81.81	
			For 200 Lb. Rating, Add	100.28	
			For 300 Lb. Rating, Add	145.14	
			For Work In Restricted Working Space, Add	54.16	
23 05 23 00-0274	EA		3" Diameter Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	655.22	41.98
			For 150 Lb. Rating, Add	138.54	
			For 200 Lb. Rating, Add	169.82	
			For 300 Lb. Rating, Add	245.80	
			For Work In Restricted Working Space, Add	62.50	
23 05 23 00-0275 Flanged, 125 Lb., Iron Body, Angle Globe Valves (23 05 23 00-0235)					
23 05 23 00-0276	EA		2" Diameter Flanged, 125 Lb., Iron Body, Angle Globe Valve	1,565.71	180.50
			For 250 Lb. Rating, Add	804.02	
			For Chain Operated Type, Add	522.61	
			For Work In Restricted Working Space, Add	67.70	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0277 EA 2-1/2" Diameter Flanged, 125 Lb., Iron Body, Angle Globe Valve For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	1,811.55 950.89 618.08 68.02	180.82
23 05 23 00-0278 EA 3" Diameter Flanged, 125 Lb., Iron Body, Angle Globe Valve For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	2,132.91 1,120.55 728.36 79.60	211.99
23 05 23 00-0279 EA 4" Diameter Flanged, 125 Lb., Iron Body, Angle Globe Valve For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	3,112.81 1,600.47 1,040.31 133.61	355.40
23 05 23 00-0280 EA 5" Diameter Flanged, 125 Lb., Iron Body, Angle Globe Valve For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	5,252.58 2,868.35 1,864.43 141.60	378.18
23 05 23 00-0281 EA 6" Diameter Flanged, 125 Lb., Iron Body, Angle Globe Valve For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	5,307.71 2,868.35 1,864.43 158.14	420.20
23 05 23 00-0282 EA 8" Diameter Flanged, 125 Lb., Iron Body, Angle Globe Valve For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	10,023.52 5,613.92 3,649.05 200.09	536.93
23 05 23 00-0283 Plug Valves (23 05 23)		
23 05 23 00-0284 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated (23 05 23 00-0283) Note: Includes wrench.		
23 05 23 00-0285 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	314.01	13.54
23 05 23 00-0286 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	329.21	14.89
23 05 23 00-0287 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	416.07	16.93
23 05 23 00-0288 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench	498.52	18.01
23 05 23 00-0289 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench	548.27	20.85
23 05 23 00-0290 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	647.20	24.65
23 05 23 00-0291 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench	968.97	33.29
23 05 23 00-0292 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	1,184.88	38.65
23 05 23 00-0293 Plug Valves, Lubricated, Semisteel Flanged (23 05 23 00-0283) Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0294 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	781.87	180.50
23 05 23 00-0295 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	959.37	180.82
23 05 23 00-0296 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	1,185.91	211.99
23 05 23 00-0297 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	1,692.00	355.40
23 05 23 00-0298 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	3,852.77	420.20
23 05 23 00-0299 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	6,658.50	536.93
23 05 23 00-0300 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	10,801.64	653.65
23 05 23 00-0301 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	16,145.63	793.71
23 05 23 00-0302 Plug Valves, Forged Steel, Screwed (23 05 23 00-0283)		
23 05 23 00-0303 EA 1/2" Diameter Threaded, 1,500 Lb., Forged Steel, Plug Valve	1,199.96	13.54
23 05 23 00-0304 EA 3/4" Diameter Threaded, 1,500 Lb., Forged Steel, Plug Valve	1,418.33	14.89
23 05 23 00-0305 EA 1" Diameter Threaded, 1,500 Lb., Forged Steel, Plug Valve	1,603.78	16.93
23 05 23 00-0306 EA 1-1/4" Diameter Threaded, 1,500 Lb., Forged Steel, Plug Valve	1,924.60	18.01
23 05 23 00-0307 EA 1-1/2" Diameter Threaded, 1,500 Lb., Forged Steel, Plug Valve	2,241.15	20.85
23 05 23 00-0308 EA 2" Diameter Threaded, 1,500 Lb., Forged Steel, Plug Valve	2,947.34	24.65
23 05 23 00-0309 Plug Valves, Eccentric, Cast Iron Flanged (23 05 23 00-0283)		
23 05 23 00-0310 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	1,278.04	355.40
23 05 23 00-0311 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	1,954.97	420.20
23 05 23 00-0312 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	2,657.24	536.93
23 05 23 00-0313 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	3,762.84	653.65
23 05 23 00-0314 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	4,856.20	793.71
23 05 23 00-0315 Eccentric Valves With Taps (23 05 23)		
23 05 23 00-0316 Screwed Eccentric Valves With Taps (23 05 23 00-0315)		
23 05 23 00-0317 EA 1/2" Diameter Threaded, Eccentric Valves With Taps	277.61	13.54
23 05 23 00-0318 EA 3/4" Diameter Threaded, Eccentric Valves With Taps	296.41	14.89
23 05 23 00-0319 EA 1" Diameter Threaded, Eccentric Valves With Taps	373.58	16.93
23 05 23 00-0320 EA 1-1/4" Diameter Threaded, Eccentric Valves With Taps	453.77	18.01
23 05 23 00-0321 EA 1-1/2" Diameter Threaded, Eccentric Valves With Taps	496.45	20.85
23 05 23 00-0322 EA 2" Diameter Threaded, Eccentric Valves With Taps	583.77	24.65
23 05 23 00-0323 EA 2-1/2" Diameter Threaded, Eccentric Valves With Taps	878.86	33.29
23 05 23 00-0324 EA 3" Diameter Threaded, Eccentric Valves With Taps	1,066.40	38.65

**Heating, Ventilating, and Air-Conditioning (HVAC)****23****Common Work Results for HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0325 Flanged Eccentric Valves With Taps (23 05 23 00-0315)		
23 05 23 00-0326 EA 2-1/2" Diameter Flanged, Eccentric Valves With Taps	1,072.49	180.82
23 05 23 00-0327 EA 3" Diameter Flanged, Eccentric Valves With Taps	1,273.03	211.99
23 05 23 00-0328 EA 4" Diameter Flanged, Eccentric Valves With Taps	1,722.99	355.40
23 05 23 00-0329 EA 5" Diameter Flanged, Eccentric Valves With Taps	2,271.48	378.18
23 05 23 00-0330 EA 6" Diameter Flanged, Eccentric Valves With Taps	2,866.45	420.20
23 05 23 00-0331 EA 8" Diameter Flanged, Eccentric Valves With Taps	4,895.76	536.93
23 05 23 00-0332 EA 10" Diameter Flanged, Eccentric Valves With Taps	6,845.31	653.65
23 05 23 00-0333 EA 12" Diameter Flanged, Eccentric Valves With Taps	11,697.29	793.71
23 05 23 00-0334 Check Valves (23 05 23)		
23 05 23 00-0335 Iron Body Wafer Type Check Valve (23 05 23 00-0334)		
23 05 23 00-0336 Single Disk Type (23 05 23 00-0335)		
23 05 23 00-0337 EA 2" Diameter, Wafer Type, 125 Lb., Single Disc Type, Iron Body, Check Valve	509.30	180.60
For 150 Lb. Rating, Add	59.54	
For 200 Lb. Rating, Add	70.88	
For 300 Lb. Rating, Add	85.05	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	172.74	
23 05 23 00-0338 EA 2-1/2" Diameter, Wafer Type, 125 Lb., Single Disc Type, Iron Body, Check Valve	598.33	180.94
For 150 Lb. Rating, Add	78.00	
For 200 Lb. Rating, Add	92.86	
For 300 Lb. Rating, Add	111.43	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	212.53	
23 05 23 00-0339 EA 3" Diameter, Wafer Type, 125 Lb., Single Disc Type, Iron Body, Check Valve	735.01	212.14
For 150 Lb. Rating, Add	98.60	
For 200 Lb. Rating, Add	117.38	
For 300 Lb. Rating, Add	140.85	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	264.38	
23 05 23 00-0340 EA 4" Diameter, Wafer Type, 125 Lb., Single Disc Type, Iron Body, Check Valve	1,081.57	355.65
For 150 Lb. Rating, Add	133.54	
For 200 Lb. Rating, Add	158.98	
For 300 Lb. Rating, Add	190.77	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	375.29	
23 05 23 00-0341 EA 6" Diameter, Wafer Type, 125 Lb., Single Disc Type, Iron Body, Check Valve	1,619.98	499.15
For 150 Lb. Rating, Add	209.17	
For 200 Lb. Rating, Add	249.01	
For 300 Lb. Rating, Add	298.81	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	573.01	
23 05 23 00-0342 EA 8" Diameter, Wafer Type, 125 Lb., Single Disc Type, Iron Body, Check Valve	2,243.48	574.03
For 150 Lb. Rating, Add	320.99	
For 200 Lb. Rating, Add	382.14	
For 300 Lb. Rating, Add	458.56	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	830.83	
23 05 23 00-0343 EA 10" Diameter, Wafer Type, 125 Lb., Single Disc Type, Iron Body, Check Valve	3,321.30	698.82
For 150 Lb. Rating, Add	512.69	
For 200 Lb. Rating, Add	610.35	
For 300 Lb. Rating, Add	732.41	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	1,274.61	
23 05 23 00-0344 Twin Disc Type (23 05 23 00-0335)		
23 05 23 00-0345 EA 2" Diameter, Wafer Type, 125 Lb., Twin Disc Type, Iron Body, Check Valve	704.44	180.60
For 150 Lb. Rating, Add	100.51	
For 200 Lb. Rating, Add	119.66	
For 300 Lb. Rating, Add	143.59	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	260.55	
23 05 23 00-0346 EA 2-1/2" Diameter, Wafer Type, 125 Lb., Twin Disc Type, Iron Body, Check Valve	801.32	180.94
For 150 Lb. Rating, Add	120.63	
For 200 Lb. Rating, Add	143.61	
For 300 Lb. Rating, Add	172.33	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	303.87	
23 05 23 00-0347 EA 3" Diameter, Wafer Type, 125 Lb., Twin Disc Type, Iron Body, Check Valve	935.73	212.14
For 150 Lb. Rating, Add	140.75	
For 200 Lb. Rating, Add	167.56	
For 300 Lb. Rating, Add	201.07	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	354.70	
23 05 23 00-0348 EA 4" Diameter, Wafer Type, 125 Lb., Twin Disc Type, Iron Body, Check Valve	1,296.80	355.65
For 150 Lb. Rating, Add	178.74	
For 200 Lb. Rating, Add	212.78	
For 300 Lb. Rating, Add	255.34	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	472.14	
23 05 23 00-0349 EA 6" Diameter, Wafer Type, 125 Lb., Twin Disc Type, Iron Body, Check Valve	1,996.42	499.15
For 150 Lb. Rating, Add	288.22	
For 200 Lb. Rating, Add	343.12	
For 300 Lb. Rating, Add	411.74	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	742.40	
23 05 23 00-0350 EA 8" Diameter, Wafer Type, 125 Lb., Twin Disc Type, Iron Body, Check Valve	2,809.09	574.03
For 150 Lb. Rating, Add	440.16	
For 200 Lb. Rating, Add	524.00	
For 300 Lb. Rating, Add	628.80	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	1,085.82	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0351 EA 10" Diameter, Wafer Type, 125 Lb., Twin Disc Type, Iron Body, Check Valve.....	4,193.31	686.34
For 150 Lb. Rating, Add	697.08	
For 200 Lb. Rating, Add	829.86	
For 300 Lb. Rating, Add	995.83	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	1,668.52	
23 05 23 00-0352 EA 12" Diameter, Wafer Type, 125 Lb., Twin Disc Type, Iron Body, Check Valve.....	5,504.85	848.56
For 150 Lb. Rating, Add	933.94	
For 200 Lb. Rating, Add	1,111.83	
For 300 Lb. Rating, Add	1,334.20	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	2,212.80	
23 05 23 00-0353 Lift Check Valves (23 05 23 00-0334)		
23 05 23 00-0354 Bronze Body, Threaded, Vertical Lift Check Valves (23 05 23 00-0353)		
Note: Watts #600 series.		
23 05 23 00-0355 EA 3/8" Diameter Threaded, Bronze, Lift Check Valve.....	131.03	13.54
23 05 23 00-0356 EA 1/2" Diameter Threaded, Bronze, Lift Check Valve.....	138.63	13.54
23 05 23 00-0357 EA 3/4" Diameter Threaded, Bronze, Lift Check Valve.....	177.13	14.21
23 05 23 00-0358 EA 1" Diameter Threaded, Bronze, Lift Check Valve.....	232.66	14.21
23 05 23 00-0359 EA 1-1/4" Diameter Threaded, Bronze, Lift Check Valve.....	321.60	18.01
23 05 23 00-0360 EA 1-1/2" Diameter Threaded, Bronze, Lift Check Valve.....	390.59	20.85
23 05 23 00-0361 EA 2" Diameter Threaded, Bronze, Lift Check Valve.....	553.77	24.65
23 05 23 00-0362 Bronze Body, Threaded, 300 Lb., Lift Check Valves (23 05 23 00-0353)		
Note: Crane 366E.		
23 05 23 00-0363 EA 1/2" Diameter Threaded, 300 Lb., Bronze, Lift Check Valve.....	787.35	13.54
23 05 23 00-0364 EA 3/4" Diameter Threaded, 300 Lb., Bronze, Lift Check Valve.....	957.06	14.21
23 05 23 00-0365 EA 1" Diameter Threaded, 300 Lb., Bronze, Lift Check Valve.....	1,713.16	14.21
23 05 23 00-0366 EA 1-1/4" Diameter Threaded, 300 Lb., Bronze, Lift Check Valve.....	2,282.67	18.01
23 05 23 00-0367 EA 1-1/2" Diameter Threaded, 300 Lb., Bronze, Lift Check Valve.....	2,480.08	20.85
23 05 23 00-0368 EA 2" Diameter Threaded, 300 Lb., Bronze, Lift Check Valve.....	3,184.69	24.65
23 05 23 00-0369 Iron Body, Flanged, 125 Lb. Vertical Lift Check Valves (23 05 23 00-0353)		
Note: Mueller 105MAP.		
23 05 23 00-0370 EA 2" Diameter Flanged, 125 Lb., Iron Body, Lift Check Valve.....	1,168.40	180.50
23 05 23 00-0371 EA 2-1/2" Diameter Flanged, 125 Lb., Iron Body, Lift Check Valve.....	2,151.38	180.82
23 05 23 00-0372 EA 3" Diameter Flanged, 125 Lb., Iron Body, Lift Check Valve.....	2,340.54	211.99
23 05 23 00-0373 EA 4" Diameter Flanged, 125 Lb., Iron Body, Lift Check Valve.....	3,234.14	355.40
23 05 23 00-0374 EA 5" Diameter Flanged, 125 Lb., Iron Body, Lift Check Valve.....	4,059.44	378.18
23 05 23 00-0375 EA 6" Diameter Flanged, 125 Lb., Iron Body, Lift Check Valve.....	5,021.26	420.20
23 05 23 00-0376 EA 8" Diameter Flanged, 125 Lb., Iron Body, Lift Check Valve.....	8,892.57	536.93
23 05 23 00-0377 EA 10" Diameter Flanged, 125 Lb., Iron Body, Lift Check Valve.....	11,173.51	653.65
23 05 23 00-0378 EA 12" Diameter Flanged, 125 Lb., Iron Body, Lift Check Valve.....	18,220.59	793.71
23 05 23 00-0379 Bronze Body Swing Check Valves (23 05 23 00-0334)		
23 05 23 00-0380 Bronze Body, Threaded, Brazed Or Soldered Installation, 125 Lb., Swing Check Valves (23 05 23 00-0379)		
23 05 23 00-0381 EA 1/8" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	90.68	13.54
For 300 Lb. Rating, Add	18.33	
For Work In Restricted Working Space, Add	13.10	
23 05 23 00-0382 EA 1/4" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	86.43	13.54
For 300 Lb. Rating, Add	18.33	
For Work In Restricted Working Space, Add	11.83	
23 05 23 00-0383 EA 3/8" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	88.50	13.54
For 300 Lb. Rating, Add	18.33	
For Work In Restricted Working Space, Add	12.45	
23 05 23 00-0384 EA 1/2" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	92.52	13.54
For 300 Lb. Rating, Add	19.05	
For Work In Restricted Working Space, Add	13.10	
23 05 23 00-0385 EA 3/4" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	118.06	14.21
For 300 Lb. Rating, Add	23.08	
For Work In Restricted Working Space, Add	17.66	
23 05 23 00-0386 EA 1" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	151.63	14.21
For 300 Lb. Rating, Add	31.34	
For Work In Restricted Working Space, Add	21.38	
23 05 23 00-0387 EA 1-1/4" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	203.07	18.01
For 300 Lb. Rating, Add	43.99	
For Work In Restricted Working Space, Add	27.08	
23 05 23 00-0388 EA 1-1/2" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	262.13	20.85
For 300 Lb. Rating, Add	61.61	
For Work In Restricted Working Space, Add	31.25	
23 05 23 00-0389 EA 2" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	326.19	24.65
For 300 Lb. Rating, Add	79.21	
For Work In Restricted Working Space, Add	36.93	
23 05 23 00-0390 EA 2-1/2" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve.....	633.14	33.29
For 300 Lb. Rating, Add	182.08	
For Work In Restricted Working Space, Add	49.88	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23****Common Work Results for HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 05 23 00-0391	EA	3" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve..... <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	855.86 258.96 57.56	38.65
23 05 23 00-0392	EA	4" Diameter Threaded, Brazed Or Soldered, 125 Lb., Bronze, Swing Check Valve..... <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	969.62 293.05 65.47	43.65
23 05 23 00-0393 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0334)				
23 05 23 00-0394	EA	1" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	676.44 373.12 713.31 38.32	101.55
23 05 23 00-0395	EA	1-1/4" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	751.69 411.07 785.86 44.15	118.48
23 05 23 00-0396	EA	1-1/2" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	833.82 445.84 852.35 53.45	142.18
23 05 23 00-0397	EA	2" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,039.99 553.73 1,058.60 67.70	180.50
23 05 23 00-0398	EA	2-1/2" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,177.09 646.24 1,235.47 68.02	180.82
23 05 23 00-0399	EA	3" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,298.07 702.27 1,342.58 79.60	211.99
23 05 23 00-0400	EA	4" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,041.41 1,085.31 2,074.87 133.61	355.40
23 05 23 00-0401	EA	5" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,815.32 1,593.46 3,046.32 141.60	378.18
23 05 23 00-0402	EA	6" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,244.10 1,847.54 3,532.06 158.14	420.20
23 05 23 00-0403	EA	8" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,450.26 4,612.63 8,818.26 200.09	536.93
23 05 23 00-0404	EA	10" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,050.54 6,278.77 12,003.54 245.12	653.65
23 05 23 00-0405	EA	12" Diameter Flanged, 125 Lb. Iron Body, Bronze Trim, Swing Check Valves..... <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,389.56 9,791.44 18,718.93 297.11	793.71
23 05 23 00-0406	Plastic Check Valve (23 05 23 00-0334)			
23 05 23 00-0407	Polyvinyl Chloride (PVC) Check Valve (23 05 23 00-0406)			
23 05 23 00-0408	Polyvinyl Chloride (PVC) "Y" Check Valve (23 05 23 00-0407)			
23 05 23 00-0409	EA	1/2" Diameter Threaded Or Socket, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	101.70	13.54
23 05 23 00-0410	EA	3/4" Diameter Threaded Or Socket, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	121.18	14.89
23 05 23 00-0411	EA	1" Diameter Threaded Or Socket, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	139.65	16.93
23 05 23 00-0412	EA	1-1/4" Diameter Threaded Or Socket, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	197.76	18.01
23 05 23 00-0413	EA	1-1/2" Diameter Threaded Or Socket, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	220.61	20.85
23 05 23 00-0414	EA	2" Diameter Threaded Or Socket, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	372.04	22.69
23 05 23 00-0415	EA	2-1/2" Diameter Threaded Or Socket, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	453.91	33.29
23 05 23 00-0416	EA	3" Diameter Threaded Or Socket, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	498.40	38.65
23 05 23 00-0417	EA	4" Diameter Threaded Or Socket, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	719.84	43.65
23 05 23 00-0418	EA	3" Diameter Flanged, Polyvinyl Chloride (PVC) "Y" Type Check Valve.....	695.28	211.99
23 05 23 00-0419	Polyvinyl Chloride (PVC) True Union Ball Check Valve (23 05 23 00-0407)			
23 05 23 00-0420	Valves (23 05 23 00-0419)			
23 05 23 00-0421	EA	1/2" Diameter, Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	78.51	13.54
23 05 23 00-0422	EA	3/4" Diameter, Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	98.69	14.89
23 05 23 00-0423	EA	1" Diameter, Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	121.03	16.93
23 05 23 00-0424	EA	1-1/4" Diameter, Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	156.62	18.01
23 05 23 00-0425	EA	1-1/2" Diameter, Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	183.78	20.85
23 05 23 00-0426	EA	2" Diameter, Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	267.42	24.65

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0427 EA 3" Diameter, Polyvinyl Chloride (PVC) True Union Ball Check Valve	433.34	33.29
23 05 23 00-0428 EA 4" Diameter, Polyvinyl Chloride (PVC) True Union Ball Check Valve	727.64	38.65
23 05 23 00-0429 Foot Valve Screen (23 05 23 00-0419)		
Note: For use with PVC true union ball check valves above.		
23 05 23 00-0430 EA 1/2" Diameter, Foot Valve Screen Option	61.97	
23 05 23 00-0431 EA 3/4" Diameter, Foot Valve Screen Option	74.11	
23 05 23 00-0432 EA 1" Diameter, Foot Valve Screen Option	85.88	
23 05 23 00-0433 EA 1-1/4" Diameter, Foot Valve Screen Option	129.65	
23 05 23 00-0434 EA 1-1/2" Diameter, Foot Valve Screen Option	143.44	
23 05 23 00-0435 EA 2" Diameter, Foot Valve Screen Option	155.21	
23 05 23 00-0436 EA 2-1/2" Diameter, Foot Valve Screen Option	185.18	
23 05 23 00-0437 EA 3" Diameter, Foot Valve Screen Option	215.16	
23 05 23 00-0438 EA 4" Diameter, Foot Valve Screen Option	261.13	
23 05 23 00-0439 Hayward "True Check" With VITON Seals (23 05 23 00-0419)		
23 05 23 00-0440 EA 1/4" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	70.95	13.54
23 05 23 00-0441 EA 3/8" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	73.02	13.54
23 05 23 00-0442 EA 1/2" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	79.34	13.54
23 05 23 00-0443 EA 3/4" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	98.61	14.89
23 05 23 00-0444 EA 1" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	122.20	16.93
23 05 23 00-0445 EA 1-1/4" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	156.54	18.01
23 05 23 00-0446 EA 1-1/2" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	188.76	20.85
23 05 23 00-0447 EA 2" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	235.90	24.65
23 05 23 00-0448 EA 2-1/2" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	428.36	33.29
23 05 23 00-0449 EA 3" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	470.53	38.65
23 05 23 00-0450 EA 4" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	733.28	43.65
23 05 23 00-0451 Hayward "True Check" With Ethylene Propylene Diene Monomer (EPDM) Seals (23 05 23 00-0419)		
23 05 23 00-0452 EA 1/2" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	75.20	13.54
23 05 23 00-0453 EA 3/4" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	94.54	14.89
23 05 23 00-0454 EA 1" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	116.56	16.93
23 05 23 00-0455 EA 1-1/4" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	150.40	18.01
23 05 23 00-0456 EA 1-1/2" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	177.48	20.85
23 05 23 00-0457 EA 2" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	225.95	24.65
23 05 23 00-0458 EA 2-1/2" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	413.43	33.29
23 05 23 00-0459 EA 3" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	458.09	38.65
23 05 23 00-0460 EA 4" Diameter Socket Or Threaded, Polyvinyl Chloride (PVC) True Union Ball Check Valve	714.20	43.65
23 05 23 00-0461 Polyvinyl Chloride (PVC) Check Valve, Ethylene Propylene Diene Monomer (EPDM) Housing, Flanged (23 05 23 00-0407)		
23 05 23 00-0462 EA 1" Diameter, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing, Thermoplastic Check Valve	359.84	81.24
23 05 23 00-0463 EA 1-1/4" Diameter, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing, Thermoplastic Check Valve	392.71	94.78
23 05 23 00-0464 EA 1-1/2" Diameter, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing, Thermoplastic Check Valve	433.21	118.48
23 05 23 00-0465 EA 2" Diameter, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing, Thermoplastic Check Valve	529.17	148.95
23 05 23 00-0466 EA 2-1/2" Diameter, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing, Thermoplastic Check Valve	633.22	149.75
23 05 23 00-0467 EA 3" Diameter, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing, Thermoplastic Check Valve	860.62	174.70
23 05 23 00-0468 EA 4" Diameter, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing, Thermoplastic Check Valve	1,196.67	296.37
23 05 23 00-0469 EA 6" Diameter, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing, Thermoplastic Check Valve	1,968.80	499.15
23 05 23 00-0470 Swing Check Valves, 150 Lb. Polyvinyl Chloride (PVC) Socket Weld End Connections (23 05 23 00-0406)		
23 05 23 00-0471 EA 1/2" Diameter Socket Weld, 150 Lb., Duplex Polyvinyl Chloride (PVC), Check Valve	70.20	13.54
For Work In Restricted Working Space, Add	13.10	
23 05 23 00-0472 EA 3/4" Diameter Socket Weld, 150 Lb., Duplex Polyvinyl Chloride (PVC), Check Valve	85.40	14.89
For Work In Restricted Working Space, Add	17.66	
23 05 23 00-0473 EA 1" Diameter Socket Weld, 150 Lb., Duplex Polyvinyl Chloride (PVC), Check Valve	98.84	16.93
For Work In Restricted Working Space, Add	21.38	
23 05 23 00-0474 EA 1-1/4" Diameter Socket Weld, 150 Lb., Duplex Polyvinyl Chloride (PVC), Check Valve	118.98	18.01
For Work In Restricted Working Space, Add	27.08	
23 05 23 00-0475 EA 1-1/2" Diameter Socket Weld, 150 Lb., Duplex Polyvinyl Chloride (PVC), Check Valve	134.53	20.85
For Work In Restricted Working Space, Add	31.25	
23 05 23 00-0476 EA 2" Diameter Socket Weld, 150 Lb., Duplex Polyvinyl Chloride (PVC), Check Valve	170.32	24.65
For Work In Restricted Working Space, Add	36.93	
23 05 23 00-0477 EA 2-1/2" Diameter Socket Weld, 150 Lb., Duplex Polyvinyl Chloride (PVC), Check Valve	233.49	33.29
For Work In Restricted Working Space, Add	49.88	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23****Common Work Results for HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0478	EA	3" Diameter Socket Weld, 150 Lb., Duplex Polyvinyl Chloride (PVC), Check Valve..... <i>For Work In Restricted Working Space, Add</i>	279.08 57.56	38.65
23 05 23 00-0479		Polyvinyl Chloride (PVC) Body, Swing Check Valves (23 05 23 00-0406)		
23 05 23 00-0480		Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals (23 05 23 00-0479)		
23 05 23 00-0481	EA	3" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals	685.49 66.80	174.58
23 05 23 00-0482	EA	4" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals	884.31 110.03	296.16
23 05 23 00-0483	EA	6" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals	1,391.30 144.19	350.17
23 05 23 00-0484	EA	8" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals	1,846.53 163.41	443.55
23 05 23 00-0485		Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals (23 05 23 00-0479)		
23 05 23 00-0486	EA	3" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals	804.92 66.80	174.58
23 05 23 00-0487	EA	4" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals	1,148.05 110.03	296.16
23 05 23 00-0488	EA	6" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals	1,641.12 144.19	350.17
23 05 23 00-0489	EA	8" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals	2,145.11 163.41	443.55
23 05 23 00-0490		Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter Weights (23 05 23 00-0479)		
23 05 23 00-0491	EA	3" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights	836.44 66.80	174.58
23 05 23 00-0492	EA	4" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights	1,150.54 110.03	296.16
23 05 23 00-0493	EA	6" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights	1,530.64 144.19	350.17
23 05 23 00-0494	EA	8" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights	1,961.32 163.41	443.55
23 05 23 00-0495		Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals And Counter Weights (23 05 23 00-0479)		
23 05 23 00-0496	EA	3" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights	935.96 66.80	174.58
23 05 23 00-0497	EA	4" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights	1,295.69 110.03	296.16
23 05 23 00-0498	EA	6" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights	1,737.99 144.19	350.17
23 05 23 00-0499	EA	8" Diameter, Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights	2,210.14 163.41	443.55
23 05 23 00-0500		Butterfly Valves (23 05 23)		
23 05 23 00-0501		Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves (23 05 23 00-0500) Note: With on-off handle		
23 05 23 00-0502	EA	2" Diameter, Wafer Type, 150 PSI, Cast Iron, With Iron Disc, On Off Handle, Butterfly Valve	542.36 152.01 67.70	180.50
23 05 23 00-0503	EA	2-1/2" Diameter, Wafer Type, 150 PSI, Cast Iron, With Iron Disc, On Off Handle, Butterfly Valve	561.83 160.85 68.02	180.82
23 05 23 00-0504	EA	3" Diameter, Wafer Type, 150 PSI, Cast Iron, With Iron Disc, On Off Handle, Butterfly Valve	626.19 173.22 79.60	211.99
23 05 23 00-0505	EA	4" Diameter, Wafer Type, 150 PSI, Cast Iron, With Iron Disc, On Off Handle, Butterfly Valve	898.29 217.41 133.61	355.40
23 05 23 00-0506	EA	5" Diameter, Wafer Type, 150 PSI, Cast Iron, With Iron Disc, On Off Handle, Butterfly Valve	1,171.54 309.32 158.14	420.20
23 05 23 00-0507	EA	6" Diameter, Wafer Type, 150 PSI, Cast Iron, With Iron Disc, On Off Handle, Butterfly Valve	1,371.64 378.25 175.08	466.89

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0508 EA 8" Diameter, Wafer Type, 150 PSI, Cast Iron, With Iron Disc, On Off Handle, Butterfly Valve <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,852.70 569.15 200.09	536.93
23 05 23 00-0509 EA 10" Diameter, Wafer Type, 150 PSI, Cast Iron, With Iron Disc, On Off Handle, Butterfly Valve <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,114.85 1,102.94 245.12	653.65
23 05 23 00-0510 EA 12" Diameter, Wafer Type, 150 PSI, Cast Iron, With Iron Disc, On Off Handle, Butterfly Valve <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,917.86 1,405.19 297.11	793.71
23 05 23 00-0511 Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valves (23 05 23 00-0500)		
23 05 23 00-0512 EA 2" Diameter, Lug Type, 200 Lb., Cast Iron Body, Bronze Disc, Gear Operated, Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	1,094.72 67.70	180.50
23 05 23 00-0513 EA 2-1/2" Diameter, Lug Type, 200 Lb., Cast Iron Body, Bronze Disc, Gear Operated, Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	1,103.13 68.02	180.82
23 05 23 00-0514 EA 3" Diameter, Lug Type, 200 Lb., Cast Iron Body, Bronze Disc, Gear Operated, Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	1,185.91 79.60	211.99
23 05 23 00-0515 EA 4" Diameter, Lug Type, 200 Lb., Cast Iron Body, Bronze Disc, Gear Operated, Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	1,483.79 133.61	355.40
23 05 23 00-0516 EA 5" Diameter, Lug Type, 200 Lb., Cast Iron Body, Bronze Disc, Gear Operated, Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	1,819.64 158.14	420.20
23 05 23 00-0517 EA 6" Diameter, Lug Type, 200 Lb., Cast Iron Body, Bronze Disc, Gear Operated, Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	2,015.85 175.08	466.89
23 05 23 00-0518 EA 8" Diameter, Lug Type, 200 Lb., Cast Iron Body, Bronze Disc, Gear Operated, Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	2,522.89 200.09	536.93
23 05 23 00-0519 EA 10" Diameter, Lug Type, 200 Lb., Cast Iron Body, Bronze Disc, Gear Operated, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	3,214.27 245.12	653.65
23 05 23 00-0520 EA 12" Diameter, Lug Type, 200 Lb., Cast Iron Body, Bronze Disc, Gear Operated, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	4,473.90 297.11	793.71

END OF SECTION 23



Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation and Maintenance of Medium-Voltage Electrical Distribution		26 01 10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	EA	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.	
26 01 10 91-0002	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	540.61
		Note: 2mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	114.32
		For >20 To 50, Add	91.46
		For >50 To 100, Add	45.73
26 01 10 91-0003	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	704.52
		Note: 2mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	155.30
		For >20 To 50, Add	124.24
		For >50 To 100, Add	62.12
26 01 10 91-0004	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	1,065.10
		Note: 4mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	245.45
		For >20 To 50, Add	196.36
		For >50 To 100, Add	98.18
26 01 10 91-0005	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	538.82
		Note: 2mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	113.88
		For >20 To 50, Add	91.10
		For >50 To 100, Add	45.55
26 01 10 91-0006	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	691.17
		Note: 2mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	151.96
		For >20 To 50, Add	121.57
		For >50 To 100, Add	60.79
26 01 10 91-0007	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	1,035.46
		Note: 4mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	238.04
		For >20 To 50, Add	190.43
		For >50 To 100, Add	95.21
26 01 10 91-0008	EA	2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR)	422.60
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	84.82
		For >20 To 50, Add	67.86
		For >50 To 100, Add	33.93
26 01 10 91-0009	EA	3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR)	599.62
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	129.08
		For >20 To 50, Add	103.26
		For >50 To 100, Add	51.63
26 01 10 91-0010	EA	4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR)	857.77
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	193.61
		For >20 To 50, Add	154.89
		For >50 To 100, Add	77.45
26 01 10 91-0011	EA	2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	781.17
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	174.46
		For >20 To 50, Add	139.57
		For >50 To 100, Add	69.79
26 01 10 91-0012	EA	3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,077.33
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	248.50
		For >20 To 50, Add	198.80
		For >50 To 100, Add	99.40
26 01 10 91-0013	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,981.89
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	474.64
		For >20 To 50, Add	379.71
		For >50 To 100, Add	189.86

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014 EA 3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	898.89	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	203.89	
For >20 To 50, Add	163.11	
For >50 To 100, Add	81.56	
26 01 10 91-0015 EA 4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	1,327.71	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	311.10	
For >20 To 50, Add	248.88	
For >50 To 100, Add	124.44	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001	Lock Out/Tag Out Devices (26 01 20 91)	
	Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.	
26 01 20 91-0002 EA	Lock Out/Tag Out Local Disconnect	48.88
	Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	
26 01 20 91-0003 EA	Lock Out/Tag Out Breaker Or Motor Starter	48.88
	Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	
26 01 20 91-0004 EA	Lock Out Padlock Device.....	13.58
	Note: Includes the installation and removal of pad lock when required	
26 01 20 91-0005 EA	Lock Out Tags	5.14
	Note: Includes filling out tag information, installation and removal of identifying tags.	
26 01 20 91-0006	Existing Circuit Tracing (26 01 20 91)	
26 01 20 91-0007 EA	Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device.....	28.22
26 01 20 91-0008 EA	Lighting, Existing Circuit Tracing Per Circuit	28.22

26 01 26 Maintenance Testing of Electrical Systems (26 01)

26 01 26 00-0001	NETA Electrical Maintenance Testing (26 01 26)	
26 01 26 00-0002 EA	600 Volt Cable Insulation NETA Electrical Maintenance Testing Per Conductor.....	363.75
26 01 26 00-0003 EA	NETA Field Maintenance Testing Of Aged Medium Voltage (5 KV - 15 KV) Cables, Per Cable	485.00
	Note: Provide test equipment, labor, and technical personnel as necessary to perform the electrical maintenance tests. Perform Full Dielectric-Absorption (Megger) test, DC High Potential test and provide "Final Test Report".	
26 01 26 00-0004 EA	Panel Board NETA Electrical Maintenance Testing	363.75
	Note: Excludes metering and CT's.	
26 01 26 00-0005 EA	Primary Injection Breaker NETA Electrical Maintenance Testing	545.62
	Note: Includes setting breaker 3 phase from 400 amperes to 1,200 amperes.	
26 01 26 00-0006 EA	Primary Injection Breaker NETA Electrical Maintenance Testing	727.50
	Note: Includes setting breaker 3 phase from 1,200 amperes to 2,000 amperes.	
26 01 26 00-0007 EA	Primary And Secondary Injection Low Voltage Air Circuit Breaker NETA Electrical Maintenance Testing.....	1,091.25
	Note: Includes CT ratio test to include setting breaker 3 phase 400A to 2000A. Excludes breaker removal from gear.	
26 01 26 00-0008 EA	Single, Primary And Secondary Acceptance Test, 400 Amperes Circuit Breaker NETA Electrical Maintenance Testing.....	727.50
	Note: Includes CT ratio test to include setting breaker 3 phase 400 Amperes to 2000 Amperes. Excludes breaker removal from gear.	
26 01 26 00-0009 EA	2 To 3, Primary And Secondary Acceptance Test, 400 Amperes Circuit Breaker NETA Electrical Maintenance Testing.....	454.69
	Note: Includes CT ratio test to include setting breaker 3 phase 400 Amperes to 2,000 Amperes. Excludes breaker removal from gear.	
26 01 26 00-0010 EA	4 Or More, Primary And Secondary Acceptance Test, 400 Amperes Circuit Breaker NETA Electrical Testing.....	318.28
	Note: Includes CT ratio test to include setting breaker 3 phase 400 Amperes to 2000 Amperes. Excludes breaker removal from gear.	
26 01 26 00-0011	TTR Maintenance Testing Or Meggar Maintenance Testing of Transformers (26 01 26)	
	Note: Includes all required small tools and equipment. Use other MRO tasks required to remove equipment cover.	
26 01 26 00-0012	TTR Maintenance Testing Or Meggar Maintenance Testing of Transformers, Not Connected (26 01 26 00-0011)	
26 01 26 00-0013 EA	TTR Or Meggar Maintenance Testing Of Up To 15 KVA, Single Phase Transformer, Not Connected.....	33.87
26 01 26 00-0014 EA	TTR Or Meggar Maintenance Testing Of >15 To 50 KVA, Single Phase Transformer, Not Connected	56.45
26 01 26 00-0015 EA	TTR Or Meggar Maintenance Testing Of 75 KVA, Single Phase Transformer, Not Connected	79.02
26 01 26 00-0016 EA	TTR Or Meggar Maintenance Testing Of 100 KVA, Single Phase Transformer, Not Connected	101.61
26 01 26 00-0017 EA	TTR Or Meggar Maintenance Testing Of 150 KVA, Single Phase Transformer, Not Connected	124.19
26 01 26 00-0018 EA	TTR Or Meggar Maintenance Testing Of 167 KVA, Single Phase Transformer, Not Connected	146.77
26 01 26 00-0019 EA	TTR Or Meggar Maintenance Testing Of 200 KVA, Single Phase Transformer, Not Connected	158.06
26 01 26 00-0020 EA	TTR Or Meggar Maintenance Testing Of 250 KVA, Single Phase Transformer, Not Connected	169.34
26 01 26 00-0021 EA	TTR Or Meggar Maintenance Testing Of Up To 15 KVA, Three Phase Transformer, Not Connected	56.45
26 01 26 00-0022 EA	TTR Or Meggar Maintenance Testing Of >15 To 45 KVA, Three Phase Transformer, Not Connected	79.02
26 01 26 00-0023 EA	TTR Or Meggar Maintenance Testing Of 75 KVA, Three Phase Transformer, Not Connected	101.61
26 01 26 00-0024 EA	TTR Or Meggar Maintenance Testing Of 112.5 KVA, Three Phase Transformer, Not Connected	112.89



		Electrical	26
		Operation and Maintenance of Electrical Systems	26 01
		Maintenance Testing of Electrical Systems	26 01 26

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 26 00-0025 EA TTR Or Megger Maintenance Testing Of 150 KVA, Three Phase Transformer, Not Connected	158.06	
26 01 26 00-0026 EA TTR Or Megger Maintenance Testing Of 225 KVA, Three Phase Transformer, Not Connected	180.64	
26 01 26 00-0027 EA TTR Or Megger Testing Of 300 KVA, Three Phase Transformer, Not Connected	203.21	
26 01 26 00-0028 TTR Maintenance Testing Or Meggar Maintenance Testing of Transformers, Connected (26 01 26 00-0011)		
26 01 26 00-0029 EA TTR Or Megger Maintenance Testing Of Up To 15 KVA, Single Phase Transformer, Connected	56.45	
26 01 26 00-0030 EA TTR Or Megger Maintenance Testing Of >15 To 50 KVA, Single Phase Transformer, Connected	79.02	
26 01 26 00-0031 EA TTR Or Megger Maintenance Testing Of 75 KVA, Single Phase Transformer, Connected	90.32	
26 01 26 00-0032 EA TTR Or Megger Maintenance Testing Of 100 KVA, Single Phase Transformer, Connected	112.89	
26 01 26 00-0033 EA TTR Or Megger Maintenance Testing Of 150 KVA, Single Phase Transformer, Connected	158.06	
26 01 26 00-0034 EA TTR Or Megger Maintenance Testing Of 167 KVA, Single Phase Transformer, Connected	191.93	
26 01 26 00-0035 EA TTR Or Megger Maintenance Testing Of 200 KVA, Single Phase Transformer, Connected	203.21	
26 01 26 00-0036 EA TTR Or Megger Maintenance Testing Of 250 KVA, Single Phase Transformer, Connected	214.51	
26 01 26 00-0037 EA TTR Or Megger Maintenance Testing Of Up To 15 KVA, Three Phase Transformer, Connected	79.02	
26 01 26 00-0038 EA TTR Or Megger Maintenance Testing Of >15 To 45 KVA, Three Phase Transformer, Connected	101.61	
26 01 26 00-0039 EA TTR Or Megger Maintenance Testing Of 75 KVA, Three Phase Transformer, Connected	135.48	
26 01 26 00-0040 EA TTR Or Megger Maintenance Testing Of 112.5 KVA, Three Phase Transformer, Connected	180.64	
26 01 26 00-0041 EA TTR Or Megger Maintenance Testing Of 150 KVA, Three Phase Transformer, Connected	203.21	
26 01 26 00-0042 EA TTR Or Megger Maintenance Testing Of 225 KVA, Three Phase Transformer, Connected	237.08	
26 01 26 00-0043 EA TTR Or Megger Testing Of 300 KVA, Three Phase Transformer, Connected	304.82	
26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)		
26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01 30)		
26 01 30 91-0001 Emergency Generator Permits (26 01 30 91)		
26 01 30 91-0002 Air Pollution Control Board (26 01 30 91-0001)		
26 01 30 91-0003 EA APCD Permit To Construct And Operate Emergency Generator.....	5,181.28	
26 01 50 Operation and Maintenance of Lighting (26 01)		
26 01 50 51 Luminaire Relamping (26 01 50)		
26 01 50 51-0001 Replace Lamps In Existing Fixtures (26 01 50 51) Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps.		
26 01 50 51-0002 Halogen Lamps (26 01 50 51-0001)		
26 01 50 51-0003 EA 300 Watt, T3, Tungsten Halogen Lamp	62.85	
26 01 50 51-0004 EA 500 Watt, T3, Tungsten Halogen Lamp	81.35	
26 01 50 51-0005 EA 1,000 Watt, T3, Tungsten Halogen Lamp	121.87	
26 01 50 51-0006 EA 90 Watt, PAR38, Halogen Lamp	28.70	
26 01 50 51-0007 EA 100 Watt, PAR38, Halogen Lamp	28.70	
26 01 50 51-0008 EA 60 Watt, PAR38, Halogen IR Reflective Lamp	40.15	
26 01 50 51-0009 EA 67 Watt, PAR38, Halogen IR Reflective Lamp	44.07	
26 01 50 51-0010 EA 70 Watt, PAR38, Halogen IR Reflective Lamp	43.06	
26 01 50 51-0011 EA 90 Watt, PAR38, Halogen IR Reflective Lamp	46.05	
26 01 50 51-0012 EA 100 Watt, PAR38, Halogen IR Reflective Lamp.....	46.69	
26 01 50 51-0013 EA 20-50 Watt, 12 Volt MR16 Low-Voltage Halogen Lamp	20.05	
26 01 50 51-0014 EA 20-37 Watt, Infrared Reflecting, 12 Volt MR16 Low-Voltage Halogen Lamp	27.53	
26 01 50 51-0015 EA 50 Watt, Infrared Reflecting, 12 Volt MR16 Low-Voltage Halogen Lamp	26.43	
26 01 50 51-0016 EA 12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10).....	25.17	
26 01 50 51-0017 EA 12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20).....	25.17	
26 01 50 51-0018 EA 12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25).....	27.53	
26 01 50 51-0019 EA 12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36).....	27.53	
26 01 50 51-0020 Incandescent Lamps (26 01 50 51-0001)		
26 01 50 51-0021 EA 100 Watt, Frosted, Interior Incandescent Lamp	7.82	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.25	
26 01 50 51-0022 EA 150 Watt, Frosted, Interior Incandescent Lamp	9.90	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.25	
26 01 50 51-0023 EA 200 Watt, Frosted, Interior Incandescent Lamp	12.25	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.25	
26 01 50 51-0024 EA 300 Watt, PS25, Interior Incandescent Lamp	15.20	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.25	
26 01 50 51-0025 EA 60 Watt, G25, Clear, Interior Incandescent Lamp.....	11.22	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.25	
26 01 50 51-0026 EA 75 Watt, R20, Interior Incandescent Lamp	18.04	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.70	
26 01 50 51-0027 EA 75 Watt, PAR38, Exterior Incandescent Lamp	22.17	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.70	
26 01 50 51-0028 EA 100 Watt, PAR38, Exterior Incandescent Lamp	20.52	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.70	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0029 EA 150 Watt, PAR38, Exterior Incandescent Lamp.....	36.19	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.70	
26 01 50 51-0030 EA 250 Watt, PAR38, Exterior Incandescent Lamp.....	75.51	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.15	
26 01 50 51-0031 EA 300 Watt, PAR56, Exterior Incandescent Lamp.....	87.01	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.15	
26 01 50 51-0032 Exit Light Lamps (26 01 50 51-0001)		
26 01 50 51-0033 EA Convert Exit Light Lamps To Red LED Lamps	131.78	
For Green LED Lamps, Add	25.00	
26 01 50 51-0034 EA Fluorescent Lamp For Exit Light	37.62	
For Removal Of Multiple Lamps In A Fixture, Deduct	-8.99	
26 01 50 51-0035 EA Lamp Replacement For Emergency Lights On Exit Sign	51.13	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.50	
26 01 50 51-0036 Fluorescent Lamps (26 01 50 51-0001)		
26 01 50 51-0037 EA 18", 15 Watt, T8 Fluorescent Lamp	14.14	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0038 EA 2', 17 Watt, T8 Fluorescent Lamp	16.94	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0039 EA 3', 25 Watt, T8 Fluorescent Lamp	19.45	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0040 EA 4', 32 Watt, T8 Fluorescent Lamp	19.38	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0041 EA 4', 30 Watt, T8 Fluorescent Lamp	24.28	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0042 EA 4', 28 Watt, T8 Fluorescent Lamp	21.34	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0043 EA 4', 25 Watt, T8 Fluorescent Lamp	21.22	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0044 EA 4', 44 Watt, T8HO Fluorescent Lamp.....	33.88	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0045 EA 8', 59 Watt, T8 Fluorescent Lamp	25.93	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0046 EA 18", 15 Watt, T12 Fluorescent Lamp	21.19	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0047 EA 2', 20 Watt, T12 Fluorescent Lamp	16.14	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0048 EA 3', 30 Watt, T12 Fluorescent Lamp	18.12	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0049 EA 4', 34 Watt, T12 Fluorescent Lamp	18.21	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0050 EA 4', 40 Watt, T12 Fluorescent Lamp	17.84	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0051 EA 8', 60 Watt, T12 Fluorescent Lamp.....	26.57	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0052 EA 8', 75 Watt, T12 Fluorescent Lamp	22.51	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0053 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp.....	38.26	
26 01 50 51-0054 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp.....	21.45	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0055 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp.....	17.70	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0056 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp.....	17.13	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0057 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp.....	18.92	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0058 EA 6", 4 Watt, T5 Fluorescent Lamp	15.66	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0059 EA 9", 6 Watt, T5 Fluorescent Lamp	15.40	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0060 EA 12", 8 Watt, T5 Fluorescent Lamp	15.89	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0061 EA 21", 13 Watt, T5 Fluorescent Lamp	16.60	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0062 EA 24", 14 Watt, T5 Fluorescent Lamp	19.08	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0063 EA 34", 21 Watt, T5 Fluorescent Lamp	20.76	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0064 EA 46", 28 Watt, T5 Fluorescent Lamp	20.12	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0065 EA 46", 54 Watt, T5HO Fluorescent Lamp	21.98	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0066 EA 46", 54 Watt T5 Fluorescent Lamp	20.45	
26 01 50 51-0067 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp.....	31.14	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.50	
26 01 50 51-0068 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp.....	30.04	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.50	
26 01 50 51-0069 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp	27.79	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.25	
26 01 50 51-0070 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp	12.32	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0071 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp <i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	13.61 -2.25	
26 01 50 51-0072 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	36.30	
26 01 50 51-0073 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	36.30	
26 01 50 51-0074 EA 32 Watt 2D (DoubleD) Fluorescent Lamp	68.05	
26 01 50 51-0075 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp	24.79	
26 01 50 51-0076 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps	12.82	
26 01 50 51-0077 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps	11.08	
26 01 50 51-0078 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps	11.62	
26 01 50 51-0079 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps	47.54	
26 01 50 51-0080 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps	51.85	
26 01 50 51-0081 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps	98.65	
26 01 50 51-0082 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps	118.15	
26 01 50 51-0083 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps	122.12	
26 01 50 51-0084 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps	44.38	
26 01 50 51-0085 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps	46.28	
26 01 50 51-0086 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps	53.43	
26 01 50 51-0087 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0088 EA 50 Watt, Pulse Start Metal Halide Lamp	53.80	
26 01 50 51-0089 EA 70 Watt, Pulse Start Metal Halide Lamp	51.50	
26 01 50 51-0090 EA 100 Watt, Pulse Start Metal Halide Lamp	58.75	
26 01 50 51-0091 EA 150 Watt, Pulse Start Metal Halide Lamp	57.11	
26 01 50 51-0092 EA 175 Watt, Pulse Start Metal Halide Lamp	56.63	
26 01 50 51-0093 EA 250 Watt, Pulse Start Metal Halide Lamp	56.96	
26 01 50 51-0094 EA 400 Watt, Pulse Start Metal Halide Lamp	68.51	
26 01 50 51-0095 EA 1,000 Watt, Pulse Start Metal Halide Lamp	79.58	
26 01 50 51-0096 EA 1,500 Watt, Pulse Start Metal Halide Lamp	79.13	
26 01 50 51-0097 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0098 EA 35 Watt, High Pressure Sodium Lamp	44.46	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.46	
26 01 50 51-0099 EA 50 Watt, High Pressure Sodium Lamp	44.46	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.46	
26 01 50 51-0100 EA 70 Watt, High Pressure Sodium Lamp	45.44	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.46	
26 01 50 51-0101 EA 100 Watt, High Pressure Sodium Lamp	47.33	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.46	
26 01 50 51-0102 EA 150 Watt, High Pressure Sodium Lamp	45.44	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.46	
26 01 50 51-0103 EA 250 Watt, High Pressure Sodium Lamp	45.44	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.46	
26 01 50 51-0104 EA 400 Watt, High Pressure Sodium Lamp	42.64	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.46	
26 01 50 51-0105 EA 1,000 Watt, High Pressure Sodium Lamp	98.45	
26 01 50 51-0106 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0107 EA 35 Watt, Low Pressure Sodium Lamp	112.50	
26 01 50 51-0108 EA 55 Watt, Low Pressure Sodium Lamp	125.49	
26 01 50 51-0109 EA 70 Watt, Low Pressure Sodium Lamp	128.42	
26 01 50 51-0110 EA 90 Watt, Low Pressure Sodium Lamp	131.34	
26 01 50 51-0111 EA 135 Watt, Low Pressure Sodium Lamp	143.05	
26 01 50 51-0112 EA 180 Watt, Low Pressure Sodium Lamp	195.73	
26 01 50 51-0113 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0114 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0113)		
26 01 50 51-0115 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star)	27.21	
26 01 50 51-0116 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0113)		
26 01 50 51-0117 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	38.58	
26 01 50 51-0118 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	38.58	
26 01 50 51-0119 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	69.11	
26 01 50 51-0120 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	46.29	
26 01 50 51-0121 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	88.19	
26 01 50 51-0122 LED Lamps, Medium Base, BR30 Or BR40 (26 01 50 51-0113)		
26 01 50 51-0123 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	51.11	
26 01 50 51-0124 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	44.66	
26 01 50 51-0125 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	61.79	
26 01 50 51-0126 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	50.38	
26 01 50 51-0127 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	69.42	
26 01 50 51-0128 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	50.38	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 51-0129 LED Lamps, Medium Base, PAR (26 01 50 51-0113)

26 01 50 51-0130	EA	7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	57.21
26 01 50 51-0131	EA	12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	80.91
26 01 50 51-0132	EA	16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	80.91
26 01 50 51-0133	EA	15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	77.09
26 01 50 51-0134	EA	12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	73.28
26 01 50 51-0135	EA	15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	73.28
26 01 50 51-0136	EA	18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	150.36
26 01 50 51-0137	EA	15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	80.91
26 01 50 51-0138	EA	18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	77.09
26 01 50 51-0139	EA	19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	80.91
26 01 50 51-0140	EA	24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	80.91

26 01 50 51-0141 LED Lamps, GU Base, MR16 (26 01 50 51-0113)

26 01 50 51-0142	EA	4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star)	37.03
26 01 50 51-0143	EA	6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star)	51.11
26 01 50 51-0144	EA	8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star)	57.21

26 01 50 51-0145 LED Lamps, PL Series (26 01 50 51-0113)

26 01 50 51-0146	EA	3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23)	18.47
26 01 50 51-0147	EA	26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR)	24.58
26 01 50 51-0148	EA	26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR)	21.05
26 01 50 51-0149	EA	26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR)	23.26
26 01 50 51-0150	EA	26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR)	23.26
26 01 50 51-0151	EA	26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR)	27.24
26 01 50 51-0152	EA	13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR)	23.26
26 01 50 51-0153	EA	13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR)	23.26
26 01 50 51-0154	EA	13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR)	23.26
26 01 50 51-0155	EA	13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR)	23.26
26 01 50 51-0156	EA	26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR)	25.91
26 01 50 51-0157	EA	26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR)	25.91
26 01 50 51-0158	EA	26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR)	25.91
26 01 50 51-0159	EA	26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR)	25.91
26 01 50 51-0160	EA	26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR)	24.58
26 01 50 51-0161	EA	13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR)	24.58
26 01 50 51-0162	EA	13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR)	24.58
26 01 50 51-0163	EA	13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR)	25.47
26 01 50 51-0164	EA	13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR)	25.47
26 01 50 51-0165	EA	26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP)	25.66
26 01 50 51-0166	EA	26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP)	25.66
26 01 50 51-0167	EA	26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP)	25.66
26 01 50 51-0168	EA	26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP)	25.66
26 01 50 51-0169	EA	13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP)	26.35
26 01 50 51-0170	EA	13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP)	26.35
26 01 50 51-0171	EA	13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26)	26.35
26 01 50 51-0172	EA	13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26)	26.35
26 01 50 51-0173	EA	13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26)	26.35
26 01 50 51-0174	EA	13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24)	26.35
26 01 50 51-0175	EA	13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24)	26.35
26 01 50 51-0176	EA	13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24)	26.35
26 01 50 51-0177	EA	26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP)	33.26
26 01 50 51-0178	EA	26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP)	33.26
26 01 50 51-0179	EA	26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP)	33.26
26 01 50 51-0180	EA	26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP)	31.67
26 01 50 51-0181	EA	13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP)	31.67
26 01 50 51-0182	EA	13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP)	31.67
26 01 50 51-0183	EA	4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898)	28.24

26 01 50 51-0184 HID LED Lamps, Medium Base E26 (26 01 50 51-0113)

26 01 50 51-0185	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26)	62.17
26 01 50 51-0186	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26)	62.17
26 01 50 51-0187	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26)	78.52
26 01 50 51-0188	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26)	78.52
26 01 50 51-0189	EA	10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	55.32
26 01 50 51-0190	EA	10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	55.32
26 01 50 51-0191	EA	10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	55.32
26 01 50 51-0192	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	55.32
26 01 50 51-0193	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	57.09
26 01 50 51-0194	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	57.09
26 01 50 51-0195	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	57.09
26 01 50 51-0196	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	57.09
26 01 50 51-0197	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	64.17
26 01 50 51-0198	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	64.17
26 01 50 51-0199	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	64.17
26 01 50 51-0200	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	64.17
26 01 50 51-0201	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	73.01
26 01 50 51-0202	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	73.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0203 EA 25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	73.01	
26 01 50 51-0204 EA 25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	73.01	
26 01 50 51-0205 EA 30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	92.46	
26 01 50 51-0206 EA 30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	92.46	
26 01 50 51-0207 EA 30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	92.46	
26 01 50 51-0208 EA 30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	92.46	
26 01 50 51-0209 EA 40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	109.27	
26 01 50 51-0210 EA 40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	109.27	
26 01 50 51-0211 EA 40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	109.27	
26 01 50 51-0212 EA 40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	109.27	
26 01 50 51-0213 EA 60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	120.76	
26 01 50 51-0214 EA 60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	120.76	
26 01 50 51-0215 EA 60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	120.76	
26 01 50 51-0216 EA 60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	120.76	
26 01 50 51-0217 EA 80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	162.32	
26 01 50 51-0218 EA 80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	162.32	
26 01 50 51-0219 EA 80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	162.32	
26 01 50 51-0220 EA 80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	162.32	
26 01 50 51-0221 EA 100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	167.63	
26 01 50 51-0222 EA 100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	167.63	
26 01 50 51-0223 EA 100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	167.63	
26 01 50 51-0224 EA 100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	167.63	
26 01 50 51-0225 EA 120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	198.58	
26 01 50 51-0226 EA 120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	198.58	
26 01 50 51-0227 EA 120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	198.58	
26 01 50 51-0228 EA 120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	198.58	
26 01 50 51-0229 EA 150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	235.72	
26 01 50 51-0230 EA 150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	235.72	
26 01 50 51-0231 EA 150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	235.72	
26 01 50 51-0232 EA 150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	235.72	
26 01 50 51-0233 EA 20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT40KMED-G6)	76.73	
26 01 50 51-0234 EA 20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT50KMED-G6)	82.92	
26 01 50 51-0235 EA 27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT40KMED-G5)	82.92	
26 01 50 51-0236 EA 27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT50KMED-G5)	76.73	
26 01 50 51-0237 EA 36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT40KMED-G5)	96.18	
26 01 50 51-0238 EA 36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT50KMED-G5)	88.23	
26 01 50 51-0239 EA 45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT40KMED-G5)	105.91	
26 01 50 51-0240 EA 45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT50KMED-G5)	104.87	
26 01 50 51-0241 EA 54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT40KMED-G5)	107.24	
26 01 50 51-0242 EA 54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT50KMED-G5)	107.24	
26 01 50 51-0243 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT40KMED-G7)	65.26	
26 01 50 51-0244 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT50KMED-G7)	65.26	
26 01 50 51-0245 EA 36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT40KMED-G7)	73.44	
26 01 50 51-0246 EA 36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT50KMED-G7)	73.44	
26 01 50 51-0247 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT40KMED-G7)	78.88	
26 01 50 51-0248 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT50KMED-G7)	78.88	
26 01 50 51-0249 EA 54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT40KMED-G7)	87.05	
26 01 50 51-0250 EA 54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT50KMED-G7)	87.05	
26 01 50 51-0251 EA 20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	87.47	
26 01 50 51-0252 EA 30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	94.73	
26 01 50 51-0253 EA 40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	117.63	
26 01 50 51-0254 EA 50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	129.48	
26 01 50 51-0255 EA 10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	51.39	
26 01 50 51-0256 EA 15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	57.76	
26 01 50 51-0257 EA 20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	60.94	
26 01 50 51-0258 EA 25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	66.87	
26 01 50 51-0259 EA 15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148015-UNV)	80.24	
26 01 50 51-0260 EA 20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148020-UNV)	93.85	
26 01 50 51-0261 EA 25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148025-UNV)	127.86	
26 01 50 51-0262 EA 30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148030-UNV)	134.66	
26 01 50 51-0263 EA 35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148035-UNV)	145.55	
26 01 50 51-0264 EA 40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148040-UNV)	152.35	
26 01 50 51-0265 EA 60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148060-UNV)	219.01	
26 01 50 51-0266 EA 20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	69.69	
26 01 50 51-0267 HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0113)		
26 01 50 51-0268 EA 120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	209.73	
26 01 50 51-0269 EA 120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	209.73	
26 01 50 51-0270 EA 120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	209.73	
26 01 50 51-0271 EA 27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	62.17	
26 01 50 51-0272 EA 27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	62.17	
26 01 50 51-0273 EA 27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39)	62.17	
26 01 50 51-0274 EA 45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39)	78.52	
26 01 50 51-0275 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R)	78.52	
26 01 50 51-0276 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39)	78.52	
26 01 50 51-0277 EA 80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39)	144.85	
26 01 50 51-0278 EA 80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039)	162.32	
26 01 50 51-0279 EA 80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039)	162.32	
26 01 50 51-0280 EA 80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039)	162.32	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 51-0281	EA	80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039)	162.32
26 01 50 51-0282	EA	100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039)	167.63
26 01 50 51-0283	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039)	167.63
26 01 50 51-0284	EA	100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039)	167.63
26 01 50 51-0285	EA	100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039)	167.63
26 01 50 51-0286	EA	120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039)	198.58
26 01 50 51-0287	EA	120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039)	198.58
26 01 50 51-0288	EA	120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039)	198.58
26 01 50 51-0289	EA	120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039)	198.58
26 01 50 51-0290	EA	150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039)	235.72
26 01 50 51-0291	EA	150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039)	235.72
26 01 50 51-0292	EA	150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039)	235.72
26 01 50 51-0293	EA	150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039)	235.72
26 01 50 51-0294	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5)	82.92
26 01 50 51-0295	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5)	82.92
26 01 50 51-0296	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5)	96.18
26 01 50 51-0297	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5)	94.96
26 01 50 51-0298	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5)	105.91
26 01 50 51-0299	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5)	104.87
26 01 50 51-0300	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5)	107.24
26 01 50 51-0301	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5)	104.16
26 01 50 51-0302	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5)	224.41
26 01 50 51-0303	EA	20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT/180/40KMOG-G7)	82.89
26 01 50 51-0304	EA	20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT/180/50KMOG-G7)	82.89
26 01 50 51-0305	EA	30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT/180/40KMOG-G7)	93.89
26 01 50 51-0306	EA	30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT/180/50KMOG-G7)	93.89
26 01 50 51-0307	EA	40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT/180/40KMOG-G7)	100.51
26 01 50 51-0308	EA	40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT/180/50KMOG-G7)	100.51
26 01 50 51-0309	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7)	65.15
26 01 50 51-0310	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7)	65.15
26 01 50 51-0311	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7)	73.44
26 01 50 51-0312	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7)	73.44
26 01 50 51-0313	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7)	78.88
26 01 50 51-0314	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7)	78.88
26 01 50 51-0315	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7)	87.05
26 01 50 51-0316	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7)	87.05
26 01 50 51-0317	EA	65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39)	155.92
26 01 50 51-0318	EA	80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39)	180.15
26 01 50 51-0319	EA	100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39)	214.64
26 01 50 51-0320	EA	120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39)	417.72
26 01 50 51-0321	EA	150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39)	394.53
26 01 50 51-0322	EA	200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39)	417.72
26 01 50 51-0323	EA	250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39)	419.53
26 01 50 51-0324	EA	24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A)	64.75
26 01 50 51-0325	EA	24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A)	64.75
26 01 50 51-0326	EA	24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A)	64.75
26 01 50 51-0327	EA	100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50)	189.65
26 01 50 51-0328	EA	115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D)	434.18
26 01 50 51-0329	EA	40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K)	181.64
26 01 50 51-0330	EA	100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K)	213.64
26 01 50 51-0331	EA	45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K)	95.28
26 01 50 51-0332	EA	40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K)	303.16

26 01 50 51-0333 LED Lamps, 2G11 Base (26 01 50 51-0113)

26 01 50 51-0334	EA	19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PL/835/DIR)	51.22

26 01 50 51-0335 LED Lamps, GX23 Or G23 Base (26 01 50 51-0113)

26 01 50 51-0336	EA	5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4)	25.39

26 01 50 51-0337 LED Lamps, G24 Base (26 01 50 51-0113)

26 01 50 51-0338	EA	5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PL/835/DIR/R)	32.88

26 01 50 51-0339 LED Tubes (Fluorescent Lamp Replacement) (26 01 50 51-0113)

26 01 50 51-0340	EA	2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K)	45.10
For Removal Of Multiple Lamps In A Fixture, Deduct			-3.60
26 01 50 51-0341	EA	2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K)	58.56
For Removal Of Multiple Lamps In A Fixture, Deduct			-3.60
26 01 50 51-0342	EA	3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K)	48.58
For Removal Of Multiple Lamps In A Fixture, Deduct			-3.82
26 01 50 51-0343	EA	4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K)	53.19
For Removal Of Multiple Lamps In A Fixture, Deduct			-4.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0344 EA 4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K)	58.24	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0345 EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN)	36.77	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0346 EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN)	35.41	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0347 EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF)	32.29	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.60	
26 01 50 51-0348 EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF)	32.87	
For Removal Of Multiple Lamps In A Fixture, Deduct	-3.82	
26 01 50 51-0349 EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF)	32.89	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0350 EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF)	34.08	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.05	
26 01 50 51-0351 Filament LED Lamps (26 01 50 51-0113)		
26 01 50 51-0352 EA 7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827)	20.54	
26 01 50 51-0353 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827/R)	20.54	
26 01 50 51-0354 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827)	19.66	
26 01 50 51-0355 EA 4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A)	19.66	
26 01 50 51-0356 EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827)	21.07	
26 01 50 51-0357 EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A)	21.07	
26 01 50 51-0358 EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827)	17.89	
26 01 50 51-0359 EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26)	17.89	
26 01 50 51-0360 EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A)	18.42	
26 01 50 51-0361 EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A)	22.31	
26 01 50 51-0362 EA 4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521)	24.62	
26 01 50 51-0363 Other Lamps (26 01 50 51-0113)		
26 01 50 51-0364 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1)	19.52	
26 01 50 51-0365 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM)	19.52	
26 01 50 51-0366 EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM)	19.52	
26 01 50 51-0367 EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1)	20.40	
26 01 50 51-0368 EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1)	20.40	
26 01 50 51-0369 EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1)	20.40	
26 01 50 51-0370 LED Lamps, Light Engines, Round, LER Series (26 01 50 51-0113)		
26 01 50 51-0371 EA 5.5" Diameter, 17 Watt, 3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730)	59.51	
26 01 50 51-0372 EA 9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U)	34.57	
26 01 50 51-0373 Remove Hazardous Lamps From Fixture For Recycling (26 01 50 51) Note: Excludes containers, shipping costs and recycling fees. See CSI section 26 01 50 51-0382 for recycling hazardous lamps.		
26 01 50 51-0374 EA Removal Of 2' Length Linear Fluorescent Lamps	4.77	
For Removal Of Multiple Lamps In A Fixture, Deduct	-1.57	
26 01 50 51-0375 EA Removal Of 3' Length Linear Fluorescent Lamps	5.45	
For Removal Of Multiple Lamps In A Fixture, Deduct	-1.80	
26 01 50 51-0376 EA Removal Of 4' Length Linear Fluorescent Lamps	6.13	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.02	
26 01 50 51-0377 EA Removal Of 6' Length Linear Fluorescent Lamps	6.81	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.25	
26 01 50 51-0378 EA Removal Of 8' Length Linear Fluorescent Lamps	7.49	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.47	
26 01 50 51-0379 EA Removal Of Compact Fluorescent Lamps	4.08	
For >25 To 40, Deduct	-0.41	
For >40, Deduct	-0.82	
26 01 50 51-0380 EA Removal Of U-Shaped Or Circular Fluorescent Lamps	6.48	
For >25 To 40, Deduct	-0.65	
For >40, Deduct	-1.30	
26 01 50 51-0381 EA Removal Of High Intensity Discharge (HID) Or Metal Halide Lamps	11.58	
For >25 To 40, Deduct	-1.16	
For >40, Deduct	-2.32	
26 01 50 51-0382 Recycle Hazardous Lamps (26 01 50 51) Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 26 01 50 51-0001 for removal of lamps from fixtures.		
26 01 50 51-0383 EA Recycle 2' Length Linear Fluorescent Lamps	1.83	
26 01 50 51-0384 EA Recycle 3' Length Linear Fluorescent Lamps	2.35	
26 01 50 51-0385 EA Recycle 4' Length Linear Fluorescent Lamps	2.86	
26 01 50 51-0386 EA Recycle 6' Length Linear Fluorescent Lamps	4.05	
26 01 50 51-0387 EA Recycle 8' Length Linear Fluorescent Lamps	5.07	
26 01 50 51-0388 EA Recycle Compact Fluorescent Lamps	4.67	
26 01 50 51-0389 EA Recycle U-Shaped Or Circular Fluorescent Lamps	4.67	
26 01 50 51-0390 EA Recycle High Intensity Discharge (HID) Lamps	7.38	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**26 01 50 52 Ballasts Replacement** (26 01 50)

26 01 50 52-0001	High Intensity Discharge (HID) Ballasts	(26 01 50 52)		
26 01 50 52-0002	Magnetic High Intensity Discharge (HID) Ballasts	(26 01 50 52-0001)		
26 01 50 52-0003	Core And Coil High Intensity Discharge (HID) Ballasts	(26 01 50 52-0002)		
26 01 50 52-0004	Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts	(26 01 50 52-0003)		
26 01 50 52-0005	EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	263.59	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0006	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	270.57	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0007	EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	270.57	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0008	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	250.69	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0009	EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	250.69	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0010	EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	383.90	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0011	EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	383.90	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0012	EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	501.23	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0013	EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	561.08	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		

26 01 50 52-0014 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)

26 01 50 52-0015	EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	236.00	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0016	EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	251.61	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0017	EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	244.87	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0018	EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	291.79	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0019	EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	285.08	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0020	EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	328.62	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0021	EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	328.62	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0022	EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	401.04	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0023	EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	401.04	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0024	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	655.14	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0025	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	655.14	34.06	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		

26 01 50 52-0026 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)

26 01 50 52-0027	EA Single Mounting Bracket For Core And Coil Type	19.95		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.09		
26 01 50 52-0028	EA Double Mounting Bracket For Core And Coil Type	33.12		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13		

26 01 50 52-0029 F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)

26 01 50 52-0031	EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	340.48	34.06	
	For Pulse Start Ballast, Add	29.28		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0032	EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	359.85	34.06	
	For Pulse Start Ballast, Add	31.22		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0033	EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	325.82	34.06	
	For Pulse Start Ballast, Add	27.81		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0034	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	381.74	34.06	
	For Pulse Start Ballast, Add	33.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		
26 01 50 52-0035	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	538.46	34.06	
	For Pulse Start Ballast, Add	49.08		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31		



Electrical			26
Operation and Maintenance of Electrical Systems			26 01
Operation and Maintenance of Lighting			26 01 50

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0036 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0029)		
26 01 50 52-0037 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	413.87	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0038 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	444.06	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0039 Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0040 Metal Halide, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0039)		
26 01 50 52-0041 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	703.28	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0042 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0039)		
26 01 50 52-0043 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	1,095.21	33.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.26	
26 01 50 52-0044 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	1,223.90	33.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.26	
26 01 50 52-0045 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	1,179.38	33.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.26	
26 01 50 52-0046 Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0047 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0048 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	870.92	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0049 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	991.43	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0050 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,316.42	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0051 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,309.42	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0052 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,842.05	36.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.12	
26 01 50 52-0053 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,842.05	36.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.12	
26 01 50 52-0054 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,261.61	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0055 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,488.11	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0056 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0057 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,643.85	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0058 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,564.03	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0059 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	2,016.61	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0060 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	2,016.61	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0061 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0062 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0063 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	981.35	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0064 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,061.78	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0065 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,053.86	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0066 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,107.74	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0067 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,771.79	36.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.12	
26 01 50 52-0068 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	2,183.26	36.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.12	
26 01 50 52-0069 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,653.21	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0070 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,503.18	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0071 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0072 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,273.20	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0073 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,374.65	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0074 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	2,063.44	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0075 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,772.42	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0076 Electronic High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)		
26 01 50 52-0077 Electronic Low Frequency High Intensity Discharge (HID) Ballasts (26 01 50 52-0076)		
26 01 50 52-0078 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	379.05	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0079 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	379.05	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0080 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	429.91	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0081 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,142.43	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0082 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,142.43	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0083 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,142.43	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0084 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,142.43	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0085 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	1,142.43	34.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0086 Owner Supplied Ballasts (26 01 50 52)		
26 01 50 52-0087 EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	27.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.18	
26 01 50 52-0088 EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	34.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.22	
26 01 50 52-0089 EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	39.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.85	
26 01 50 52-0090 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	42.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.67	
26 01 50 52-0091 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	47.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.31	
26 01 50 52-0092 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	50.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.12	
26 01 50 53 Lens and Accessory Replacement (26 01 50)		
26 01 50 53-0001 Lens and Accessory Replacement (26 01 50 53)		
26 01 50 53-0002 EA Removal And Replacement Of Parabolic Aluminum Louver.....	89.97	
26 01 50 53-0003 EA Removal And Replacement Of Visor For Fixtures.....	204.40	
26 01 50 53-0004 EA Removal And Replacement Of Globe On Pole.....	226.11	
26 01 50 53-0005 EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	97.58	
26 01 50 53-0006 EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	33.87	
26 01 50 53-0007 EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	34.95	
26 01 50 53-0008 EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	39.63	
26 01 50 53-0009 EA Removal And Replacement Of Slide-On Lampholder.....	15.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 01 50 53-0010 EA Removal And Replacement Of Screw Mount Lampholder.....	15.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 01 50 53-0011 EA Removal And Replacement Of Medium Bi-Pin Lampholder.....	16.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 01 50 53-0012 EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	19.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 01 50 53-0013 EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	20.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 01 50 53-0014 EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in.....	16.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 01 50 53-0015 EA Removal And Replacement Of Exterior Light Globes.....	59.68	

26 05 Common Work Results for Electrical (26)**26 05 13 Medium-Voltage Cables** (26 05)**26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables** (26 05 13)



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0001	Wire And Cable ^(26 05 13 16) Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.		
26 05 13 16-0002	5 KV Cable ^(26 05 13 16-0001)		
26 05 13 16-0003	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct ^(26 05 13 16-0002)		
26 05 13 16-0004	MLF #6 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,298.86	1,062.26
26 05 13 16-0005	MLF #4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,121.27	1,159.89
26 05 13 16-0006	MLF #2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,136.95	1,310.49
26 05 13 16-0007	MLF 1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,992.64	1,614.57
26 05 13 16-0008	MLF 2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,110.37	1,818.16
26 05 13 16-0009	MLF 3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,253.76	2,018.10
26 05 13 16-0010	MLF 4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,668.61	2,267.55
26 05 13 16-0011	MLF 250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,095.85	2,522.75
26 05 13 16-0012	MLF 350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,573.39	3,012.10
26 05 13 16-0013	MLF 500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,242.17	3,540.65
26 05 13 16-0014	MLF 750 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	33,512.77	4,173.04
26 05 13 16-0015	MLF 1,000 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	44,790.01	4,805.13
26 05 13 16-0016	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial ^(26 05 13 16-0002) Note: Excludes excavation.		
26 05 13 16-0017	MLF #6 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,166.09	
26 05 13 16-0018	MLF #4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,744.33	
26 05 13 16-0019	MLF #2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,383.43	
26 05 13 16-0020	MLF 1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,728.50	
26 05 13 16-0021	MLF 2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,337.17	
26 05 13 16-0022	MLF 3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,229.56	
26 05 13 16-0023	MLF 4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,020.83	
26 05 13 16-0024	MLF 250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,065.35	
26 05 13 16-0025	MLF 350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,452.01	
26 05 13 16-0026	MLF 500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,918.84	
26 05 13 16-0027	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) ^(26 05 13 16-0002)		
26 05 13 16-0028	MLF #6 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,405.49	666.63
26 05 13 16-0029	MLF #4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,111.27	714.76
26 05 13 16-0030	MLF #2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,250.01	903.89
26 05 13 16-0031	MLF 1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,856.90	1,097.29
26 05 13 16-0032	MLF 2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,970.01	1,288.12
26 05 13 16-0033	MLF 3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,102.52	1,473.10
26 05 13 16-0034	MLF 4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,517.85	1,709.22
26 05 13 16-0035	MLF 250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,473.32	2,150.30
26 05 13 16-0036	MLF 350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,235.21	2,720.80
26 05 13 16-0037	MLF 500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,427.03	3,418.43

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)		
26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,399.78	2,116.95
26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,913.52	2,147.37
26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,427.27	2,177.79
26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,958.12	2,225.93
26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,606.08	2,310.84
26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,484.13	2,421.79
26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	34,950.86	3,027.23
26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	40,211.82	4,036.37
26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)		
26 05 13 16-0048 MLF #6 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,594.67	1,062.26
26 05 13 16-0049 MLF #4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,521.17	1,159.89
26 05 13 16-0050 MLF #2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,651.88	1,310.49
26 05 13 16-0051 MLF #1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,678.12	1,462.46
26 05 13 16-0052 MLF 1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,704.77	1,614.57
26 05 13 16-0053 MLF 2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,932.07	1,818.16
26 05 13 16-0054 MLF 3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,371.27	2,018.10
26 05 13 16-0055 MLF 4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,928.54	2,267.55
26 05 13 16-0056 MLF 250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,677.89	2,522.75
26 05 13 16-0057 MLF 350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,381.12	3,012.10
26 05 13 16-0058 MLF 500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	24,652.48	3,540.65
26 05 13 16-0059 MLF 750 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	37,667.88	4,173.04
26 05 13 16-0060 MLF 1,000 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	50,689.90	4,805.13
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,461.90	
26 05 13 16-0063 MLF #4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,144.22	
26 05 13 16-0064 MLF #2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,898.36	
26 05 13 16-0065 MLF #1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,670.08	
26 05 13 16-0066 MLF 1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,440.64	
26 05 13 16-0067 MLF 2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,158.87	
26 05 13 16-0068 MLF 3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,347.07	
26 05 13 16-0069 MLF 4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,280.76	
26 05 13 16-0070 MLF 250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,647.39	
26 05 13 16-0071 MLF 350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	15,259.74	
26 05 13 16-0072 MLF 500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	19,329.15	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0074 MLF #6 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,701.30	666.63
26 05 13 16-0075 MLF #4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,511.17	714.76
26 05 13 16-0076 MLF #2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,764.94	903.89
26 05 13 16-0077 MLF #1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,665.19	999.87



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0078	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,569.03	1,097.29
26 05 13 16-0079	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,791.71	1,288.12
26 05 13 16-0080	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,220.03	1,473.10
26 05 13 16-0081	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,777.78	1,709.22
26 05 13 16-0082	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,055.36	2,150.30
26 05 13 16-0083	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	19,042.94	2,720.80
26 05 13 16-0084	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	24,837.34	3,418.43
26 05 13 16-0085		15 KV Cable (26 05 13 16-0001)		
26 05 13 16-0086		Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0087		Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0086)		
26 05 13 16-0088	MLF	#4 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,551.63	2,116.95
26 05 13 16-0089	MLF	#2 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,418.09	2,116.95
26 05 13 16-0090	MLF	#1 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,748.59	2,116.95
26 05 13 16-0091	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,825.24	2,116.95
26 05 13 16-0092	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,847.14	2,116.95
26 05 13 16-0093	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	14,794.26	2,209.73
26 05 13 16-0094	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	15,195.72	2,209.73
26 05 13 16-0095	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	17,638.53	2,310.84
26 05 13 16-0096	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	20,127.96	2,365.03
26 05 13 16-0097	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	24,944.67	2,663.97
26 05 13 16-0098		Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0096) Note: Excludes excavation.		
26 05 13 16-0099	MLF	#1 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,471.40	
26 05 13 16-0100	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,548.04	
26 05 13 16-0101	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,569.94	
26 05 13 16-0102	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,546.34	
26 05 13 16-0103	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,947.79	
26 05 13 16-0104	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	15,515.53	
26 05 13 16-0105	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	18,008.91	
26 05 13 16-0106	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	22,522.89	
26 05 13 16-0107		Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0098)		
26 05 13 16-0108	MLF	#1 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,973.52	952.31
26 05 13 16-0109	MLF	1/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,433.45	1,097.29
26 05 13 16-0110	MLF	2/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,959.80	1,288.12
26 05 13 16-0111	MLF	3/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,164.26	1,473.10
26 05 13 16-0112	MLF	4/0 AWG, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,189.77	1,709.22
26 05 13 16-0113	MLF	250 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	17,121.37	1,989.75
26 05 13 16-0114	MLF	350 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	20,344.43	2,318.56

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0115	MLF	500 MCM, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	25,404.35	2,693.24
26 05 13 16-0116		Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0117		Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0116)		
26 05 13 16-0118	MLF	#4 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,318.30	2,116.95
26 05 13 16-0119	MLF	#2 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,340.72	2,116.95
26 05 13 16-0120	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,730.71	2,116.95
26 05 13 16-0121	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	13,001.15	2,116.95
26 05 13 16-0122	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	14,206.99	2,116.95
26 05 13 16-0123	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,462.88	2,209.73
26 05 13 16-0124	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,936.61	2,209.73
26 05 13 16-0125	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	19,773.58	2,310.84
26 05 13 16-0126	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	22,686.73	2,365.03
26 05 13 16-0127	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	28,235.92	2,663.97
26 05 13 16-0128		Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0116) Note: Excludes excavation.		
26 05 13 16-0129	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,453.52	
26 05 13 16-0130	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,723.96	
26 05 13 16-0131	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,929.80	
26 05 13 16-0132	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,214.96	
26 05 13 16-0133	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,688.67	
26 05 13 16-0134	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	17,644.36	
26 05 13 16-0135	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	20,558.19	
26 05 13 16-0136	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	25,814.15	
26 05 13 16-0137		Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138	MLF	#1 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,955.64	952.31
26 05 13 16-0139	MLF	1/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,609.37	1,097.29
26 05 13 16-0140	MLF	2/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,319.66	1,288.12
26 05 13 16-0141	MLF	3/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,832.88	1,473.10
26 05 13 16-0142	MLF	4/0 AWG, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	15,930.65	1,709.22
26 05 13 16-0143	MLF	250 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	19,256.42	1,989.75
26 05 13 16-0144	MLF	350 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	22,903.20	2,318.56
26 05 13 16-0145	MLF	500 MCM, Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	28,695.61	2,693.24
26 05 13 16-0146		15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147	MLF	1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	14,177.27	2,124.37
26 05 13 16-0148	MLF	2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	12,087.62	2,175.14
26 05 13 16-0149	MLF	3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	18,700.09	2,225.93
26 05 13 16-0150	MLF	350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	26,055.78	2,374.26
26 05 13 16-0151		Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085) Note: Laid in cable tray or hung in vertical cable shaft.		



Electrical		26
Common Work Results for Electrical		26 05
Medium-Voltage Cables		26 05 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0152 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153 LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	64.22	16.19
26 05 13 16-0154 LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	77.80	17.25
26 05 13 16-0155 Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156 LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	64.22	16.19
26 05 13 16-0157 LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	77.80	17.25
26 05 13 16-0158 Underground Residential Distribution (URD), 15 KV Primary Concentric UD Cable (26 05 13 16-0085)		
Note: 0.175" cross-linked polyethylene (XLPE) insulation, copper conductor.		
26 05 13 16-0159 MLF #4 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,721.31	1,062.26
26 05 13 16-0160 MLF #2 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,692.36	1,159.89
26 05 13 16-0161 MLF #1 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	6,872.32	1,310.49
26 05 13 16-0162 MLF 1/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	8,998.90	1,610.19
26 05 13 16-0163 MLF 2/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	10,270.23	1,812.71
26 05 13 16-0164 MLF 3/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	12,849.67	2,018.10
26 05 13 16-0165 MLF 4/0 AWG, Underground Residential Distribution (URD), Cross-Linked Polyethylene (XLPE) Insulation, 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	14,446.76	2,259.07
26 05 13 16-0166 15 KV, Underground Residential Distribution (URD), Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167 MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial	25,047.22	
26 05 13 16-0168 Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169 Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170 Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	557.54	135.48
26 05 13 16-0172 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	847.49	135.48
26 05 13 16-0173 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	847.49	135.48
26 05 13 16-0174 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	887.81	162.57
26 05 13 16-0175 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	887.81	162.57
26 05 13 16-0176 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	887.81	162.57
26 05 13 16-0177 EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	941.57	189.67
26 05 13 16-0178 EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	941.57	189.67
26 05 13 16-0179 EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	941.57	189.67
26 05 13 16-0180 Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181 EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	938.02	162.57
26 05 13 16-0182 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	1,078.22	189.67
26 05 13 16-0183 Cable Termination With Stress Cone (26 05 13 16-0169)		
26 05 13 16-0184 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	3,136.99	325.14
26 05 13 16-0185 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	4,294.66	447.08
26 05 13 16-0186 Connect To Pothead, Pothead Included (26 05 13 16-0169)		
26 05 13 16-0187 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	3,312.12	325.14
26 05 13 16-0188 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	4,319.30	372.57
26 05 13 16-0189 Two Conductor Pothead (26 05 13 16-0169)		
Note: Includes 5 KV pothead.		
26 05 13 16-0190 EA #6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,958.18	447.08
26 05 13 16-0191 EA 250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	2,711.47	569.01
26 05 13 16-0192 EA 400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	4,609.05	645.14
26 05 13 16-0193 EA 750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	8,142.87	752.71
26 05 13 16-0194 EA 1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	15,533.08	1,128.94
26 05 13 16-0195 Three Conductor Pothead (26 05 13 16-0169)		
Note: Includes 5 KV pothead.		
26 05 13 16-0196 EA #6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	10,533.27	650.29
26 05 13 16-0197 EA 250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	11,432.94	758.67

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 13 16-0198		Copper Cable Splice, Crimp Compression Connection (26 05 13 16-0169)	
		Note: For bare wire.	
26 05 13 16-0199	EA	#6 AWG Crimp Compression Connection For Bare Copper Wire.....	95.17
26 05 13 16-0200	EA	#4 AWG Crimp Compression Connection For Bare Copper Wire.....	106.54
26 05 13 16-0201	EA	#3 AWG Crimp Compression Connection For Bare Copper Wire.....	124.13
26 05 13 16-0202	EA	#2 AWG Crimp Compression Connection For Bare Copper Wire.....	139.26
26 05 13 16-0203	EA	#1 AWG Crimp Compression Connection For Bare Copper Wire.....	157.85
26 05 13 16-0204	EA	1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	175.08
26 05 13 16-0205	EA	2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	191.74
26 05 13 16-0206	EA	3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	210.73
26 05 13 16-0207	EA	4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	228.32
26 05 13 16-0208	EA	250 MCM Crimp Compression Connection For Bare Copper Wire.....	246.97
26 05 13 16-0209	EA	300 MCM Crimp Compression Connection For Bare Copper Wire.....	266.96
26 05 13 16-0210	EA	350 MCM Crimp Compression Connection For Bare Copper Wire.....	283.73
26 05 13 16-0211	EA	400 MCM Crimp Compression Connection For Bare Copper Wire.....	322.88
26 05 13 16-0212	EA	500 MCM Crimp Compression Connection For Bare Copper Wire.....	365.25
26 05 13 16-0213		Aluminum Cable Splice, Crimp Compression Connection (26 05 13 16-0169)	
		Note: For bare wire.	
26 05 13 16-0214	EA	#6 AWG Crimp Compression Connection For Bare Aluminum Wire	101.42
26 05 13 16-0215	EA	#4 AWG Crimp Compression Connection For Bare Aluminum Wire	109.99
26 05 13 16-0216	EA	#2 AWG Crimp Compression Connection For Bare Aluminum Wire	150.66
26 05 13 16-0217	EA	#1 AWG Crimp Compression Connection For Bare Aluminum Wire	186.84
26 05 13 16-0218	EA	1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	202.43
26 05 13 16-0219	EA	2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	217.87
26 05 13 16-0220	EA	3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	241.06
26 05 13 16-0221	EA	4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	260.41
26 05 13 16-0222	EA	250 MCM Crimp Compression Connection For Bare Aluminum Wire	278.29
26 05 13 16-0223	EA	300 MCM Crimp Compression Connection For Bare Aluminum Wire	297.58
26 05 13 16-0224	EA	350 MCM Crimp Compression Connection For Bare Aluminum Wire	315.87
26 05 13 16-0225	EA	400 MCM Crimp Compression Connection For Bare Aluminum Wire	368.93
26 05 13 16-0226	EA	500 MCM Crimp Compression Connection For Bare Aluminum Wire	422.69
26 05 13 16-0227		15 KV (26 05 13 16-0168)	
26 05 13 16-0228		Single Conductor Pothead On Racks (26 05 13 16-0227)	
		Note: Includes pothead.	
26 05 13 16-0229	EA	#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks	2,345.60
26 05 13 16-0230	EA	250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks	3,023.87
26 05 13 16-0231		Two Conductor Pothead On Rack (26 05 13 16-0227)	
		Note: Includes pothead.	
26 05 13 16-0232	EA	#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks.....	3,377.75
26 05 13 16-0233	EA	250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	4,100.14
26 05 13 16-0234		Three Conductor Pothead On Rack (26 05 13 16-0227)	
		Note: Includes pothead.	
26 05 13 16-0235	EA	#2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks	4,269.95
26 05 13 16-0236	EA	250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks	5,309.22
26 05 13 16-0237		Stress Relief Cone On Rack (26 05 13 16-0227)	
26 05 13 16-0238	EA	#2 To 4/0 AWG Stress Relief Cone, On Rack	2,134.01
26 05 13 16-0239	EA	250 To 500 MCM Stress Relief Cone, On Rack	2,785.98
26 05 13 16-0240		Grounded, Shielded Cable Splice (26 05 13 16-0227)	
26 05 13 16-0241	EA	#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	1,405.20
26 05 13 16-0242	EA	250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	1,792.36
26 05 13 16-0243	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way ...	10,974.53
26 05 13 16-0244	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE	
		3-Way	14,701.78
26 05 13 16-0245		Cable Termination (26 05 13 16-0227)	
26 05 13 16-0246	EA	#2 To 3/0 AWG Cable Termination 15 KV	1,020.32
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.25
26 05 13 16-0247	EA	4/0 To 250 MCM Cable Termination 15 KV	1,277.86
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.90
26 05 13 16-0248	EA	350 To 500 MCM Cable Termination 15 KV	1,595.54
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.54
26 05 13 16-0249	EA	#2 To 3/0 AWG Cable Elbow Termination 15 KV	682.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.29
26 05 13 16-0250		Stress Cones, 5-15 KV, 4 Skirted (26 05 13 16-0227)	
26 05 13 16-0251	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	1,570.43



Electrical		26
Common Work Results for Electrical		26 05
Medium-Voltage Cables		26 05 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	1,802.03	194.66
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	2,178.62	213.02
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	2,862.64	245.43
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted (26 05 13 16-0227)		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	3,140.90	352.84
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	3,604.60	389.30
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	4,341.40	418.14
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	5,725.26	490.87
26 05 13 16-0260 35 KV (26 05 13 16-0168)		
26 05 13 16-0261 35 KV One Conductor Splice (26 05 13 16-0260)		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing.....	3,533.40	
26 05 13 16-0263 Cable Termination (26 05 13 16-0260)		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV.....	984.45	162.71
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	1,297.27	245.49
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV.....	1,551.39	262.56
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV.....	768.11	135.48
26 05 13 16-0268 70 KV (26 05 13 16-0168)		
26 05 13 16-0269 Cable Splice (26 05 13 16-0268)		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing.....	27,275.36	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing.....	3,747.45	
26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)		
26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)		
26 05 19 16-0001 Cable Installation Methods (26 05 19 16)		
26 05 19 16-0002 Pull Cord (26 05 19 16-0001)		
Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.43	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits.....	0.22	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit.....	0.73	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.46	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand.....	3.70	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand.....	4.71	
26 05 19 16-0010 EA Minimum Set-up Charge For Boring.....	518.57	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
26 05 19 16-0011 Wire and Cable (26 05 19 16)		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, tagging and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0058 for various conduit types.		
26 05 19 16-0012 600 Volt Wire (26 05 19 16-0011)		
26 05 19 16-0013 Single Solid Conductor, Copper (26 05 19 16-0012)		
26 05 19 16-0014 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	759.11	300.46
26 05 19 16-0015 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	953.23	353.44
26 05 19 16-0016 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,184.35	432.18
26 05 19 16-0017 MLF #14 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	983.07	300.46
26 05 19 16-0018 MLF #12 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,191.76	353.44
26 05 19 16-0019 MLF #10 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,435.36	432.18
26 05 19 16-0020 Power Cable, Stranded Conductor, Copper (26 05 19 16-0012)		
26 05 19 16-0021 Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Single Stranded Conductor, Power Cable (26 05 19 16-0020)		
26 05 19 16-0022 MLF #16 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	811.70	247.60

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0023	MLF	#14 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	955.86	297.12
26 05 19 16-0024	MLF	#12 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	1,186.04	346.64
26 05 19 16-0025	MLF	#10 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	1,474.28	396.16
26 05 19 16-0026	MLF	#8 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit	1,981.20	495.20
26 05 19 16-0027	MLF	#6 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,714.37	594.24
26 05 19 16-0028	MLF	#4 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,751.86	742.80
26 05 19 16-0029	MLF	#3 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,457.83	841.84
26 05 19 16-0030	MLF	#2 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,306.75	940.89
26 05 19 16-0031	MLF	#1 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,642.75	1,039.92
26 05 19 16-0032	MLF	1/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	7,999.84	1,188.48
26 05 19 16-0033	MLF	2/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	9,627.07	1,337.05
26 05 19 16-0034	MLF	3/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	11,581.47	1,485.60
26 05 19 16-0035	MLF	4/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	13,952.70	1,634.16
26 05 19 16-0036	MLF	250 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	14,760.72	1,782.72
26 05 19 16-0037	MLF	300 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	17,595.11	1,931.28
26 05 19 16-0038	MLF	350 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	18,760.03	2,079.85
26 05 19 16-0039	MLF	400 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	21,034.08	2,228.40
26 05 19 16-0040	MLF	500 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	24,459.64	2,376.96
26 05 19 16-0041	MLF	600 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	28,251.32	2,575.04
26 05 19 16-0042	MLF	750 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	43,473.18	2,872.17
26 05 19 16-0043	MLF	1,000 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit	61,666.26	3,367.36
26 05 19 16-0044 Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Multi Stranded Conductor, Power Cable (26 05 19 16-0020)				
26 05 19 16-0045	MLF	2 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	1,911.73	594.11
26 05 19 16-0046	MLF	3 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,372.41	693.40
26 05 19 16-0047	MLF	4 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,957.00	841.84
26 05 19 16-0048	MLF	6 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,567.71	915.75
26 05 19 16-0049	MLF	7 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,905.31	965.52
26 05 19 16-0050	MLF	9 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,578.60	1,064.44
26 05 19 16-0051	MLF	10 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,986.66	1,109.50
26 05 19 16-0052	MLF	12 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,589.95	1,213.24
26 05 19 16-0053	MLF	14 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	6,202.27	1,287.77
26 05 19 16-0054	MLF	24 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	9,199.31	1,634.29
26 05 19 16-0055	MLF	37 Conductors, #14 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	13,949.74	2,426.48
26 05 19 16-0056	MLF	2 Conductors, #12 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,372.39	693.40
26 05 19 16-0057	MLF	3 Conductors, #12 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,063.07	841.84
26 05 19 16-0058	MLF	4 Conductors, #12 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,753.78	990.40
26 05 19 16-0059	MLF	2 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,195.20	890.99
26 05 19 16-0060	MLF	3 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,172.89	1,088.45
26 05 19 16-0061	MLF	4 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,402.50	1,386.81
26 05 19 16-0062	MLF	6 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	7,361.59	1,783.34
26 05 19 16-0063	MLF	9 Conductors, #10 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	10,049.94	2,278.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0064 MLF 2 Conductors, #8 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,024.29	1,015.16
26 05 19 16-0065 MLF 3 Conductors, #8 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,200.78	1,188.48
26 05 19 16-0066 MLF 4 Conductors, #8 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,748.69	1,510.37
26 05 19 16-0067 MLF 2 Conductors, #6 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,305.07	1,138.96
26 05 19 16-0068 MLF 3 Conductors, #6 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,214.62	1,411.32
26 05 19 16-0069 MLF 4 Conductors, #6 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,266.68	1,740.63
26 05 19 16-0070 MLF 2 Conductors, #4 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,244.26	1,381.86
26 05 19 16-0071 MLF 3 Conductors, #4 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,636.00	1,580.56
26 05 19 16-0072 MLF 4 Conductors, #4 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,510.28	1,972.38
26 05 19 16-0073 MLF 2 Conductors, #2 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,117.02	1,683.19
26 05 19 16-0074 MLF 3 Conductors, #2 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,569.23	1,882.25
26 05 19 16-0075 MLF 4 Conductors, #2 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	18,008.15	2,476.01
26 05 19 16-0076 MLF 3 Conductors, #1 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	18,070.23	2,376.59
26 05 19 16-0077 MLF 4 Conductors, #1 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,596.61	2,969.96
26 05 19 16-0078 MLF 3 Conductors, 1/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,524.66	2,575.54
26 05 19 16-0079 MLF 3 Conductors, 2/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	26,278.23	2,969.96
26 05 19 16-0080 MLF 3 Conductors, 3/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	32,264.63	3,464.92
26 05 19 16-0081 MLF 4 Conductors, 3/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	42,607.02	4,454.95
26 05 19 16-0082 MLF 3 Conductors, 4/0 AWG, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	39,514.38	3,964.95
26 05 19 16-0083 MLF 3 Conductors, 250 MCM, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	42,048.93	4,454.95
26 05 19 16-0084 MLF 3 Conductors, 350 MCM, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	53,061.20	4,952.00
26 05 19 16-0085 MLF 3 Conductors, 500 MCM, 600 Volt, Cross-linked High Heat-Resistant Water-Resistant (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	69,157.95	5,442.51
26 05 19 16-0086 Undergound Feeder And Branch Circuit Suitable, Single Stranded Copper (26 05 19 16-0072) Note: Direct bury.		
26 05 19 16-0087 MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,109.92	
26 05 19 16-0088 MLF #12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,306.67	
26 05 19 16-0089 MLF #10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,643.09	
26 05 19 16-0090 MLF #8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,165.28	
26 05 19 16-0091 MLF #6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,043.66	
26 05 19 16-0092 MLF #4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,014.53	
26 05 19 16-0093 MLF #2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,819.53	
26 05 19 16-0094 MLF #1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,254.28	
26 05 19 16-0095 MLF 1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,908.05	
26 05 19 16-0096 MLF 2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,805.36	
26 05 19 16-0097 MLF 3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,039.66	
26 05 19 16-0098 MLF 4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,735.20	
26 05 19 16-0099 MLF 250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,955.52	
26 05 19 16-0100 MLF 300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,124.44	
26 05 19 16-0101 MLF 350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,390.73	
26 05 19 16-0102 MLF 400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,044.29	
26 05 19 16-0103 MLF 500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	28,506.74	
26 05 19 16-0104 MLF 600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	33,688.01	
26 05 19 16-0105 MLF 750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	53,685.19	
26 05 19 16-0106 MLF #14 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	947.23	
26 05 19 16-0107 MLF #12 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,140.23	
26 05 19 16-0108 MLF #10 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,374.28	
26 05 19 16-0109 MLF #8 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,681.26	
26 05 19 16-0110 MLF #6 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,182.85	
26 05 19 16-0111 MLF #4 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,925.45	
26 05 19 16-0112 MLF #2 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,004.34	
26 05 19 16-0113 MLF #1 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,772.99	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0114	MLF	1/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,397.38	
26 05 19 16-0115	MLF	2/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,084.36	
26 05 19 16-0116	MLF	3/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,103.08	
26 05 19 16-0117	MLF	4/0 AWG, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,349.57	
26 05 19 16-0118	MLF	250 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,504.77	
26 05 19 16-0119	MLF	300 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,727.16	
26 05 19 16-0120	MLF	350 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,060.03	
26 05 19 16-0121	MLF	400 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,440.95	
26 05 19 16-0122	MLF	500 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,759.35	
26 05 19 16-0123	MLF	750 MCM, Cross-linked High Heat-Resistant Water-Resistant (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	26,883.69	
26 05 19 16-0124	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	792.31	
26 05 19 16-0125	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	990.76	
26 05 19 16-0126	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,239.09	
26 05 19 16-0127	MLF	#8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,762.60	
26 05 19 16-0128	MLF	#6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,433.85	
26 05 19 16-0129	MLF	#4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,261.62	
26 05 19 16-0130	MLF	#2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,704.73	
26 05 19 16-0131	MLF	#1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,640.42	
26 05 19 16-0132	MLF	1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,564.79	
26 05 19 16-0133	MLF	2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,478.83	
26 05 19 16-0134	MLF	3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,945.00	
26 05 19 16-0135	MLF	4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,716.08	
26 05 19 16-0136	MLF	250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,639.28	
26 05 19 16-0137	MLF	300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,646.73	
26 05 19 16-0138	MLF	350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,811.00	
26 05 19 16-0139	MLF	400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	18,896.17	
26 05 19 16-0140	MLF	500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,573.58	
26 05 19 16-0141	MLF	600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	27,250.19	
26 05 19 16-0142	MLF	750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	43,741.40	
26 05 19 16-0143	MLF	#2 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,290.16	
26 05 19 16-0144	MLF	1/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,559.92	
26 05 19 16-0145	MLF	2/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,714.39	
26 05 19 16-0146	MLF	3/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,324.72	
26 05 19 16-0147	MLF	4/0 AWG, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,818.67	
26 05 19 16-0148	MLF	250 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,957.15	
26 05 19 16-0149	MLF	350 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	23,154.75	
26 05 19 16-0150	MLF	400 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,191.13	
26 05 19 16-0151	MLF	500 MCM, Type Ethylene-Propylene Rubber (EPR) Insulation, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	28,825.10	
26 05 19 16-0152		600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0012)		
26 05 19 16-0153		ACTHH, Solid (26 05 19 16-0152)		
26 05 19 16-0154	MLF	1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	2,929.25	812.86
26 05 19 16-0155	MLF	1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,379.62	921.25
26 05 19 16-0156	MLF	1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	3,873.06	975.44
26 05 19 16-0157	MLF	2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,210.70	1,354.78
26 05 19 16-0158	MLF	2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,506.52	1,517.08
26 05 19 16-0159	MLF	2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	5,723.47	1,680.88
26 05 19 16-0160	MLF	2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	7,507.26	1,843.18
26 05 19 16-0161	MLF	3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,100.66	1,517.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0162 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,336.75	1,680.88
26 05 19 16-0163 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,843.11	1,897.50
26 05 19 16-0164 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,919.59	2,058.99
26 05 19 16-0165 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,091.71	1,680.88
26 05 19 16-0166 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,671.05	1,897.50
26 05 19 16-0167 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	8,511.14	2,113.59
26 05 19 16-0168 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	11,075.34	2,276.97
26 05 19 16-0169 ACTHH, Stranded (26 05 19 16-0152)		
26 05 19 16-0170 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	7,779.49	1,952.10
26 05 19 16-0171 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	9,501.30	2,220.89
26 05 19 16-0172 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	9,191.37	2,167.64
26 05 19 16-0173 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	11,553.80	2,436.70
26 05 19 16-0174 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	14,656.80	2,709.56
26 05 19 16-0175 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	16,864.11	2,977.53
26 05 19 16-0176 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	19,340.23	3,248.89
26 05 19 16-0177 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	11,883.84	2,600.35
26 05 19 16-0178 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	14,415.03	2,870.23
26 05 19 16-0179 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	18,597.98	3,143.35
26 05 19 16-0180 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	20,384.98	3,412.54
26 05 19 16-0181 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	24,222.76	3,681.47
26 05 19 16-0182 HCFC, Solid (26 05 19 16-0152)		
26 05 19 16-0183 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,728.12	1,354.78
26 05 19 16-0184 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,173.09	1,522.23
26 05 19 16-0185 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	5,785.04	1,672.61
26 05 19 16-0186 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,743.29	1,522.23
26 05 19 16-0187 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,158.15	1,672.61
26 05 19 16-0188 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	8,081.37	1,908.20
26 05 19 16-0189 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	7,076.00	1,672.61
26 05 19 16-0190 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	7,723.43	1,908.20
26 05 19 16-0191 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	10,606.29	2,116.84
26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0152)		
26 05 19 16-0193 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,633.72	1,354.78
26 05 19 16-0194 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,161.56	1,522.23
26 05 19 16-0195 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,448.87	1,672.61
26 05 19 16-0196 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,793.72	1,787.36
26 05 19 16-0197 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,462.89	1,894.79
26 05 19 16-0198 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,418.04	1,522.23
26 05 19 16-0199 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,182.89	1,672.61
26 05 19 16-0200 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,194.80	1,908.20
26 05 19 16-0201 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,304.71	2,058.99
26 05 19 16-0202 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	13,511.74	2,220.89
26 05 19 16-0203 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	17,286.93	2,385.22
26 05 19 16-0204 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	25,087.46	2,546.57
26 05 19 16-0205 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,425.60	1,672.61
26 05 19 16-0206 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	7,373.60	1,908.20
26 05 19 16-0207 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	12,341.55	2,116.84
26 05 19 16-0208 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	17,584.76	2,331.84
26 05 19 16-0209 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	22,048.88	2,494.96
26 05 19 16-0210 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	30,094.58	2,656.45
26 05 19 16-0211 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	39,846.95	2,816.59
26 05 19 16-0212 FPLP Solid TFN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0213 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	4,370.44	1,029.63
26 05 19 16-0214 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	4,958.87	1,192.21
26 05 19 16-0215 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	6,169.79	1,354.78
26 05 19 16-0216 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	7,083.46	1,517.35
26 05 19 16-0217 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	4,970.72	1,192.21
26 05 19 16-0218 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	5,885.48	1,354.78
26 05 19 16-0219 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	7,424.85	1,517.35
26 05 19 16-0220 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	8,454.85	1,679.92
26 05 19 16-0221 FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0222 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable.....	5,516.08	1,354.78
26 05 19 16-0223 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable.....	6,879.91	1,517.35
26 05 19 16-0224 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable.....	9,216.25	1,679.92
26 05 19 16-0225 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable.....	10,705.02	1,842.50
26 05 19 16-0226 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable.....	6,994.07	1,517.35
26 05 19 16-0227 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable.....	8,590.54	1,679.92

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0228 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0229 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	4,758.14	1,029.63
26 05 19 16-0230 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	7,648.86	1,517.35
26 05 19 16-0231 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	5,865.66	1,192.21
26 05 19 16-0232 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable.....	6,938.74	1,354.78
26 05 19 16-0233 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	9,686.88	1,679.92
26 05 19 16-0234 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	6,868.51	1,408.97
26 05 19 16-0235 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	8,506.76	1,625.73
26 05 19 16-0236 Armored Cable Connectors (26 05 19 16-0152)		
26 05 19 16-0237 EA 3/4" Armored Cable Connector.....	8.23	2.97
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15' Above Floor, Add	0.74	
For Elevated Installation >15' To 20' Above Floor, Add	1.49	
For Elevated Installation >20' To 25' Above Floor, Add	1.86	
For Elevated Installation >25' To 30' Above Floor, Add	2.60	
For Elevated Installation >30' To 35' Above Floor, Add	2.97	
For Elevated Installation >35' To 40' Above Floor, Add	3.72	
For Elevated Installation >40' Above Floor, Add	4.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.23	
26 05 19 16-0238 EA 1" Armored Cable Connector.....	10.98	3.96
For Work In Restricted Working Space, Add	2.97	
For Elevated Installation >10' To 15' Above Floor, Add	0.99	
For Elevated Installation >15' To 20' Above Floor, Add	1.98	
For Elevated Installation >20' To 25' Above Floor, Add	2.48	
For Elevated Installation >25' To 30' Above Floor, Add	3.47	
For Elevated Installation >30' To 35' Above Floor, Add	3.96	
For Elevated Installation >35' To 40' Above Floor, Add	4.95	
For Elevated Installation >40' Above Floor, Add	5.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	
26 05 19 16-0239 EA 1-1/4" Armored Cable Connector.....	13.81	4.96
For Work In Restricted Working Space, Add	3.71	
For Elevated Installation >10' To 15' Above Floor, Add	1.24	
For Elevated Installation >15' To 20' Above Floor, Add	2.48	
For Elevated Installation >20' To 25' Above Floor, Add	3.10	
For Elevated Installation >25' To 30' Above Floor, Add	4.33	
For Elevated Installation >30' To 35' Above Floor, Add	4.95	
For Elevated Installation >35' To 40' Above Floor, Add	6.19	
For Elevated Installation >40' Above Floor, Add	6.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 19 16-0240 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)		
26 05 19 16-0241 MLF #12 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,042.99	300.58
26 05 19 16-0242 MLF #10 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,317.59	353.44
26 05 19 16-0243 MLF #8 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,899.20	480.72
26 05 19 16-0244 MLF #6 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,659.68	575.42
26 05 19 16-0245 MLF #4 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,609.63	670.88
26 05 19 16-0246 MLF #2 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,252.42	864.24
26 05 19 16-0247 MLF #1 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,333.07	961.56
26 05 19 16-0248 MLF 1/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,373.89	1,083.37
26 05 19 16-0249 MLF 2/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,428.36	1,201.86
26 05 19 16-0250 MLF 3/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,151.19	1,349.55
26 05 19 16-0251 MLF 4/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,217.11	1,488.82
26 05 19 16-0252 MLF 250 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,467.19	1,636.64
26 05 19 16-0253 MLF 300 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,819.27	1,788.92
26 05 19 16-0254 MLF 350 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	19,361.21	1,922.98
26 05 19 16-0255 MLF 400 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	21,807.39	2,136.67
26 05 19 16-0256 MLF 500 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	26,181.26	2,354.67
26 05 19 16-0257 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,088.30	198.46
For Ethylene-Propylene Rubber (EPR) Insulation, Add	51.83	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	120.93	
26 05 19 16-0258 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,218.80	219.75
For Ethylene-Propylene Rubber (EPR) Insulation, Add	52.83	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	123.27	
26 05 19 16-0259 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,504.60	274.72
For Ethylene-Propylene Rubber (EPR) Insulation, Add	77.13	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	179.97	
26 05 19 16-0260 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,083.35	437.02
For Ethylene-Propylene Rubber (EPR) Insulation, Add	126.80	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	295.87	
26 05 19 16-0261 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,906.11	524.42
For Ethylene-Propylene Rubber (EPR) Insulation, Add	213.08	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	497.18	
26 05 19 16-0262 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,006.06	608.84
For Ethylene-Propylene Rubber (EPR) Insulation, Add	322.36	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	752.17	
26 05 19 16-0263 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,574.40	696.87
For Ethylene-Propylene Rubber (EPR) Insulation, Add	370.47	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	864.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0264 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,842.57	784.89
For Ethylene-Propylene Rubber (EPR) Insulation, Add	523.55	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,221.63	
26 05 19 16-0265 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,315.85	874.15
For Ethylene-Propylene Rubber (EPR) Insulation, Add	707.41	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,650.62	
26 05 19 16-0266 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,861.22	986.19
For Ethylene-Propylene Rubber (EPR) Insulation, Add	883.50	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,061.51	
26 05 19 16-0267 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,746.49	1,093.65
For Ethylene-Propylene Rubber (EPR) Insulation, Add	1,110.58	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,591.36	
26 05 19 16-0268 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,966.08	1,220.92
For Ethylene-Propylene Rubber (EPR) Insulation, Add	1,387.81	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,238.22	
26 05 19 16-0269 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,651.23	1,357.47
For Ethylene-Propylene Rubber (EPR) Insulation, Add	1,584.87	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,698.04	
26 05 19 16-0270 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	15,576.11	1,488.82
For Ethylene-Propylene Rubber (EPR) Insulation, Add	1,667.90	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,891.76	
26 05 19 16-0271 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,486.45	1,636.64
For Ethylene-Propylene Rubber (EPR) Insulation, Add	2,048.74	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,780.39	
26 05 19 16-0272 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,668.17	1,735.06
For Ethylene-Propylene Rubber (EPR) Insulation, Add	2,320.28	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,414.00	
26 05 19 16-0273 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,219.85	1,939.21
For Ethylene-Propylene Rubber (EPR) Insulation, Add	2,647.33	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	6,177.10	
26 05 19 16-0274 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	26,637.39	2,156.72
For Ethylene-Propylene Rubber (EPR) Insulation, Add	3,104.25	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	7,243.24	
26 05 19 16-0275 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	31,316.92	2,243.88
For Ethylene-Propylene Rubber (EPR) Insulation, Add	3,731.90	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	8,707.76	
26 05 19 16-0276 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	51,609.66	2,330.91
For Ethylene-Propylene Rubber (EPR) Insulation, Add	6,664.39	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	15,550.24	
26 05 19 16-0277 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	65,320.96	2,490.61
For Ethylene-Propylene Rubber (EPR) Insulation, Add	8,646.80	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	20,175.88	
26 05 19 16-0278 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,891.38	445.44
26 05 19 16-0279 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,392.43	495.20
26 05 19 16-0280 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,014.70	594.74
26 05 19 16-0281 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,579.05	693.03
26 05 19 16-0282 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,459.52	742.06
26 05 19 16-0283 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	614.87	247.60
26 05 19 16-0284 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	766.29	272.36
26 05 19 16-0285 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	784.06	198.58
26 05 19 16-0286 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	978.96	236.71
26 05 19 16-0287 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,221.39	297.73
26 05 19 16-0288 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,731.72	392.45
26 05 19 16-0289 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,382.80	473.90
26 05 19 16-0290 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,182.95	560.07
26 05 19 16-0291 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,815.83	633.98
26 05 19 16-0292 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,580.91	709.99
26 05 19 16-0293 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,483.84	801.23
26 05 19 16-0294 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,381.88	877.37
26 05 19 16-0295 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,264.18	969.60
26 05 19 16-0296 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,672.32	1,025.56
26 05 19 16-0297 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,376.76	1,153.82
26 05 19 16-0298 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,226.06	1,227.48
26 05 19 16-0299 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,155.60	1,390.15
26 05 19 16-0300 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,234.50	1,538.46
26 05 19 16-0301 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,238.08	1,580.56
26 05 19 16-0302 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	21,758.04	1,672.17
26 05 19 16-0303 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	27,126.39	1,967.81
26 05 19 16-0304 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	41,976.80	2,330.91
26 05 19 16-0305 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	50,350.09	2,814.23
26 05 19 16-0306 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,085.64	594.74
26 05 19 16-0307 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,428.99	693.03
26 05 19 16-0308 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,973.53	792.94
26 05 19 16-0309 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,165.64	890.99
26 05 19 16-0310 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,853.87	990.40
26 05 19 16-0311 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,468.16	1,088.45
26 05 19 16-0312 600 Volt, Single Stranded Copper, Low Smoke Zero Halogen (26 05 19 16-0012)		
26 05 19 16-0313 MLF #14 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit.....	827.86	198.58
26 05 19 16-0314 MLF #12 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit.....	1,065.81	236.71
26 05 19 16-0315 MLF #10 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit.....	1,456.68	297.73
26 05 19 16-0316 MLF #8 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit.....	2,220.89	392.45

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0317 MLF #6 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	3,234.40	473.90
26 05 19 16-0318 MLF #4 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	4,241.18	560.07
26 05 19 16-0319 MLF #3 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	5,121.42	633.98
26 05 19 16-0320 MLF #2 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	6,245.88	709.99
26 05 19 16-0321 MLF #1 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	7,171.01	801.23
26 05 19 16-0322 MLF 1/0 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	8,230.48	877.37
26 05 19 16-0323 MLF 2/0 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	9,508.31	969.60
26 05 19 16-0324 MLF 3/0 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	11,563.46	1,025.56
26 05 19 16-0325 MLF 4/0 AWG, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	14,083.77	1,153.82
26 05 19 16-0326 MLF 250 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	16,059.69	1,227.48
26 05 19 16-0327 MLF 300 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	18,915.64	1,390.15
26 05 19 16-0328 MLF 350 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	21,970.40	1,538.46
26 05 19 16-0329 MLF 400 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	24,090.80	1,580.56
26 05 19 16-0330 MLF 500 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	29,137.42	1,672.17
26 05 19 16-0331 MLF 600 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	34,842.49	1,967.81
26 05 19 16-0332 MLF 750 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	45,473.86	2,330.91
26 05 19 16-0333 MLF 1,000 MCM, Low Smoke Zero Halogen (LSZH), 600 Volt, Single Stranded Copper Cable, Installed In Conduit	59,271.88	2,814.23
26 05 19 16-0334 Non-Metallic Sheathed Cable (26 05 19 16-0012)		
26 05 19 16-0335 Indoor Installation (26 05 19 16-0334)		
Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0336 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,824.71	940.76
For Installation In Wood Stud Wall (Includes Drilling), Add	352.78	
26 05 19 16-0337 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,866.79	1,138.96
For Installation In Wood Stud Wall (Includes Drilling), Add	427.13	
26 05 19 16-0338 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,860.02	1,260.28
For Installation In Wood Stud Wall (Includes Drilling), Add	472.61	
26 05 19 16-0339 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,080.34	1,069.63
For Installation In Wood Stud Wall (Includes Drilling), Add	380.69	
26 05 19 16-0340 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,775.28	1,188.23
For Installation In Wood Stud Wall (Includes Drilling), Add	445.60	
26 05 19 16-0341 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	10,748.48	1,327.14
For Installation In Wood Stud Wall (Includes Drilling), Add	497.68	
26 05 19 16-0342 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,480.01	1,188.85
For Installation In Wood Stud Wall (Includes Drilling), Add	445.83	
26 05 19 16-0343 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	11,120.90	1,386.81
For Installation In Wood Stud Wall (Includes Drilling), Add	520.05	
26 05 19 16-0344 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	13,375.12	1,584.64
For Installation In Wood Stud Wall (Includes Drilling), Add	594.24	
26 05 19 16-0345 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	13,699.39	1,423.70
For Installation In Wood Stud Wall (Includes Drilling), Add	506.96	
26 05 19 16-0346 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	17,655.13	1,720.82
For Installation In Wood Stud Wall (Includes Drilling), Add	612.81	
26 05 19 16-0347 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	18,361.81	1,621.79
For Installation In Wood Stud Wall (Includes Drilling), Add	575.67	
26 05 19 16-0348 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	24,847.37	1,956.05
For Installation In Wood Stud Wall (Includes Drilling), Add	696.37	
26 05 19 16-0349 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	61,302.14	2,154.12
For Installation In Wood Stud Wall (Includes Drilling), Add	766.01	
26 05 19 16-0350 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	71,782.31	2,339.82
For Installation In Wood Stud Wall (Includes Drilling), Add	835.65	
26 05 19 16-0351 Direct Burial Cable (26 05 19 16-0334)		
Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0352 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,820.02	
26 05 19 16-0353 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,684.59	
26 05 19 16-0354 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,582.48	
26 05 19 16-0355 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,617.63	
26 05 19 16-0356 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,908.17	
26 05 19 16-0357 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,635.49	
26 05 19 16-0358 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	6,113.38	
26 05 19 16-0359 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	7,834.75	
26 05 19 16-0360 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	7,723.81	
26 05 19 16-0361 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	10,192.45	
26 05 19 16-0362 SEU Cable Copper, 3 Conductor (26 05 19 16-0334)		
26 05 19 16-0363 MLF 12-12-12 Cable SEU Copper	3,699.44	1,192.61
26 05 19 16-0364 MLF 10-10-10 Cable SEU Copper	4,670.46	1,354.78
26 05 19 16-0365 MLF 8-8-8 Cable SEU Copper	5,844.35	1,517.08
26 05 19 16-0366 MLF 6-6-6 Cable SEU Copper	7,098.61	1,626.40
26 05 19 16-0367 MLF 6-6-6 Cable SEU Copper	7,649.75	1,680.88
26 05 19 16-0368 MLF 4-4-4 Cable SEU Copper	9,366.37	1,843.18
26 05 19 16-0369 MLF 4-4-4 Cable SEU Copper	10,110.19	1,897.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0370 MLF 3-3-5 Cable SEU Copper.....	11,802.14	2,058.99
26 05 19 16-0371 MLF 3-3-3 Cable SEU Copper.....	12,539.84	2,167.64
26 05 19 16-0372 MLF 2-2-4 Cable SEU Copper.....	13,403.86	2,276.97
26 05 19 16-0373 MLF 2-2-2 Cable SEU Copper.....	14,340.74	2,385.22
26 05 19 16-0374 MLF 1-1-1 Cable SEU Copper.....	17,597.39	2,709.56
26 05 19 16-0375 MLF 1/0-1/0-1/0 Cable SEU Copper.....	20,981.32	3,037.68
26 05 19 16-0376 MLF 2/0-2/0-2/0 Cable SEU Copper.....	25,315.28	3,421.22
26 05 19 16-0377 MLF 3/0-3/0-3/0 Cable SEU Copper.....	30,522.72	3,805.57
26 05 19 16-0378 MLF 4/0-4/0-4/0 Cable SEU Copper.....	34,112.07	4,246.96
26 05 19 16-0379 SER Cable Copper, 4 Conductor (26 05 19 16-0334)		
26 05 19 16-0380 MLF 6-6-6-6 Cable SER Copper.....	11,835.67	1,952.10
26 05 19 16-0381 MLF 4-4-4-6 Cable SER Copper.....	12,981.88	2,113.59
26 05 19 16-0382 MLF 3-3-3-5 Cable SER Copper.....	16,116.95	2,385.22
26 05 19 16-0383 MLF 2-2-2-4 Cable SER Copper.....	18,467.33	2,600.35
26 05 19 16-0384 MLF 1-1-1-3 Cable SER Copper.....	21,531.03	2,977.53
26 05 19 16-0385 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	26,250.60	3,412.54
26 05 19 16-0386 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	32,963.96	3,681.47
26 05 19 16-0387 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	38,091.91	4,117.85
26 05 19 16-0388 Control Tray Cable, Low Voltage (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0389 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,400.66	600.56
For Work In Restricted Working Space, Add	300.28	
26 05 19 16-0390 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,633.60	671.79
For Work In Restricted Working Space, Add	335.90	
26 05 19 16-0391 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,738.29	671.74
For Work In Restricted Working Space, Add	335.90	
26 05 19 16-0392 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,175.19	842.56
For Work In Restricted Working Space, Add	421.28	
26 05 19 16-0393 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,767.68	1,026.74
For Work In Restricted Working Space, Add	513.37	
26 05 19 16-0394 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,195.19	1,129.06
For Work In Restricted Working Space, Add	564.53	
26 05 19 16-0395 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,851.33	1,282.89
For Work In Restricted Working Space, Add	641.45	
26 05 19 16-0396 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,916.69	1,568.05
For Work In Restricted Working Space, Add	784.03	
26 05 19 16-0397 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,687.36	1,710.67
For Work In Restricted Working Space, Add	855.34	
26 05 19 16-0398 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,956.68	1,764.15
For Work In Restricted Working Space, Add	882.08	
26 05 19 16-0399 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	8,498.57	2,203.89
For Work In Restricted Working Space, Add	1,101.95	
26 05 19 16-0400 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	10,250.79	2,575.67
For Work In Restricted Working Space, Add	1,287.83	
26 05 19 16-0401 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,553.21	632.62
For Work In Restricted Working Space, Add	316.06	
26 05 19 16-0402 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,821.02	707.15
For Work In Restricted Working Space, Add	353.57	
26 05 19 16-0403 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,130.15	814.11
For Work In Restricted Working Space, Add	407.06	
26 05 19 16-0404 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,441.84	886.90
For Work In Restricted Working Space, Add	443.45	
26 05 19 16-0405 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,121.86	1,080.77
For Work In Restricted Working Space, Add	540.39	
26 05 19 16-0406 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,622.59	1,188.48
For Work In Restricted Working Space, Add	594.24	
26 05 19 16-0407 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,392.15	1,350.41
For Work In Restricted Working Space, Add	675.21	
26 05 19 16-0408 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable.....	5,629.91	1,650.50
For Work In Restricted Working Space, Add	825.25	
26 05 19 16-0409 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable.....	6,546.23	1,800.55
For Work In Restricted Working Space, Add	900.28	
26 05 19 16-0410 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable.....	8,115.54	1,857.00
For Work In Restricted Working Space, Add	928.50	
26 05 19 16-0411 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable.....	9,898.05	2,319.76
For Work In Restricted Working Space, Add	1,159.88	
26 05 19 16-0412 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable.....	11,966.23	2,711.22
For Work In Restricted Working Space, Add	1,355.61	
26 05 19 16-0413 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,707.33	660.35
For Work In Restricted Working Space, Add	330.17	
26 05 19 16-0414 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,082.69	742.80
For Work In Restricted Working Space, Add	371.40	
26 05 19 16-0415 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,461.97	849.02
For Work In Restricted Working Space, Add	424.51	
26 05 19 16-0416 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,808.86	914.39
For Work In Restricted Working Space, Add	457.19	
26 05 19 16-0417 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable.....	3,831.15	1,120.89
For Work In Restricted Working Space, Add	560.45	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0418 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,466.94 619.13	1,238.00
26 05 19 16-0419 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,610.06 690.81	1,381.61
26 05 19 16-0420 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,700.64 825.25	1,650.25
26 05 19 16-0421 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,141.82 958.58	1,917.66
26 05 19 16-0422 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,257.09 1,121.26	2,242.02
26 05 19 16-0423 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,017.09 1,252.73	2,505.47
26 05 19 16-0424 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	14,561.98 1,464.06	2,928.12
26 05 19 16-0425 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,047.06 353.57	707.15
26 05 19 16-0426 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,505.21 391.08	782.42
26 05 19 16-0427 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,094.65 450.14	900.28
26 05 19 16-0428 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,560.02 479.11	958.22
26 05 19 16-0429 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,806.92 571.22	1,142.42
26 05 19 16-0430 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,986.35 675.21	1,350.41
26 05 19 16-0431 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,393.12 761.74	1,523.48
26 05 19 16-0432 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,861.52 873.91	1,747.81
26 05 19 16-0433 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,558.92 990.53	1,981.05
26 05 19 16-0434 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	13,733.36 1,157.66	2,315.31
26 05 19 16-0435 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	15,879.94 1,353.01	2,706.02
26 05 19 16-0436 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	19,309.99 1,581.42	3,162.85
26 05 19 16-0437 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,534.77 371.40	742.80
26 05 19 16-0438 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,272.27 407.06	814.61
26 05 19 16-0439 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,045.87 464.25	928.50
26 05 19 16-0440 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,771.95 503.62	1,007.24
26 05 19 16-0441 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,556.56 632.12	1,264.25
26 05 19 16-0442 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,854.81 707.52	1,415.03
26 05 19 16-0443 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,151.43 825.25	1,650.50
26 05 19 16-0444 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,878.81 943.73	1,887.46
26 05 19 16-0445 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,999.76 1,069.63	2,139.27
26 05 19 16-0446 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	17,003.97 1,250.13	2,500.27
26 05 19 16-0447 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	19,651.17 1,461.09	2,922.18
26 05 19 16-0448 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	23,943.72 1,708.07	3,416.14

26 05 19 16-0449 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011)

Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.

26 05 19 16-0450 ACSR Cable (26 05 19 16-0449)

26 05 19 16-0451 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial).....	2,019.36	618.21
26 05 19 16-0452 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial).....	2,160.06	641.92
26 05 19 16-0453 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial).....	2,360.16	666.63
26 05 19 16-0454 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial).....	2,501.24	690.77
26 05 19 16-0455 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial).....	2,841.00	714.20
26 05 19 16-0456 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial).....	3,332.46	809.61
26 05 19 16-0457 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial).....	3,887.53	902.89
26 05 19 16-0458 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial).....	4,511.77	997.45
26 05 19 16-0459 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial).....	5,172.88	1,281.84
26 05 19 16-0460 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial).....	5,871.86	1,470.39

26 05 19 16-0461 All Aluminum Conductors (26 05 19 16-0449)

26 05 19 16-0462 MLF 795.0 ACSR Conductor Aluminum	39,832.22	12,108.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0463 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0464 Bare Stranded Conductor (26 05 19 16-0463)		
26 05 19 16-0465 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,605.16	523.79
26 05 19 16-0466 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,899.24	570.93
26 05 19 16-0467 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,194.84	618.64
26 05 19 16-0468 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,728.47	666.63
26 05 19 16-0469 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,358.98	714.76
26 05 19 16-0470 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,882.91	857.32
26 05 19 16-0471 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,625.49	952.31
26 05 19 16-0472 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	6,437.40	1,045.58
26 05 19 16-0473 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	8,703.54	1,240.13
26 05 19 16-0474 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	10,595.93	1,425.82
26 05 19 16-0475 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	11,335.84	1,615.94
26 05 19 16-0476 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	14,410.02	1,904.47
26 05 19 16-0477 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	14,715.97	2,004.75
26 05 19 16-0478 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	18,547.83	2,099.45
26 05 19 16-0479 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	20,555.44	2,185.58
26 05 19 16-0480 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	24,080.07	2,278.86
26 05 19 16-0481 Insulated Stranded Conductor (26 05 19 16-0463)		
26 05 19 16-0482 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,753.90	523.79
26 05 19 16-0483 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,091.15	570.93
26 05 19 16-0484 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,573.70	618.64
26 05 19 16-0485 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,800.18	666.63
26 05 19 16-0486 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,468.39	714.76
26 05 19 16-0487 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,724.90	857.32
26 05 19 16-0488 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,609.72	952.31
26 05 19 16-0489 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,657.41	1,045.58
26 05 19 16-0490 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,027.93	1,240.13
26 05 19 16-0491 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	9,654.20	1,425.82
26 05 19 16-0492 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	11,409.31	1,615.94
26 05 19 16-0493 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	13,960.52	1,904.47
26 05 19 16-0494 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	15,905.79	2,004.75
26 05 19 16-0495 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	17,486.47	2,099.45
26 05 19 16-0496 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	19,675.43	2,185.58
26 05 19 16-0497 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	22,208.31	2,278.86
26 05 19 16-0498 Bare Solid Conductor (26 05 19 16-0463)		
26 05 19 16-0499 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,605.16	523.79
26 05 19 16-0500 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,194.84	618.64
26 05 19 16-0501 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,728.47	666.63
26 05 19 16-0502 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	3,313.77	714.76
26 05 19 16-0503 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0504 Multi-Conductor Cords (26 05 19 16-0503) Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0505 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0504) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0506 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0505)		
26 05 19 16-0507 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0506)		
26 05 19 16-0508 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.18	0.54
26 05 19 16-0509 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.22	0.54
26 05 19 16-0510 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.32	0.54
26 05 19 16-0511 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0506)		
26 05 19 16-0512 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.39	0.54
26 05 19 16-0513 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.45	0.54
26 05 19 16-0514 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.53	0.54
26 05 19 16-0515 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0506)		
26 05 19 16-0516 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.50	0.54
26 05 19 16-0517 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.60	0.54
26 05 19 16-0518 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.78	0.54
26 05 19 16-0519 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0506)		
26 05 19 16-0520 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.66	0.54
26 05 19 16-0521 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.77	0.54

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0522 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.93	0.54
26 05 19 16-0523 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0506)		
26 05 19 16-0524 LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.05	0.68
26 05 19 16-0525 LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.13	0.68
26 05 19 16-0526 LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.25	0.68
26 05 19 16-0527 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0528 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0527)		
26 05 19 16-0529 LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.22	0.54
26 05 19 16-0530 LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.29	0.54
26 05 19 16-0531 LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.38	0.54
26 05 19 16-0532 LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.21	0.73
26 05 19 16-0533 LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.37	0.75
26 05 19 16-0534 LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.50	0.77
26 05 19 16-0535 LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.71	0.79
26 05 19 16-0536 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.05	0.83
26 05 19 16-0537 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.42	0.85
26 05 19 16-0538 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.33	0.87
26 05 19 16-0539 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.42	0.89
26 05 19 16-0540 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.53	0.91
26 05 19 16-0541 LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.98	0.93
26 05 19 16-0542 LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.13	0.95
26 05 19 16-0543 LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.41	1.01
26 05 19 16-0544 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0527)		
26 05 19 16-0545 LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.45	0.54
26 05 19 16-0546 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.51	0.54
26 05 19 16-0547 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.62	0.54
26 05 19 16-0548 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.28	0.73
26 05 19 16-0549 LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.47	0.75
26 05 19 16-0550 LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.66	0.77
26 05 19 16-0551 LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.91	0.79
26 05 19 16-0552 LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.02	0.81
26 05 19 16-0553 LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.30	0.83
26 05 19 16-0554 LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.78	0.85
26 05 19 16-0555 LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.02	0.87
26 05 19 16-0556 LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.48	0.89
26 05 19 16-0557 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.09	0.91
26 05 19 16-0558 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.64	0.93
26 05 19 16-0559 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.70	0.95
26 05 19 16-0560 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.31	0.97
26 05 19 16-0561 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.43	1.01
26 05 19 16-0562 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0527)		
26 05 19 16-0563 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.61	0.54
26 05 19 16-0564 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.68	0.54
26 05 19 16-0565 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.85	0.54
26 05 19 16-0566 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.81	0.73
26 05 19 16-0567 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.27	0.75
26 05 19 16-0568 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.44	0.77
26 05 19 16-0569 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.82	0.79
26 05 19 16-0570 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.08	0.81
26 05 19 16-0571 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.50	0.83
26 05 19 16-0572 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.91	0.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0573 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.37	0.87
26 05 19 16-0574 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.35	0.89
26 05 19 16-0575 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.07	0.93
26 05 19 16-0576 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.24	0.95
26 05 19 16-0577 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.67	1.01
26 05 19 16-0578 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0527)		
26 05 19 16-0579 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.78	0.54
26 05 19 16-0580 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.91	0.54
26 05 19 16-0581 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.03	0.54
26 05 19 16-0582 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.14	0.73
26 05 19 16-0583 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.57	0.75
26 05 19 16-0584 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.01	0.77
26 05 19 16-0585 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.49	0.79
26 05 19 16-0586 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.83	0.81
26 05 19 16-0587 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.41	0.83
26 05 19 16-0588 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.10	0.85
26 05 19 16-0589 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.73	0.87
26 05 19 16-0590 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.37	0.89
26 05 19 16-0591 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.68	0.91
26 05 19 16-0592 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.77	0.93
26 05 19 16-0593 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.89	0.95
26 05 19 16-0594 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.01	0.97
26 05 19 16-0595 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.37	0.99
26 05 19 16-0596 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.78	1.01
26 05 19 16-0597 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0527)		
26 05 19 16-0598 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.02	0.68
26 05 19 16-0599 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.13	0.68
26 05 19 16-0600 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.24	0.68
26 05 19 16-0601 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.79	0.73
26 05 19 16-0602 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.25	0.75
26 05 19 16-0603 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.91	0.77
26 05 19 16-0604 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.22	0.83
26 05 19 16-0605 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.06	0.85
26 05 19 16-0606 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.87	0.89
26 05 19 16-0607 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.64	0.93
26 05 19 16-0608 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0527)		
26 05 19 16-0609 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.74	0.81
26 05 19 16-0610 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.03	0.95
26 05 19 16-0611 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.27	0.95
26 05 19 16-0612 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0527)		
26 05 19 16-0613 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.12	0.95
26 05 19 16-0614 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.15	1.08
26 05 19 16-0615 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.37	1.35
26 05 19 16-0616 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0527)		
26 05 19 16-0617 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.00	1.35
26 05 19 16-0618 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.73	1.49
26 05 19 16-0619 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.43	1.62
26 05 19 16-0620 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0527)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0621 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	12.60	2.71
26 05 19 16-0622 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	15.98	3.39
26 05 19 16-0623 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.71	4.47
26 05 19 16-0624 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0505)		
26 05 19 16-0625 #18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0624)		
26 05 19 16-0626 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.54	0.54
26 05 19 16-0627 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.64	0.54
26 05 19 16-0628 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.84	0.54
26 05 19 16-0629 #16, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0624)		
26 05 19 16-0630 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.60	0.54
26 05 19 16-0631 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.77	0.54
26 05 19 16-0632 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.85	0.54
26 05 19 16-0633 #14, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0624)		
26 05 19 16-0634 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.02	0.54
26 05 19 16-0635 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.71	0.54
26 05 19 16-0636 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.37	0.68
26 05 19 16-0637 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0638 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0637)		
26 05 19 16-0639 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	1.97	0.54
26 05 19 16-0640 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.26	0.54
26 05 19 16-0641 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.56	0.54
26 05 19 16-0642 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0637)		
26 05 19 16-0643 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.07	0.54
26 05 19 16-0644 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.37	0.54
26 05 19 16-0645 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.83	0.54
26 05 19 16-0646 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.07	0.68
26 05 19 16-0647 #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0637)		
26 05 19 16-0648 LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.44	0.54
26 05 19 16-0649 LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.82	0.54
26 05 19 16-0650 LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.13	0.68
26 05 19 16-0651 #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0637)		
26 05 19 16-0652 LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.79	0.54
26 05 19 16-0653 LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.13	0.54
26 05 19 16-0654 LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.48	0.68
26 05 19 16-0655 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0637)		
26 05 19 16-0656 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.17	0.68
26 05 19 16-0657 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.47	0.68
26 05 19 16-0658 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.80	0.68



Electrical		26
Common Work Results for Electrical		26 05
Low-Voltage Electrical Power Conductors and Cables		26 05 19

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0659	Multi-Conductor Type SEOW Cord (26 05 19 16-0504) Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0660	600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0659)		
26 05 19 16-0661	#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0660)		
26 05 19 16-0662	LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.61	0.54
26 05 19 16-0663	LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.73	0.54
26 05 19 16-0664	LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.41	0.68
26 05 19 16-0665	#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0660)		
26 05 19 16-0666	LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.96	0.54
26 05 19 16-0671	LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.18	0.54
26 05 19 16-0668	LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.96	0.68
26 05 19 16-0669	#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0660)		
26 05 19 16-0670	LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.32	0.54
26 05 19 16-0671	LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.61	0.54
26 05 19 16-0672	LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.19	0.68
26 05 19 16-0673	#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0660)		
26 05 19 16-0674	LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.85	0.68
26 05 19 16-0675	LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.19	0.68
26 05 19 16-0676	LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.41	0.68
26 05 19 16-0677	Multi-Conductor Type W Cord (26 05 19 16-0504) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0678	2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0677)		
26 05 19 16-0679	#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0678)		
26 05 19 16-0680	LF 3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.03	0.81
26 05 19 16-0681	LF 4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.30	0.95
26 05 19 16-0682	LF 5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.00	0.95
26 05 19 16-0683	#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0678)		
26 05 19 16-0684	LF 3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.35	0.95
26 05 19 16-0685	LF 4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.16	1.08
26 05 19 16-0686	LF 5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.37	1.35
26 05 19 16-0687	#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0678)		
26 05 19 16-0688	LF 3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.61	0.95
26 05 19 16-0689	LF 4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.62	1.08
26 05 19 16-0690	LF 5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.41	1.35
26 05 19 16-0691	Cord Grips, Cable Reels, Extension Cords, And Accessories (26 05 19 16-0503)		
26 05 19 16-0692	Cord Grips (26 05 19 16-0691)		
26 05 19 16-0693	EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	85.97	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 05 19 16-0694	EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	86.41	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 05 19 16-0695	Cable Reels (26 05 19 16-0691) Note: Includes handling, mounting, electrical connections and installing cord. See CSI section 26 05 19 16-0503 for cords.		
26 05 19 16-0696	EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	710.93	67.74
26 05 19 16-0697	EA 50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1)	1,947.33	67.74
26 05 19 16-0698	EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,458.59	67.74
26 05 19 16-0699	Extension Cords For Cable Reel (26 05 19 16-0691)		
26 05 19 16-0700	EA 100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord	219.85	
26 05 19 16-0701	EA 100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	312.24	
26 05 19 16-0702	Plugs And Connector Bodies (26 05 19 16-0691) Note: Up to 277 volt		
26 05 19 16-0703	NEMA Twist-Lock Plugs (26 05 19 16-0702)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0704	EA	15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	88.76		
26 05 19 16-0705	EA	15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	90.38		
26 05 19 16-0706	EA	20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	83.57		
26 05 19 16-0707	EA	20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	88.56		
26 05 19 16-0708	EA	20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	111.94		
26 05 19 16-0709	EA	20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	118.27		
26 05 19 16-0710	EA	20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	124.47		
26 05 19 16-0711	EA	30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	112.88		
26 05 19 16-0712	EA	30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	128.11		
26 05 19 16-0713	EA	30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	131.07		
26 05 19 16-0714	EA	30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	134.85		
26 05 19 16-0715 NEMA Twist-Lock Connector Bodies (26 05 19 16-0702)					
26 05 19 16-0716	EA	15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	93.34		
26 05 19 16-0717	EA	15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	99.07		
26 05 19 16-0718	EA	20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	87.01		
26 05 19 16-0719	EA	20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	112.88		
26 05 19 16-0720	EA	20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	129.59		
26 05 19 16-0721	EA	20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	137.68		
26 05 19 16-0722	EA	20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	164.89		
26 05 19 16-0723	EA	30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	158.02		
26 05 19 16-0724	EA	30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	192.11		
26 05 19 16-0725	EA	30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	201.14		
26 05 19 16-0726	EA	30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	191.31		
26 05 19 16-0727 Watertight Pin And Sleeve Plug (26 05 19 16-0702)					
26 05 19 16-0728	EA	20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	299.36	40.64	
26 05 19 16-0729	EA	20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	302.52	40.64	
26 05 19 16-0730	EA	20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	327.08	40.64	
26 05 19 16-0731	EA	20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	327.81	44.71	
26 05 19 16-0732	EA	20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	323.04	44.71	
26 05 19 16-0733	EA	20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	324.46	44.71	
26 05 19 16-0734	EA	30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	456.07	49.99	
26 05 19 16-0735	EA	30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	444.21	49.99	
26 05 19 16-0736	EA	30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	495.17	49.99	
26 05 19 16-0737	EA	30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	486.77	54.87	
26 05 19 16-0738	EA	30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	466.17	54.87	
26 05 19 16-0739	EA	30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	480.34	54.87	
26 05 19 16-0740	EA	60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	619.53	65.03	
26 05 19 16-0741	EA	60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	630.83	65.03	
26 05 19 16-0742	EA	60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	604.04	65.03	
26 05 19 16-0743	EA	60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	687.82	72.34	
26 05 19 16-0744	EA	60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	670.23	72.34	
26 05 19 16-0745	EA	60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	677.84	72.34	
26 05 19 16-0746	EA	100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	849.81	81.29	
26 05 19 16-0747	EA	100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	893.45	81.29	
26 05 19 16-0748	EA	100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	871.57	89.42	
26 05 19 16-0749	EA	100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	856.66	89.42	
26 05 19 16-0750	EA	100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	864.71	89.42	
26 05 19 16-0751 Watertight Pin And Sleeve Connector (26 05 19 16-0702)					
26 05 19 16-0752	EA	20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	317.55	40.64	
26 05 19 16-0753	EA	20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....	319.74	40.64	
26 05 19 16-0754	EA	20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....	376.29	40.64	
26 05 19 16-0755	EA	20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....	373.64	44.71	
26 05 19 16-0756	EA	20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....	367.90	44.71	
26 05 19 16-0757	EA	20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....	373.09	44.71	
26 05 19 16-0758	EA	30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....	466.94	49.99	
26 05 19 16-0759	EA	30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....	466.82	49.99	
26 05 19 16-0760	EA	30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....	486.33	49.99	
26 05 19 16-0761	EA	30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	481.48	54.87	
26 05 19 16-0762	EA	30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....	485.49	54.87	
26 05 19 16-0763	EA	30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....	481.25	54.87	
26 05 19 16-0764	EA	60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....	731.00	65.03	
26 05 19 16-0765	EA	60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....	707.11	65.03	
26 05 19 16-0766	EA	60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....	692.88	65.03	
26 05 19 16-0767	EA	60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	754.17	72.34	
26 05 19 16-0768	EA	60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....	774.93	72.34	
26 05 19 16-0769	EA	60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....	776.45	72.34	
26 05 19 16-0770	EA	100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....	972.09	81.29	
26 05 19 16-0771	EA	100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....	999.48	81.29	
26 05 19 16-0772	EA	100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W).....	1,080.11	89.42	
26 05 19 16-0773	EA	100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....	1,042.47	89.42	
26 05 19 16-0774	EA	100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W).....	1,055.31	89.42	
26 05 19 16-0775 Accessories (26 05 19 16-0691)					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0776 EA 1/2" Straight Steel Cord Connector.....	67.51	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0777 EA 1/2" Straight Nylon Cord Connector.....	40.53	10.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 19 16-0778 EA 1/2" 90 Degree Steel Cord Connector.....	77.31	16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 19 16-0779 EA 1/2" 90 Degree Nylon Cord Connector.....	48.81	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0780 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	76.31	16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 19 16-0781 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	131.87	20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 19 16-0782 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	48.04	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0783 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	80.99	16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 19 16-0784 EA 3/4" Straight Steel Cord Connector.....	70.35	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0785 EA 3/4" Straight Nylon Cord Connector.....	41.95	10.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 19 16-0786 EA 3/4" 90 Degree Steel Cord Connector.....	86.20	16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 19 16-0787 EA 3/4" 90 Degree Nylon Cord Connector.....	53.26	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0788 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh.....	86.07	20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 19 16-0789 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	102.37	23.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 19 16-0790 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh.....	57.81	16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 19 16-0791 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	69.82	20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.20	
26 05 19 16-0792 EA 1" Straight Steel Cord Connector.....	88.61	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0793 EA 1" Straight Nylon Cord Connector.....	51.08	10.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 19 16-0794 EA 1" 90 Degree Steel Cord Connector.....	98.26	16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 19 16-0795 EA 1" 90 Degree Nylon Cord Connector.....	59.29	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0796 EA 1" Straight Steel Cord Connector With Strain Relief Mesh.....	105.24	20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 19 16-0797 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	115.02	23.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 19 16-0798 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh.....	67.53	16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 19 16-0799 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	78.05	20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.20	
26 05 19 16-0800 Luminary Cable (26 05 19 16)		
26 05 19 16-0801 MLF 16-2 (1TPJ), 12-2 MC Tuff Luminary Cable™.....	4,566.89	1,069.63
26 05 19 16-0802 MLF 16-2 (1TPJ), 12-3 MC Tuff Luminary Cable™.....	5,187.87	1,188.48
26 05 19 16-0803 MLF 16-2 (1TPJ), 10-2 MC Tuff Luminary Cable™.....	5,652.42	1,188.48
26 05 19 16-0804 MLF 16-2 (1TPJ), 12-2 MC Lite Luminary Cable™.....	5,077.39	1,069.63
26 05 19 16-0805 MLF 16-2 (1TPJ), 12-3 MC Lite Luminary Cable™.....	5,663.34	1,188.48
26 05 19 16-0806 MLF 16-2 (1TPJ), 10-2 MC Lite Luminary Cable™.....	5,633.98	1,188.48
26 05 19 16-0807 MLF 16-2 (1TPJ), 12-2 MC Lite Luminary Stranded Cable™.....	4,780.94	1,069.63
26 05 19 16-0808 MLF 16-2 (1TPJ), 12-3 MC Lite Luminary Stranded Cable™.....	5,655.30	1,188.48
26 05 23 Control-Voltage Electrical Power Cables (26 05)		
26 05 23 00-0001 Cable For HVAC System Controls (26 05 23)		
26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt (26 05 23 00-0001)		
Note: For surface or conduit installation.		
26 05 23 00-0003 MLF #20/2 Conductor, Low Volt Thermostat Cable.....	498.89	157.85
26 05 23 00-0004 MLF #20/3 Conductor, Low Volt Thermostat Cable.....	560.40	166.27
26 05 23 00-0005 MLF #20/4 Conductor, Low Volt Thermostat Cable.....	604.44	175.80
26 05 23 00-0006 MLF #20/5 Conductor, Low Volt Thermostat Cable.....	705.13	183.22
26 05 23 00-0007 MLF #20/6 Conductor, Low Volt Thermostat Cable.....	737.32	191.89
26 05 23 00-0008 MLF #20/7 Conductor, Low Volt Thermostat Cable.....	805.53	199.87
26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable.....	865.65	207.86
26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable.....	933.54	216.16
26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable.....	997.80	222.64
26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable.....	532.81	157.85
26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable.....	620.93	166.27
26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable.....	700.46	175.80
26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable.....	744.77	183.22
26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable.....	816.94	191.89
26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable.....	842.09	199.87
26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable.....	921.44	207.86

26 Electrical**26 05 Common Work Results for Electrical****26 05 23 Control-Voltage Electrical Power Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 05 23 00-0019	MLF #18/9 Conductor, Low Volt Thermostat Cable	1,067.41	216.16
26 05 23 00-0020	MLF #18/10 Conductor, Low Volt Thermostat Cable	1,162.92	222.64

26 05 26 Grounding and Bonding for Electrical Systems (26 05)**26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)****26 05 26 00-0002 Single Conductor (26 05 26 00-0001)****26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)**

26 05 26 00-0004	MLF 12 AWG Copper Bare Single Stranded Conductor	736.74	252.27
26 05 26 00-0005	MLF 10 AWG Copper Bare Single Stranded Conductor	1,000.12	252.27
26 05 26 00-0006	MLF 8 AWG Copper Bare Single Stranded Conductor	1,264.51	303.87
26 05 26 00-0007	MLF 6 AWG Copper Bare Single Stranded Conductor	1,792.23	303.87
26 05 26 00-0008	MLF 4 AWG Copper Bare Single Stranded Conductor	2,452.68	366.94
26 05 26 00-0009	MLF 2 AWG Copper Bare Single Stranded Conductor	3,940.29	366.94
26 05 26 00-0010	MLF 1 AWG Copper Bare Single Stranded Conductor	4,581.98	441.48
26 05 26 00-0011	MLF 1/0 AWG Copper Bare Single Stranded Conductor	5,382.12	441.48
26 05 26 00-0012	MLF 2/0 AWG Copper Bare Single Stranded Conductor	7,617.34	556.14
26 05 26 00-0013	MLF 3/0 AWG Copper Bare Single Stranded Conductor	9,428.57	556.14
26 05 26 00-0014	MLF 4/0 AWG Copper Bare Single Stranded Conductor	9,954.52	739.60
26 05 26 00-0015	MLF 250 MCM Copper Bare Single Stranded Conductor	12,865.29	739.60
26 05 26 00-0016	MLF 300 MCM Copper Bare Single Stranded Conductor	12,874.17	854.27
26 05 26 00-0017	MLF 350 MCM Copper Bare Single Stranded Conductor	17,480.65	854.27
26 05 26 00-0018	MLF 500 MCM Copper Bare Single Stranded Conductor	23,946.74	1,054.94

26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0020	MLF 12 AWG Copper Insulated Single Stranded Conductor	1,474.18	344.01
26 05 26 00-0021	MLF 10 AWG Copper Insulated Single Stranded Conductor	1,543.22	344.01
26 05 26 00-0022	MLF 8 AWG Copper Insulated Single Stranded Conductor	2,004.20	344.01
26 05 26 00-0023	MLF 6 AWG Copper Insulated Single Stranded Conductor	2,249.03	596.27
26 05 26 00-0024	MLF 4 AWG Copper Insulated Single Stranded Conductor	3,092.07	596.27
26 05 26 00-0025	MLF 2 AWG Copper Insulated Single Stranded Conductor	4,434.29	596.27
26 05 26 00-0026	MLF 1 AWG Copper Insulated Single Stranded Conductor	5,395.64	1,043.48
26 05 26 00-0027	MLF 1/0 AWG Copper Insulated Single Stranded Conductor	6,618.90	1,043.48
26 05 26 00-0028	MLF 2/0 AWG Copper Insulated Single Stranded Conductor	7,813.57	1,043.48
26 05 26 00-0029	MLF 3/0 AWG Copper Insulated Single Stranded Conductor	9,374.70	1,043.48
26 05 26 00-0030	MLF 4/0 AWG Copper Insulated Single Stranded Conductor	11,115.11	1,364.55
26 05 26 00-0031	MLF 250 MCM Copper Insulated Single Stranded Conductor	13,527.36	1,364.55
26 05 26 00-0032	MLF 300 MCM Copper Insulated Single Stranded Conductor	15,818.30	1,364.55
26 05 26 00-0033	MLF 350 MCM Copper Insulated Single Stranded Conductor	18,377.17	2,121.35
26 05 26 00-0034	MLF 500 MCM Copper Insulated Single Stranded Conductor	24,170.45	2,121.35

26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0036	MLF 12 AWG Copper Bare Single Solid Conductor	736.74	252.27
26 05 26 00-0037	MLF 10 AWG Copper Bare Single Solid Conductor	1,000.12	252.27
26 05 26 00-0038	MLF 8 AWG Copper Bare Single Solid Conductor	1,264.51	303.87
26 05 26 00-0039	MLF 6 AWG Copper Bare Single Solid Conductor	1,792.23	303.87
26 05 26 00-0040	MLF 4 AWG Copper Bare Single Solid Conductor	2,452.68	366.94
26 05 26 00-0041	MLF 2 AWG Copper Bare Single Solid Conductor	3,940.29	366.94
26 05 26 00-0042	MLF 1/0 AWG Copper Bare Single Solid Conductor	5,382.12	441.48
26 05 26 00-0043	MLF 2/0 AWG Copper Bare Single Solid Conductor	6,865.66	556.14
26 05 26 00-0044	MLF 3/0 AWG Copper Bare Single Solid Conductor	8,348.89	556.14
26 05 26 00-0045	MLF 4/0 AWG Copper Bare Single Solid Conductor	9,954.52	584.80

26 05 26 00-0046 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0047	MLF 8 AWG Aluminum Bare Single Stranded Conductor	903.68	303.87
26 05 26 00-0048	MLF 6 AWG Aluminum Bare Single Stranded Conductor	1,010.70	303.87
26 05 26 00-0049	MLF 4 AWG Aluminum Bare Single Stranded Conductor	1,177.84	366.94
26 05 26 00-0050	MLF 2 AWG Aluminum Bare Single Stranded Conductor	1,525.36	366.94
26 05 26 00-0051	MLF 1 AWG Aluminum Bare Single Stranded Conductor	1,815.86	441.48
26 05 26 00-0052	MLF 1/0 AWG Aluminum Bare Single Stranded Conductor	2,080.82	441.48
26 05 26 00-0053	MLF 2/0 AWG Aluminum Bare Single Stranded Conductor	2,390.84	556.14
26 05 26 00-0054	MLF 3/0 AWG Aluminum Bare Single Stranded Conductor	2,783.82	556.14
26 05 26 00-0055	MLF 4/0 AWG Aluminum Bare Single Stranded Conductor	3,300.32	739.60
26 05 26 00-0056	MLF 250 MCM Aluminum Bare Single Stranded Conductor	3,741.67	739.60
26 05 26 00-0057	MLF 300 MCM Aluminum Bare Single Stranded Conductor	4,579.72	854.27
26 05 26 00-0058	MLF 350 MCM Aluminum Bare Single Stranded Conductor	5,283.09	854.27
26 05 26 00-0059	MLF 500 MCM Aluminum Bare Single Stranded Conductor	6,187.90	1,054.94

26 05 26 00-0060 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0061	MLF 8 AWG Aluminum Bare Single Solid Conductor	903.68	303.87
26 05 26 00-0062	MLF 6 AWG Aluminum Bare Single Solid Conductor	1,010.70	303.87
26 05 26 00-0063	MLF 4 AWG Aluminum Bare Single Solid Conductor	1,177.84	366.94
26 05 26 00-0064	MLF 2 AWG Aluminum Bare Single Solid Conductor	1,525.36	366.94
26 05 26 00-0065	MLF 1 AWG Aluminum Bare Single Solid Conductor	1,769.59	584.80



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0066	MLF	1/0 AWG Aluminum Bare Single Solid Conductor	2,080.82	584.80
26 05 26 00-0067	MLF	2/0 AWG Aluminum Bare Single Solid Conductor	2,276.20	556.14
26 05 26 00-0068	MLF	3/0 AWG Aluminum Bare Single Solid Conductor	2,552.99	556.14
26 05 26 00-0069	MLF	4/0 AWG Aluminum Bare Single Solid Conductor	3,300.32	739.60
26 05 26 00-0070	MLF	250 MCM Aluminum Bare Single Solid Conductor	3,741.67	739.60
26 05 26 00-0071	MLF	300 MCM Aluminum Bare Single Solid Conductor	4,579.72	854.27
26 05 26 00-0072	MLF	350 MCM Aluminum Bare Single Solid Conductor	5,283.09	854.27
26 05 26 00-0073	MLF	500 MCM Aluminum Bare Single Solid Conductor	6,187.90	1,054.94
26 05 26 00-0074 Aluminum Smooth Woven Conductors (26 05 26 00-0002)				
26 05 26 00-0075	LF	10 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.22	0.93
26 05 26 00-0076	LF	16 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.54	1.03
26 05 26 00-0077	LF	24 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.20	1.18
26 05 26 00-0078	LF	26 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.23	1.20
26 05 26 00-0079	LF	28 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.44	1.26
26 05 26 00-0080 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)				
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.				
26 05 26 00-0081	EA	100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	170.55	33.87
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 05 26 00-0082	EA	225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	299.75	40.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 26 00-0083	EA	225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length	387.22	40.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 26 00-0084	EA	225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length	473.49	40.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 26 00-0085	EA	400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	404.76	44.03
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.48	
26 05 26 00-0086	EA	400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length	530.60	44.03
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.48	
26 05 26 00-0087	EA	400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length	639.93	44.03
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.48	
26 05 26 00-0088	EA	600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	530.02	55.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.53	
26 05 26 00-0089	EA	800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	637.23	67.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 05 26 00-0090 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)				
26 05 26 00-0091	EA	1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit	219.58	74.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.34	
26 05 26 00-0092	EA	1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit	270.55	74.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.11	
26 05 26 00-0093	EA	2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit	404.20	115.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.58	
26 05 26 00-0094	EA	5" To 6" Conductor, Bonding Jumper, Metallic Conduit	605.85	115.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.26	
26 05 26 00-0095 Ground Rods (26 05 26)				
26 05 26 00-0096 Copper-Clad Ground Rods (26 05 26 00-0095)				
26 05 26 00-0097	EA	1/2" Diameter x 8' Long Copper-Clad Ground Rods	111.66	101.61
26 05 26 00-0098	EA	5/8" Diameter x 8' Long Copper-Clad Ground Rods	115.88	101.61
26 05 26 00-0099	EA	3/4" Diameter x 8' Long Copper-Clad Ground Rods	132.89	101.61
26 05 26 00-0100	EA	1/2" Diameter x 10' Long Copper-Clad Ground Rods	131.12	101.61
26 05 26 00-0101	EA	5/8" Diameter x 10' Long Copper-Clad Ground Rods	136.39	101.61
26 05 26 00-0102	EA	3/4" Diameter x 10' Long Copper-Clad Ground Rods	157.66	101.61
26 05 26 00-0103 Copper Grounding Shaft (26 05 26 00-0095)				
26 05 26 00-0104	EA	2-1/8" Diameter x 10' Long Copper Grounding Shaft	384.75	101.61
26 05 26 00-0105	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft	478.50	101.61
26 05 26 00-0106	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft	741.32	101.61
26 05 26 00-0107 Ground Access Wells (26 05 26 00-0095)				
26 05 26 00-0108 Precast Ground Access Wells (26 05 26 00-0107)				
26 05 26 00-0109	EA	8" Diameter x 24" Deep Precast Ground Access Well	307.40	
		Note: With cast iron grate.		
26 05 26 00-0110	EA	10" Diameter x 24" Deep Precast Ground Access Well	318.90	
		Note: With cast iron grate.		
26 05 26 00-0111	EA	12" Diameter x 24" Deep Precast Ground Access Well	920.06	
		Note: With cast iron grate.		
26 05 26 00-0112	EA	18" Diameter x 24" Deep Precast Ground Access Well	931.57	
		Note: With cast iron grate.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION			UNIT COST		UNIT COST	
26 05 26 00-0113 Polyvinyl Chloride (PVC) Ground Access Well (26 05 26 00-0107)						
26 05 26 00-0114	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	599.81			
26 05 26 00-0115	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	730.06			
26 05 26 00-0116	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	1,602.80			
26 05 26 00-0117	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	455.44			
26 05 26 00-0118	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	550.51			
26 05 26 00-0119	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	1,434.16			
26 05 26 00-0120	EA	8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	262.84			
26 05 26 00-0121	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	360.81			
26 05 26 00-0122	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	429.19			
26 05 26 00-0123	EA	8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	214.32			
26 05 26 00-0124	EA	10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	332.90			
26 05 26 00-0125	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	497.27			
26 05 26 00-0126	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	685.00			
26 05 26 00-0127	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	476.64			
26 05 26 00-0128	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	512.73			
26 05 26 00-0129	EA	10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	915.23			
26 05 26 00-0130	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	1,155.72			
26 05 26 00-0131	EA	12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	510.03			
26 05 26 00-0132	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	694.88			
26 05 26 00-0133	EA	12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	686.84			
26 05 26 00-0134 Polymer Concrete Ground Access Well (26 05 26 00-0107)						
26 05 26 00-0135	EA	12" x 12" x 12" Polymer Concrete Ground Access Well	580.81			
26 05 26 00-0136	EA	12" x 12" x 12" Heavy-Duty Polymer Concrete Ground Access Well	637.03			
26 05 26 00-0137	EA	12" x 12" x 18" Polymer Concrete Ground Access Well	639.91			
26 05 26 00-0138	EA	12" x 12" x 18" Heavy-Duty Polymer Concrete Ground Access Well	701.75			
26 05 26 00-0139	EA	12" x 12" x 24" Polymer Concrete Ground Access Well	701.26			
26 05 26 00-0140	EA	12" x 12" x 24" Heavy-Duty Polymer Concrete Ground Access Well	769.27			
26 05 26 00-0141	EA	13" x 24" x 18" Polymer Concrete Ground Access Well	935.11			
26 05 26 00-0142	EA	13" x 24" x 18" Heavy-Duty Polymer Concrete Ground Access Well	1,027.82			
26 05 26 00-0143 High-Density Polyethylene (HDPE) Ground Access Well (26 05 26 00-0107)						
26 05 26 00-0144	EA	9" Diameter x 10" Deep High-Density Polyethylene (HDPE) Ground Access Well Note: With cover.	212.45			
26 05 26 00-0145	EA	14" Diameter x 18" Deep High-Density Polyethylene (HDPE) Ground Access Well Note: With cover.	295.91			
26 05 26 00-0146 Clay Tile Ground Access Wells (26 05 26 00-0107)						
26 05 26 00-0147	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover	335.59			
26 05 26 00-0148	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover	352.77			
26 05 26 00-0149	EA	Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well	106.71			
26 05 26 00-0150 Ground Rod Clamps And Fittings (26 05 26)						
26 05 26 00-0151 Bronze Ground Rod Clamp (26 05 26 00-0150)						
26 05 26 00-0152	EA	1/2" Bronze Ground Rod Clamp	26.29		15.31	
26 05 26 00-0153	EA	5/8" Bronze Ground Rod Clamp	27.35		15.31	
26 05 26 00-0154	EA	3/4" Bronze Ground Rod Clamp	28.86		15.31	
26 05 26 00-0155 Bronze Pipe Clamps (26 05 26 00-0150)						
26 05 26 00-0156	EA	1/2" To 1" Diameter, Bronze Pipe Ground Clamps	35.04		25.47	
26 05 26 00-0157	EA	1-1/4" To 2" Diameter, Bronze Ground Clamps For Pipe.....	43.23		30.48	
26 05 26 00-0158	EA	2-1/2" To 3" Diameter, Bronze Ground Clamps For Pipe.....	57.16		35.63	
26 05 26 00-0159	EA	2-1/2" To 4" Diameter, Bronze Ground Clamps For Pipe.....	71.54		45.80	
26 05 26 00-0160	EA	4" To 6" Diameter, Bronze Ground Clamps For Pipe.....	106.62		66.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0161 Grounding Fittings (26 05 26 00-0150)		
26 05 26 00-0162 Embedded Fittings (26 05 26 00-0161)		
26 05 26 00-0163 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	176.82	
26 05 26 00-0164 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	186.45	
26 05 26 00-0165 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded	203.54	
26 05 26 00-0166 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice	177.71	
26 05 26 00-0167 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice	212.98	
26 05 26 00-0168 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice	249.64	
26 05 26 00-0169 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice	280.92	
26 05 26 00-0170 Ground Rod Receptacle (26 05 26 00-0161)		
26 05 26 00-0171 EA 1/2" Ground Rod Receptacle	380.03	140.90
26 05 26 00-0172 EA 5/8" Ground Rod Receptacle	396.40	144.87
26 05 26 00-0173 EA 3/4" Ground Rod Receptacle	413.17	148.81
26 05 26 00-0174 Ground Kits For Circuit Breaker Panels (26 05 26 00-0161)		
26 05 26 00-0175 EA 14-8 AWG Copper Ground Kit	85.88	33.87
26 05 26 00-0176 EA 12-8 AWG Aluminum Ground Kit	76.58	33.87
26 05 26 00-0177 EA 14-4 AWG Copper Ground Kit	93.98	33.87
26 05 26 00-0178 EA 12-4 AWG Aluminum Ground Kit	82.77	33.87
26 05 26 00-0179 Insulated Grounding Bars (26 05 26 00-0150)		
26 05 26 00-0180 EA 1/2" x 4" x 10" Insulated Ground Bar	345.68	34.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		60.96
26 05 26 00-0181 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20"	361.32	34.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		60.96
26 05 26 00-0182 Ground Conductor Bonding (26 05 26)		
26 05 26 00-0183 Ground Conductor Bonding (26 05 26 00-0182)		
26 05 26 00-0184 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0183)		
26 05 26 00-0185 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	156.47	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0186 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	170.02	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0187 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	183.56	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0188 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	264.84	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0189 Tee, Wye Or Cross Cadweld (26 05 26 00-0183)		
26 05 26 00-0190 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross	176.79	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0191 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross	203.88	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0192 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross	251.30	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0193 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross	305.48	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0194 Grounding Equipment (26 05 26)		
26 05 26 00-0195 Special Grounding Equipment (26 05 26 00-0194)		
26 05 26 00-0196 Ground Reels And Ground Bus (26 05 26 00-0195)		
26 05 26 00-0197 EA Ground Reel With 50' Of Galvanized Steel Cable	761.55	
26 05 26 00-0198 Copper Bars (26 05 26 00-0195)		
26 05 26 00-0199 LF 1/4" x 2" Copper Bar	44.79	
26 05 26 00-0200 Phenolic Insulators (26 05 26 00-0195)		
26 05 26 00-0201 EA 2" x 2" x 1" Long Phenolic Insulators	34.36	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.13
26 05 26 00-0202 Grounding Studs (26 05 26 00-0195)		
26 05 26 00-0203 EA Ball Grounding Stud	49.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		12.13
26 05 26 00-0204 Equipment Ground Bar Kits (26 05 26 00-0195)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0205 EA Switch Rating 30 Ground Bar Kit 37.99 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.13		
26 05 26 00-0206 EA Switch Rating 60 Ground Bar Kit 47.73 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.94		
26 05 26 00-0207 EA Switch Rating 100 Ground Bar Kit 55.47 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 10.16		
26 05 26 00-0208 EA Switch Rating 200 Ground Bar Kit 93.23 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 12.19		
26 05 26 00-0209 Panelboard Ground Bar Kits (26 05 26 00-0195)		
26 05 26 00-0210 EA Panelboard Ground Bar Kit 131.01 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 10.16		10.16
26 05 26 00-0211 Circuit Breaker Ground Bar Kits (26 05 26 00-0195)		
26 05 26 00-0212 EA 3 Circuit, Ground Bar Kit 31.21 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.10		6.10
26 05 26 00-0213 EA 4 Circuit, Ground Bar Kit 30.70 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.10		6.10
26 05 26 00-0214 EA 7 Circuit, Ground Bar Kit 31.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.10		6.10
26 05 26 00-0215 EA 12 Circuit, Ground Bar Kit 35.76 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.91		6.91
26 05 26 00-0216 EA 20 Circuit, Ground Bar Kit 40.65 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 7.72		7.72
26 05 26 00-0217 EA 24 Circuit, Ground Bar Kit 44.86 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.54		8.54
26 05 26 00-0218 EA 30 Circuit, Ground Bar Kit 50.27 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.76		9.76
26 05 26 00-0219 EA 54 Circuit, Ground Bar Kit 58.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 11.38		11.38
26 05 26 00-0220 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug 61.78 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 8.54		8.54
26 05 26 00-0221 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug 68.53 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 9.76		9.76
26 05 26 00-0222 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug 76.62 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 11.38		11.38
26 05 29 Hangers and Supports for Electrical Systems (26 05)		
26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29) See CSI section 05 43 00 00-0001 for additional unistrut fittings.		
26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001) Note: Excludes fasteners and accessories.		
26 05 29 00-0003 Steel Unistrut Channel (26 05 29 00-0002)		
26 05 29 00-0004 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel 22.43 <i>For Galvanizing, Add</i> 1.08 <i>For Powder Coating, Add</i> 0.95		7.43
26 05 29 00-0005 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel 32.50 <i>For Galvanizing, Add</i> 2.16 <i>For Powder Coating, Add</i> 1.90		9.90
26 05 29 00-0006 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel 42.55 <i>For Galvanizing, Add</i> 3.24 <i>For Powder Coating, Add</i> 2.85		11.76
26 05 29 00-0007 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel 52.61 <i>For Galvanizing, Add</i> 4.31 <i>For Powder Coating, Add</i> 3.81		13.62
26 05 29 00-0008 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel 11.93 <i>For Galvanizing, Add</i> 1.08 <i>For Powder Coating, Add</i> 0.95		2.79
26 05 29 00-0009 EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel 24.38 <i>For Galvanizing, Add</i> 1.41 <i>For Powder Coating, Add</i> 1.24		7.43
26 05 29 00-0010 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel 36.39 <i>For Galvanizing, Add</i> 2.82 <i>For Powder Coating, Add</i> 2.49		9.90
26 05 29 00-0011 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel 48.39 <i>For Galvanizing, Add</i> 4.23 <i>For Powder Coating, Add</i> 3.73		11.76
26 05 29 00-0012 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel 60.39 <i>For Galvanizing, Add</i> 5.64 <i>For Powder Coating, Add</i> 4.97		13.62
26 05 29 00-0013 LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel 13.88 <i>For Galvanizing, Add</i> 1.41 <i>For Powder Coating, Add</i> 1.24		2.79
26 05 29 00-0014 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel 26.40 <i>For Galvanizing, Add</i> 1.75 <i>For Powder Coating, Add</i> 1.55		7.43
26 05 29 00-0015 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel 40.43 <i>For Galvanizing, Add</i> 3.51 <i>For Powder Coating, Add</i> 3.09		9.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0016 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	54.46 5.26 4.64	11.76
26 05 29 00-0017 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	68.48 7.01 6.19	13.62
26 05 29 00-0018 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel..... For Galvanizing, Add For Powder Coating, Add	15.90 1.75 1.55	2.79
26 05 29 00-0019 EA Up To 1' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	25.72 1.64 1.44	7.43
26 05 29 00-0020 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	39.06 3.27 2.89	9.90
26 05 29 00-0021 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	52.40 4.91 4.33	11.76
26 05 29 00-0022 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	65.74 6.55 5.78	13.62
26 05 29 00-0023 LF >4' Cut Lengths x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	15.22 1.64 1.44	2.79
26 05 29 00-0024 EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	25.27 1.56 1.38	7.43
26 05 29 00-0025 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	38.17 3.12 2.75	9.90
26 05 29 00-0026 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	51.07 4.68 4.13	11.76
26 05 29 00-0027 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	63.96 6.24 5.51	13.62
26 05 29 00-0028 LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	14.77 1.56 1.38	2.79
26 05 29 00-0029 Stainless Steel Unistrut Channel (26 05 29 00-0002)		
26 05 29 00-0030 304 Stainless Steel Unistrut Channel (26 05 29 00-0029)		
26 05 29 00-0031 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0032 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0033 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0034 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0035 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0036 EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0037 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0038 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0039 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0040 LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0041 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0042 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0043 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0044 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0045 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0046 EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0047 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0048 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0049 EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel 26 05 29 00-0050 LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	36.21 60.04 83.87 107.70 25.70 39.90 67.43 94.95 122.48 29.39 41.12 69.88 98.62 127.37 30.62 47.49 82.62 117.73 152.85 36.99	7.43 9.90 11.76 13.62 2.80 7.43 9.90 11.76 13.62 2.80 7.43 9.90 11.76 13.62 2.79 7.43 9.90 11.76 13.62 2.79
26 05 29 00-0051 316 Stainless Steel Unistrut Channel (26 05 29 00-0029)		
26 05 29 00-0052 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel 26 05 29 00-0053 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel 26 05 29 00-0054 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel 26 05 29 00-0055 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel 26 05 29 00-0056 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	52.15 91.94 131.71 171.48 41.64	7.43 9.90 11.76 13.62 2.80
26 05 29 00-0057 Aluminum Unistrut Channel (26 05 29 00-0002)		
26 05 29 00-0058 EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0059 EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0060 EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0061 EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0062 LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel 26 05 29 00-0063 EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel 26 05 29 00-0064 EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel 26 05 29 00-0065 EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel	21.29 30.21 39.11 48.02 10.79 24.69 37.00 49.31	7.43 9.90 11.76 13.62 2.79 7.43 9.90 11.76

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0066	EA	>3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel.....	61.61	13.62
26 05 29 00-0067	LF	>4' Cut lengths x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel.....	14.19	2.79
26 05 29 00-0068		Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0069		Unistrut Channel Closure Strips And Caps (26 05 29 00-0068)		
26 05 29 00-0070		Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0069)		
26 05 29 00-0071	LF	Steel Raceway Closure Strip, Unistrut Channel Fittings.....	9.25	0.68
26 05 29 00-0072	EA	Steel End Cap, Unistrut Channel Fittings.....	6.50	1.70
26 05 29 00-0073		Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0069)		
26 05 29 00-0074	EA	Stainless Steel End Cap For Unistrut Channel	12.94	1.70
26 05 29 00-0075		Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0076		Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0075)		
26 05 29 00-0077	EA	2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	8.86	
26 05 29 00-0078	EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	8.80	
26 05 29 00-0079	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	10.84	
26 05 29 00-0080		Stainless Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0075)		
26 05 29 00-0081	EA	2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	18.13	
26 05 29 00-0082	EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	26.80	
26 05 29 00-0083	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	34.13	
26 05 29 00-0084		90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0085		Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0084)		
26 05 29 00-0086	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting	8.56	
26 05 29 00-0087	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting	7.06	
26 05 29 00-0088	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	12.63	
26 05 29 00-0089	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	12.45	
26 05 29 00-0090		Stainless Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0084)		
26 05 29 00-0091	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	10.54	
26 05 29 00-0092	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	13.08	
26 05 29 00-0093	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	11.15	
26 05 29 00-0094	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	15.68	
26 05 29 00-0095	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	14.37	
26 05 29 00-0096	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	26.20	
26 05 29 00-0097	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	15.08	
26 05 29 00-0098	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	21.71	
26 05 29 00-0099		60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0100		Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0099)		
26 05 29 00-0101	EA	2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	18.32	
26 05 29 00-0102		U-Connector, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0103		Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0102)		
26 05 29 00-0104	EA	3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	6.09	
26 05 29 00-0105	EA	5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting	6.86	
26 05 29 00-0106		Stainless Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0102)		
26 05 29 00-0107	EA	5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting.....	21.56	
26 05 29 00-0108		Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0109		Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0108)		
26 05 29 00-0110	EA	3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting	18.82	
26 05 29 00-0111		Stainless Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0108)		
26 05 29 00-0112	EA	3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	41.58	
26 05 29 00-0113		Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0068)		
		Note: Includes hex screw and nut.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0114 Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0113) Note: Includes hex screw and nut.		
26 05 29 00-0115 EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.26	2.04
26 05 29 00-0116 EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.29	2.04
26 05 29 00-0117 EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.47	2.04
26 05 29 00-0118 EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.07	2.71
26 05 29 00-0119 EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.96	2.71
26 05 29 00-0120 EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.05	2.71
26 05 29 00-0121 EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.04	3.40
26 05 29 00-0122 EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.83	3.40
26 05 29 00-0123 EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.59	3.40
26 05 29 00-0124 EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.87	3.40
26 05 29 00-0125 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0113) Note: Includes hex screw and nut.		
26 05 29 00-0126 EA 1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.72	2.04
26 05 29 00-0127 EA 3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.69	2.04
26 05 29 00-0128 EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.65	2.04
26 05 29 00-0129 EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.28	2.71
26 05 29 00-0130 EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	15.97	2.71
26 05 29 00-0131 EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.67	2.71
26 05 29 00-0132 EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.04	3.40
26 05 29 00-0133 EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	22.43	3.40
26 05 29 00-0134 EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.45	3.40
26 05 29 00-0135 EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	27.24	3.40
26 05 29 00-0136 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0113) Note: Includes hex screw and nut.		
26 05 29 00-0137 EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.31	2.04
26 05 29 00-0138 EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.67	2.04
26 05 29 00-0139 EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.06	2.04
26 05 29 00-0140 EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.47	2.71
26 05 29 00-0141 EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.17	2.71
26 05 29 00-0142 EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.40	2.71
26 05 29 00-0143 EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	21.85	3.40
26 05 29 00-0144 EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.06	3.40
26 05 29 00-0145 EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	31.71	3.40
26 05 29 00-0146 EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	37.00	3.40
26 05 29 00-0147 Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0148 Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0147)		
26 05 29 00-0149 EA Set Screw Beam Clamp, Steel Unistrut Channel Fitting.....	47.75	12.38
26 05 29 00-0150 EA "C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings.....	30.04	12.38
26 05 29 00-0151 EA "U" Bolt Beam Clamp, Steel Unistrut Channel Fitting.....	45.96	12.38
26 05 29 00-0152 304 Stainless Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0147)		
26 05 29 00-0153 EA "U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	53.38	12.38
26 05 29 00-0154 Square Washers For Unistrut Channel (26 05 29 00-0068)		
26 05 29 00-0155 Steel Square Washers For Unistrut Channel (26 05 29 00-0154)		
26 05 29 00-0156 EA 1/2" Bolt Size, Steel, Square Washer For Unistrut Channel.....	6.18	
26 05 29 00-0157 Stainless Steel Square Washers For Unistrut Channel (26 05 29 00-0154)		
26 05 29 00-0158 EA 1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel.....	5.36	
26 05 29 00-0159 EA 1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel.....	6.68	
26 05 29 00-0160 Strut Braces, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0161 EA 16" Diagonal Steel Bar Brace For Unistrut Channel.....	52.74	
26 05 29 00-0162 Trolley Hangers, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0163 EA Steel Trolley Track Hanger For Unistrut Channel.....	65.26	
26 05 29 00-0164 Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0068) Note: Includes hex bolt.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0165		Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0164) Note: Includes hex bolt.		
26 05 29 00-0166	EA	1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	9.83	
26 05 29 00-0167	EA	3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	10.91	
26 05 29 00-0168	EA	1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	11.72	
26 05 29 00-0169	EA	5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	16.10	
26 05 29 00-0170		Stainless Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0164) Note: Includes hex bolt.		
26 05 29 00-0171	EA	1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	15.40	
26 05 29 00-0172	EA	3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	16.47	
26 05 29 00-0173	EA	1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	23.00	
26 05 29 00-0174	EA	5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	37.30	
26 05 29 00-0175		Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0068) Note: Includes hex bolt.		
26 05 29 00-0176		Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0175) Note: Includes hex bolt.		
26 05 29 00-0177	EA	1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	9.86	
26 05 29 00-0178	EA	3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	11.06	
26 05 29 00-0179	EA	1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	11.78	
26 05 29 00-0180	EA	5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	17.36	
26 05 29 00-0181		Stainless Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0175) Note: Includes hex bolt.		
26 05 29 00-0182	EA	1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	11.43	
26 05 29 00-0183	EA	3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	13.67	
26 05 29 00-0184	EA	1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	15.10	
26 05 29 00-0185	EA	5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	36.37	
26 05 29 00-0186		Mounting Assemblies (26 05 29)		
26 05 29 00-0187		Galvanized Steel Mounting Assemblies (26 05 29 00-0186)		
26 05 29 00-0188		Galvanized Steel Back Plate (26 05 29 00-0187)		
26 05 29 00-0189	EA	1/4" x 4' x 4', Galvanized Steel Back Plate, Painted.....	595.68	81.29
26 05 29 00-0190	EA	3/8" x 14" x 16", Galvanized Steel Back Plate, Painted.....	146.27	27.10
26 05 29 00-0191	EA	3/16" x 30" x 48", Galvanized Steel Back Plate, Painted.....	370.47	67.74
26 05 29 00-0192		Aluminum Mounting Assemblies (26 05 29 00-0186)		
26 05 29 00-0193		Aluminum Back Plate (26 05 29 00-0192)		
26 05 29 00-0194	EA	3/16" x 2' x 2' Aluminum Back Plate.....	575.07	101.61
26 05 29 00-0195	EA	3/16" x 4' x 4' Aluminum Back Plate.....	1,706.34	101.61
26 05 29 00-0196		Supports (26 05 29)		
26 05 29 00-0197		One Hole Steel Conduit Straps (26 05 29 00-0196)		
26 05 29 00-0198	EA	1/2", One Hole Steel Conduit Strap.....	5.00	
		For Work In Restricted Working Space, Add.....	1.30	
		For Installation On Concrete (Includes Drilling And Fastener), Add.....	1.18	
		For >50 To 100, Deduct.....	-0.23	
		For >100 To 250, Deduct.....	-0.47	
		For >250 To 500, Deduct.....	-0.92	
		For >500, Deduct.....	-1.37	
26 05 29 00-0199	EA	3/4", One Hole Steel Conduit Strap.....	5.07	
		For Work In Restricted Working Space, Add.....	1.30	
		For Installation On Concrete (Includes Drilling And Fastener), Add.....	1.18	
		For >50 To 100, Deduct.....	-0.24	
		For >100 To 250, Deduct.....	-0.47	
		For >250 To 500, Deduct.....	-0.92	
		For >500, Deduct.....	-1.37	
26 05 29 00-0200	EA	1", One Hole Steel Conduit Strap.....	5.46	
		For Work In Restricted Working Space, Add.....	1.30	
		For Installation On Concrete (Includes Drilling And Fastener), Add.....	1.18	
		For >50 To 100, Deduct.....	-0.24	
		For >100 To 250, Deduct.....	-0.49	
		For >250 To 500, Deduct.....	-0.95	
		For >500, Deduct.....	-1.41	
26 05 29 00-0201	EA	1-1/4", One Hole Steel Conduit Strap.....	5.75	
		For Work In Restricted Working Space, Add.....	1.30	
		For Installation On Concrete (Includes Drilling And Fastener), Add.....	1.18	
		For >50 To 100, Deduct.....	-0.25	
		For >100 To 250, Deduct.....	-0.50	
		For >250 To 500, Deduct.....	-0.97	
		For >500, Deduct.....	-1.44	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0202	EA	1-1/2"	One Hole Steel Conduit Strap 5.94		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.99	
			For >500, Deduct	-1.46	
26 05 29 00-0203	EA	2"	One Hole Steel Conduit Strap 7.12		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-1.08	
			For >500, Deduct	-1.58	
26 05 29 00-0204	EA	2-1/2"	One Hole Steel Conduit Strap 8.33		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.63	
			For >250 To 500, Deduct	-1.17	
			For >500, Deduct	-1.70	
26 05 29 00-0205	EA	3"	One Hole Steel Conduit Strap 8.73		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.20	
			For >500, Deduct	-1.74	
26 05 29 00-0206	EA	3-1/2"	One Hole Steel Conduit Strap 10.71		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.38	
			For >100 To 250, Deduct	-0.75	
			For >250 To 500, Deduct	-1.34	
			For >500, Deduct	-1.94	
26 05 29 00-0207	EA	4"	One Hole Steel Conduit Strap 12.29		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-2.10	
26 05 29 00-0208 One Hole Iron Conduit Straps (26 05 29 00-0196)					
26 05 29 00-0209	EA	1/2"	One Hole Iron Conduit Strap 5.19		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.39	
26 05 29 00-0210	EA	3/4"	One Hole Iron Conduit Strap 5.38		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.94	
			For >500, Deduct	-1.40	
26 05 29 00-0211	EA	1"	One Hole Iron Conduit Strap 5.72		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.97	
			For >500, Deduct	-1.44	
26 05 29 00-0212	EA	1-1/4"	One Hole Iron Conduit Strap 6.54		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.52	
26 05 29 00-0213	EA	1-1/2"	One Hole Iron Conduit Strap 6.87		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.06	
			For >500, Deduct	-1.55	
26 05 29 00-0214	EA	2"	One Hole Iron Conduit Strap 8.96		
			For Work In Restricted Working Space, Add	1.30	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.21	
			For >500, Deduct	-1.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0215 EA 2-1/2", One Hole Iron Conduit Strap 13.44		
For Work In Restricted Working Space, Add	1.30	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.44	
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-2.21	
26 05 29 00-0216 EA 3", One Hole Iron Conduit Strap 17.18		
For Work In Restricted Working Space, Add	1.30	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.54	
For >100 To 250, Deduct	-1.08	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.58	
26 05 29 00-0217 EA 3-1/2", One Hole Iron Conduit Strap 22.65		
For Work In Restricted Working Space, Add	1.30	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.67	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-3.13	
26 05 29 00-0218 EA 4", One Hole Iron Conduit Strap 44.53		
For Work In Restricted Working Space, Add	1.30	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-1.22	
For >100 To 250, Deduct	-2.44	
For >250 To 500, Deduct	-3.88	
For >500, Deduct	-5.32	
26 05 29 00-0219 EA 5", One Hole Iron Conduit Strap 56.29		
For Work In Restricted Working Space, Add	1.30	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-1.52	
For >100 To 250, Deduct	-3.03	
For >250 To 500, Deduct	-4.76	
For >500, Deduct	-6.50	
26 05 29 00-0220 Two Hole Steel Conduit Straps (26 05 29 00-0196)		
26 05 29 00-0221 EA 1/2", Two Hole Steel Conduit Strap 5.74		
For Work In Restricted Working Space, Add	1.46	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-1.04	
For >500, Deduct	-1.55	
26 05 29 00-0222 EA 3/4", Two Hole Steel Conduit Strap 5.87		
For Work In Restricted Working Space, Add	1.46	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.54	
For >250 To 500, Deduct	-1.05	
For >500, Deduct	-1.56	
26 05 29 00-0223 EA 1", Two Hole Steel Conduit Strap 5.93		
For Work In Restricted Working Space, Add	1.46	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.54	
For >250 To 500, Deduct	-1.05	
For >500, Deduct	-1.57	
26 05 29 00-0224 EA 1-1/4", Two Hole Steel Conduit Strap 6.03		
For Work In Restricted Working Space, Add	1.46	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-1.06	
For >500, Deduct	-1.58	
26 05 29 00-0225 EA 1-1/2", Two Hole Steel Conduit Strap 6.09		
For Work In Restricted Working Space, Add	1.46	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-1.07	
For >500, Deduct	-1.58	
26 05 29 00-0226 EA 2", Two Hole Steel Conduit Strap 6.26		
For Work In Restricted Working Space, Add	1.46	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-1.08	
For >500, Deduct	-1.60	
26 05 29 00-0227 EA 2-1/2", Two Hole Steel Conduit Strap 7.16		
For Work In Restricted Working Space, Add	1.46	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.15	
For >500, Deduct	-1.69	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0228	EA		3", Two Hole Steel Conduit Strap 7.35		
			For Work In Restricted Working Space, Add	1.46	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.16	
			For >500, Deduct	-1.71	
26 05 29 00-0229	EA		3-1/2", Two Hole Steel Conduit Strap 8.06		
			For Work In Restricted Working Space, Add	1.46	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.21	
			For >500, Deduct	-1.78	
26 05 29 00-0230	EA		4", Two Hole Steel Conduit Strap 8.54		
			For Work In Restricted Working Space, Add	1.46	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.25	
			For >500, Deduct	-1.83	
26 05 29 00-0231	EA		5", Two Hole Steel Conduit Strap 9.19		
			For Work In Restricted Working Space, Add	1.46	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.42	
			For >50 To 100, Deduct	-0.35	
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.30	
			For >500, Deduct	-1.89	
26 05 29 00-0232			Clamp Back Spacers (26 05 29 00-0196)		
26 05 29 00-0233	EA		1/2" Conduit, Clamp Back Spacer 4.74		
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.78	
			For >500, Deduct	-1.15	
26 05 29 00-0234	EA		3/4" Conduit, Clamp Back Spacer 5.22		
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.20	
26 05 29 00-0235	EA		1" Conduit, Clamp Back Spacer 5.66		
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.24	
26 05 29 00-0236	EA		1-1/4" Conduit, Clamp Back Spacer 7.38		
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.98	
			For >500, Deduct	-1.42	
26 05 29 00-0237	EA		1-1/2" Conduit, Clamp Back Spacer 8.77		
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.08	
			For >500, Deduct	-1.56	
26 05 29 00-0238	EA		2" Conduit, Clamp Back Spacer 10.22		
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.19	
			For >500, Deduct	-1.70	
26 05 29 00-0239	EA		2-1/2" Conduit, Clamp Back Spacer 16.14		
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-0.49	
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-2.29	
26 05 29 00-0240	EA		3" Conduit, Clamp Back Spacer 23.20		
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-0.66	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-3.00	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0241	EA		3-1/2" Conduit, Clamp Back Spacer	30.06	
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-0.84	
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.68	
			For >500, Deduct	-3.68	
26 05 29 00-0242	EA		4" Conduit, Clamp Back Spacer	62.28	
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-1.64	
			For >100 To 250, Deduct	-3.28	
			For >250 To 500, Deduct	-5.09	
			For >500, Deduct	-6.91	
26 05 29 00-0243	EA		5" Conduit, Clamp Back Spacer	116.68	
			For Work In Restricted Working Space, Add	1.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.95	
			For >50 To 100, Deduct	-3.00	
			For >100 To 250, Deduct	-6.00	
			For >250 To 500, Deduct	-9.17	
			For >500, Deduct	-12.35	
26 05 29 00-0244 Conduit Clips (26 05 29 00-0196)					
			Note: Push in or clip.		
26 05 29 00-0245	EA		1/2" Conduit Clip	5.56	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.96	
			For >500, Deduct	-1.42	
26 05 29 00-0246	EA		3/4" Conduit Clip	5.56	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.96	
			For >500, Deduct	-1.42	
26 05 29 00-0247	EA		1" Conduit Clip	5.46	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.95	
			For >500, Deduct	-1.41	
26 05 29 00-0248	EA		1-1/4" Conduit Clip	5.70	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.97	
			For >500, Deduct	-1.44	
26 05 29 00-0249 Bolt And Nut Conduit Clips (26 05 29 00-0196)					
26 05 29 00-0250	EA		3/4" Bolt And Nut Conduit Clip (Minerallac 1B)	6.91	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.46	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.62	
			For >250 To 500, Deduct	-1.20	
			For >500, Deduct	-1.78	
26 05 29 00-0251	EA		1" Bolt And Nut Conduit Clip (Minerallac 2B)	7.15	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.46	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.63	
			For >250 To 500, Deduct	-1.21	
			For >500, Deduct	-1.80	
26 05 29 00-0252	EA		1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B)	7.62	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.29	
			For >500, Deduct	-1.91	
26 05 29 00-0253	EA		1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B)	7.76	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.30	
			For >500, Deduct	-1.93	
26 05 29 00-0254	EA		2" Bolt And Nut Conduit Clip (Minerallac 5B)	8.67	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.37	
			For >500, Deduct	-2.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0255	EA		2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	9.39	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.63	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-2.16	
26 05 29 00-0256	EA		3" Bolt And Nut Conduit Clip (Minerallac 7B).....	10.20	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.63	
			For >50 To 100, Deduct	-0.41	
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.53	
			For >500, Deduct	-2.24	
26 05 29 00-0257	EA		4" Bolt And Nut Conduit Clip (Minerallac 9B).....	18.47	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.79	
			For >50 To 100, Deduct	-0.63	
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-3.20	
26 05 29 00-0258 Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0196)					
Note: Bat wing.					
26 05 29 00-0259	EA		1/2", Conduit Hanger From Flange, Wire Or Rod	4.02	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.05	
26 05 29 00-0260	EA		3/4", Conduit Hanger From Flange, Wire Or Rod	4.08	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.06	
26 05 29 00-0261	EA		1", Conduit Hanger From Flange, Wire Or Rod	4.27	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.38	
			For >250 To 500, Deduct	-0.73	
			For >500, Deduct	-1.08	
26 05 29 00-0262	EA		1-1/4", Conduit Hanger From Flange, Wire Or Rod	4.72	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.76	
			For >500, Deduct	-1.12	
26 05 29 00-0263 Beam Flange Clamps (26 05 29 00-0196)					
Note: For threaded rod, nut not required.					
26 05 29 00-0264	EA		1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24)	5.94	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.87	
			For >500, Deduct	-1.27	
26 05 29 00-0265	EA		5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58)	5.82	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.86	
			For >500, Deduct	-1.26	
26 05 29 00-0266	EA		9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912)	6.53	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.91	
			For >500, Deduct	-1.33	
26 05 29 00-0267 T-Bar Support Clips (26 05 29 00-0196)					
26 05 29 00-0268	EA		9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	9.86	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-2.34	
26 05 29 00-0269	EA		15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	9.32	
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-2.29	
26 05 29 00-0270	EA		15/16" Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	3.59	
			For >50 To 100, Deduct	-0.13	
			For >100 To 250, Deduct	-0.26	
			For >250 To 500, Deduct	-0.48	
			For >500, Deduct	-0.70	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0271 EA 24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512).....	29.99	
For >50 To 100, Deduct	-0.82	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.59	
For >500, Deduct	-3.54	
26 05 29 00-0272 Switch And Outlet Box Type Supports (26 05 29 00-0196)		
26 05 29 00-0273 EA 1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS)	7.37	
For >50 To 100, Deduct	-0.25	
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-0.89	
For >500, Deduct	-1.28	
26 05 29 00-0274 EA 1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	6.22	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.81	
For >500, Deduct	-1.16	
26 05 29 00-0275 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO)	7.21	
For >50 To 100, Deduct	-0.25	
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-0.88	
For >500, Deduct	-1.26	
26 05 29 00-0276 EA Snap On, Switch And Outlet Box Support (Caddy MSF)	4.58	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.00	
26 05 29 00-0277 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI).....	4.79	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.70	
For >500, Deduct	-1.02	
26 05 29 00-0278 Lighting Fixture Hanger (26 05 29 00-0196)		
Note: For existing or owner furnished fixtures.		
26 05 29 00-0279 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515).....	6.54	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.17	
For >500, Deduct	-1.74	
26 05 29 00-0280 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	23.56	
For >50 To 100, Deduct	-0.72	
For >100 To 250, Deduct	-1.45	
For >250 To 500, Deduct	-2.44	
For >500, Deduct	-3.44	
26 05 29 00-0281 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520)	32.51	
For >50 To 100, Deduct	-0.95	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-3.12	
For >500, Deduct	-4.34	
26 05 29 00-0282 Rigid Steel Conduit Clamps For Unistrut Channel (26 05 29 00-0196)		
26 05 29 00-0283 EA 1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.25	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.98	
For >500, Deduct	-1.44	
For Work In Restricted Working Space, Add	1.22	
26 05 29 00-0284 EA 3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.28	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.98	
For >500, Deduct	-1.44	
For Work In Restricted Working Space, Add	1.22	
26 05 29 00-0285 EA 1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.46	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.99	
For >500, Deduct	-1.46	
For Work In Restricted Working Space, Add	1.22	
26 05 29 00-0286 EA 1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	8.06	
For >50 To 100, Deduct	-0.34	
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.28	
For >500, Deduct	-1.89	
For Work In Restricted Working Space, Add	1.63	
26 05 29 00-0287 EA 1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	8.95	
For >50 To 100, Deduct	-0.36	
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.35	
For >500, Deduct	-1.98	
For Work In Restricted Working Space, Add	1.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0288	EA		2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.04	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.36	
			For >500, Deduct	-1.99	
			For Work In Restricted Working Space, Add	1.63	
26 05 29 00-0289	EA		2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	11.03	
			For >50 To 100, Deduct	-0.45	
			For >100 To 250, Deduct	-0.89	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.46	
			For Work In Restricted Working Space, Add	2.03	
26 05 29 00-0290	EA		3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	11.82	
			For >50 To 100, Deduct	-0.46	
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.73	
			For >500, Deduct	-2.54	
			For Work In Restricted Working Space, Add	2.03	
26 05 29 00-0291	EA		3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	12.58	
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.61	
			For Work In Restricted Working Space, Add	2.03	
26 05 29 00-0292	EA		4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	12.86	
			For >50 To 100, Deduct	-0.49	
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.81	
			For >500, Deduct	-2.64	
			For Work In Restricted Working Space, Add	2.03	
26 05 29 00-0293 Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel (26 05 29 00-0196)					
26 05 29 00-0294	EA		1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.83	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.02	
			For >500, Deduct	-1.50	
			For Work In Restricted Working Space, Add	1.22	
26 05 29 00-0295	EA		3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.76	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.01	
			For >500, Deduct	-1.49	
			For Work In Restricted Working Space, Add	1.22	
26 05 29 00-0296	EA		1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.67	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.01	
			For >500, Deduct	-1.48	
			For Work In Restricted Working Space, Add	1.22	
26 05 29 00-0297	EA		1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	8.77	
			For >50 To 100, Deduct	-0.35	
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.34	
			For >500, Deduct	-1.96	
			For Work In Restricted Working Space, Add	1.63	
26 05 29 00-0298	EA		1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	10.32	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.45	
			For >500, Deduct	-2.12	
			For Work In Restricted Working Space, Add	1.63	
26 05 29 00-0299	EA		2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	10.41	
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-2.13	
			For Work In Restricted Working Space, Add	1.63	
26 05 29 00-0300 "J" Type Conduit Hangers (26 05 29 00-0196)					
26 05 29 00-0301	EA		1/2", "J" Type Conduit Hanger (Unistrut J1205).....	28.27	
			For >50 To 100, Deduct	-0.94	
			For >100 To 250, Deduct	-1.89	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-4.73	
			For Work In Restricted Working Space, Add	2.85	
26 05 29 00-0302	EA		3/4", "J" Type Conduit Hanger (Unistrut J1207).....	28.59	
			For >50 To 100, Deduct	-0.95	
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-3.33	
			For >500, Deduct	-4.76	
			For Work In Restricted Working Space, Add	2.85	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0303 EA 1", "J" Type Conduit Hanger (Unistrut J1210).....	30.25	
For >50 To 100, Deduct	-1.03	
For >100 To 250, Deduct	-2.05	
For >250 To 500, Deduct	-3.62	
For >500, Deduct	-5.19	
For Work In Restricted Working Space, Add	3.25	
26 05 29 00-0304 EA 1-1/4", "J" Type Conduit Hanger (Unistrut J1212).....	30.60	
For >50 To 100, Deduct	-1.04	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-3.65	
For >500, Deduct	-5.23	
For Work In Restricted Working Space, Add	3.25	
26 05 29 00-0305 EA 1-1/2", "J" Type Conduit Hanger (Unistrut J1215).....	32.19	
For >50 To 100, Deduct	-1.11	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-3.94	
For >500, Deduct	-5.66	
For Work In Restricted Working Space, Add	3.66	
26 05 29 00-0306 EA 2", "J" Type Conduit Hanger (Unistrut J1220).....	33.53	
For >50 To 100, Deduct	-1.14	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-4.04	
For >500, Deduct	-5.79	
For Work In Restricted Working Space, Add	3.66	
26 05 29 00-0307 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	53.94	
For >50 To 100, Deduct	-1.69	
For >100 To 250, Deduct	-3.37	
For >250 To 500, Deduct	-5.74	
For >500, Deduct	-8.10	
For Work In Restricted Working Space, Add	4.07	
26 05 29 00-0308 EA 3", "J" Type Conduit Hanger (Unistrut J1230).....	57.30	
For >50 To 100, Deduct	-1.81	
For >100 To 250, Deduct	-3.61	
For >250 To 500, Deduct	-6.16	
For >500, Deduct	-8.71	
For Work In Restricted Working Space, Add	4.47	
26 05 29 00-0309 EA 3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	61.68	
For >50 To 100, Deduct	-1.95	
For >100 To 250, Deduct	-3.90	
For >250 To 500, Deduct	-6.66	
For >500, Deduct	-9.42	
For Work In Restricted Working Space, Add	4.88	
26 05 29 00-0310 EA 4", "J" Type Conduit Hanger (Unistrut J1240).....	82.35	
For >50 To 100, Deduct	-2.47	
For >100 To 250, Deduct	-4.93	
For >250 To 500, Deduct	-8.21	
For >500, Deduct	-11.49	
For Work In Restricted Working Space, Add	4.88	
26 05 29 00-0311 EA 5", "J" Type Conduit Hanger (Unistrut J1250).....	90.49	
For >50 To 100, Deduct	-2.70	
For >100 To 250, Deduct	-5.41	
For >250 To 500, Deduct	-8.99	
For >500, Deduct	-12.57	
For Work In Restricted Working Space, Add	5.28	
26 05 29 00-0312 EA 6", "J" Type Conduit Hanger (Unistrut J1260).....	127.85	
For >50 To 100, Deduct	-3.70	
For >100 To 250, Deduct	-7.41	
For >250 To 500, Deduct	-12.13	
For >500, Deduct	-16.85	
For Work In Restricted Working Space, Add	6.10	

26 05 29 00-0313 Between Studs Box Brackets (26 05 29 00-0196)

26 05 29 00-0314 EA 16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	10.15	
For >50 To 100, Deduct	-0.36	
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.27	
For >500, Deduct	-1.83	
For Work In Restricted Working Space, Add	1.22	
26 05 29 00-0315 EA 24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	12.25	
For >50 To 100, Deduct	-0.41	
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.43	
For >500, Deduct	-2.04	
For Work In Restricted Working Space, Add	1.22	

26 05 29 00-0316 Hangers And Brackets (26 05 29 00-0196)

26 05 29 00-0317 EA Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	3.51	
For >50 To 100, Deduct	-0.16	
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.60	
For >500, Deduct	-0.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0318 EA Angle Bracket Only With 1/4" Hole (Caddy AB).....	3.39	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.59	
For >500, Deduct	-0.88	
26 05 29 00-0319 EA Offset Bracket Only With 1/4" Hole (Caddy AO).....	3.39	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.59	
For >500, Deduct	-0.88	
26 05 29 00-0320 EA Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	4.65	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-1.01	
26 05 29 00-0321 EA Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	4.68	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-1.01	
26 05 29 00-0322 EA Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	4.54	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.00	
26 05 29 00-0323 EA Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	4.65	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-1.01	
26 05 29 00-0324 EA Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	4.68	
For >50 To 100, Deduct	-0.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-1.01	
26 05 29 00-0325 Clips And Accessories (26 05 29 00-0196)		
26 05 29 00-0326 EA 1/2" Diameter Center, Bridle Ring (Caddy 2BR).....	2.39	
For >50 To 100, Deduct	-0.10	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.39	
For >500, Deduct	-0.58	
26 05 29 00-0327 EA 3/4" Diameter Center, Bridle Ring (Caddy 2BR12).....	2.44	
For >50 To 100, Deduct	-0.10	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.39	
For >500, Deduct	-0.58	
26 05 29 00-0328 EA 1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20).....	2.63	
For >50 To 100, Deduct	-0.11	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.41	
For >500, Deduct	-0.60	
26 05 29 00-0329 EA 2" Diameter Center, Bridle Ring (Caddy 2BR32).....	3.02	
For >50 To 100, Deduct	-0.12	
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.44	
For >500, Deduct	-0.64	
26 05 29 00-0330 Wire Ties (26 05 29 00-0196)		
Note: Per hundred (C).		
26 05 29 00-0331 C 3" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	34.33	
For Up To 0.1, Add	28.29	
For >0.1 To 0.25, Add	14.15	
For >0.25 To 0.75, Add	7.07	
For >2.0, Deduct	-2.83	
For UV Black, Add	0.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 29 00-0332 C 4" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	34.56	
For Up To 0.1, Add	28.29	
For >0.1 To 0.25, Add	14.15	
For >0.25 To 0.75, Add	7.07	
For >2.0, Deduct	-2.83	
For UV Black, Add	0.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 29 00-0333 C 4-3/4" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	34.73	
For Up To 0.1, Add	28.29	
For >0.1 To 0.25, Add	14.15	
For >0.25 To 0.75, Add	7.07	
For >2.0, Deduct	-2.83	
For UV Black, Add	0.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0334 C 5-1/2" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	34.80	
For Up To 0.1, Add	28.29	
For >0.1 To 0.25, Add	14.15	
For >0.25 To 0.75, Add	7.07	
For >2.0, Deduct	-2.83	
For UV Black, Add	0.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 29 00-0335 C 6-1/2" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	36.09	
For Up To 0.1, Add	29.51	
For >0.1 To 0.25, Add	14.76	
For >0.25 To 0.75, Add	7.38	
For >2.0, Deduct	-2.95	
For UV Black, Add	0.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.85	
26 05 29 00-0336 C 8" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	42.54	
For Up To 0.1, Add	30.86	
For >0.1 To 0.25, Add	15.43	
For >0.25 To 0.75, Add	7.72	
For >2.0, Deduct	-3.09	
For UV Black, Add	1.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 29 00-0337 C 4-3/4" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	40.82	
For Up To 0.1, Add	28.29	
For >0.1 To 0.25, Add	14.15	
For >0.25 To 0.75, Add	7.07	
For >2.0, Deduct	-2.83	
For UV Black, Add	1.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 29 00-0338 C 6" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	42.13	
For Up To 0.1, Add	29.51	
For >0.1 To 0.25, Add	14.76	
For >0.25 To 0.75, Add	7.38	
For >2.0, Deduct	-2.95	
For UV Black, Add	1.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.85	
26 05 29 00-0339 C 8" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	43.55	
For Up To 0.1, Add	30.86	
For >0.1 To 0.25, Add	15.43	
For >0.25 To 0.75, Add	7.72	
For >2.0, Deduct	-3.09	
For UV Black, Add	1.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 29 00-0340 C 10" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	62.54	
For Up To 0.1, Add	33.28	
For >0.1 To 0.25, Add	16.64	
For >0.25 To 0.75, Add	8.32	
For >2.0, Deduct	-3.33	
For UV Black, Add	4.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.98	
26 05 29 00-0341 C 11-1/2" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	65.19	
For Up To 0.1, Add	33.28	
For >0.1 To 0.25, Add	16.64	
For >0.25 To 0.75, Add	8.32	
For >2.0, Deduct	-3.33	
For UV Black, Add	4.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.98	
26 05 29 00-0342 C 7" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	45.40	
For Up To 0.1, Add	30.86	
For >0.1 To 0.25, Add	15.43	
For >0.25 To 0.75, Add	7.72	
For >2.0, Deduct	-3.09	
For UV Black, Add	2.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 29 00-0343 C 8" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	43.06	
For Up To 0.1, Add	30.86	
For >0.1 To 0.25, Add	15.43	
For >0.25 To 0.75, Add	7.72	
For >2.0, Deduct	-3.09	
For UV Black, Add	1.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 29 00-0344 C 11" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	63.27	
For Up To 0.1, Add	33.28	
For >0.1 To 0.25, Add	16.64	
For >0.25 To 0.75, Add	8.32	
For >2.0, Deduct	-3.33	
For UV Black, Add	4.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.98	
26 05 29 00-0345 C 14-1/2" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	72.23	
For Up To 0.1, Add	35.36	
For >0.1 To 0.25, Add	17.68	
For >0.25 To 0.75, Add	8.84	
For >2.0, Deduct	-3.54	
For UV Black, Add	5.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0346	C		8" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	70.43	
			For Up To 0.1, Add	30.86	
			For >0.1 To 0.25, Add	15.43	
			For >0.25 To 0.75, Add	7.72	
			For >2.0, Deduct	-3.09	
			For UV Black, Add	5.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 29 00-0347	C		11" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	77.08	
			For Up To 0.1, Add	33.28	
			For >0.1 To 0.25, Add	16.64	
			For >0.25 To 0.75, Add	8.32	
			For >2.0, Deduct	-3.33	
			For UV Black, Add	6.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.98	
26 05 29 00-0348	C		15" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	92.98	
			For Up To 0.1, Add	35.36	
			For >0.1 To 0.25, Add	17.68	
			For >0.25 To 0.75, Add	8.84	
			For >2.0, Deduct	-3.54	
			For UV Black, Add	8.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.61	
26 05 29 00-0349	C		17" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	132.11	
			For Up To 0.1, Add	37.71	
			For >0.1 To 0.25, Add	18.86	
			For >0.25 To 0.75, Add	9.43	
			For >2.0, Deduct	-3.77	
			For UV Black, Add	14.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 05 29 00-0350	C		17-3/4" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	128.08	
			For Up To 0.1, Add	37.71	
			For >0.1 To 0.25, Add	18.86	
			For >0.25 To 0.75, Add	9.43	
			For >2.0, Deduct	-3.77	
			For UV Black, Add	13.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 05 29 00-0351	C		21-11/16" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	155.59	
			For Up To 0.1, Add	39.47	
			For >0.1 To 0.25, Add	19.74	
			For >0.25 To 0.75, Add	9.87	
			For >2.0, Deduct	-3.95	
			For UV Black, Add	17.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.84	
26 05 29 00-0352	C		30" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	179.80	
			For Up To 0.1, Add	41.39	
			For >0.1 To 0.25, Add	20.70	
			For >0.25 To 0.75, Add	10.35	
			For >2.0, Deduct	-4.14	
			For UV Black, Add	20.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.42	
26 05 29 00-0353	C		46" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	245.77	
			For Up To 0.1, Add	44.66	
			For >0.1 To 0.25, Add	22.33	
			For >0.25 To 0.75, Add	11.17	
			For >2.0, Deduct	-4.47	
			For UV Black, Add	30.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.40	
26 05 29 00-0354	C		3/4" x 3/4" Self Adhesive Tie Mounts	45.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.73	
26 05 29 00-0355	C		1.1" x 1.1" Tie Mounts With Screw	90.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.46	
26 05 29 00-0356	EA		6" Length x 1/2" Width, Velcro Grip Cable Tie	2.58	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.20	
26 05 29 00-0357	EA		8" Length x 1/2" Width, Velcro Grip Cable Tie	2.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0358	EA		12" Length x 1/2" Width, Velcro Grip Cable Tie	3.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0359	EA		15" Length x 3/4" Width, Velcro Grip Cable Tie	4.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.17	
26 05 29 00-0360	EA		180" Length x 3/4" Width, Velcro Grip Cable Tie Roll	113.22	
			Note: Cut to length.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.27	
26 05 29 00-0361			Fastening Devices For Wireway And Conduit (26 05 29) Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
26 05 29 00-0362			Toggle Bolts (26 05 29 00-0361) Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0363	EA		1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	10.54	
			For >50 To 100, Deduct	-1.01	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-3.51	
			For >500, Deduct	-5.01	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0364 EA 1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.82	
For>50 To 100, Deduct	-1.03	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-3.60	
For>500, Deduct	-5.14	
26 05 29 00-0365 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	11.42	
For>50 To 100, Deduct	-1.07	
For>100 To 250, Deduct	-2.13	
For>250 To 500, Deduct	-3.72	
For>500, Deduct	-5.30	
26 05 29 00-0366 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	11.71	
For>50 To 100, Deduct	-1.09	
For>100 To 250, Deduct	-2.18	
For>250 To 500, Deduct	-3.81	
For>500, Deduct	-5.43	
26 05 29 00-0367 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	11.98	
For>50 To 100, Deduct	-1.12	
For>100 To 250, Deduct	-2.23	
For>250 To 500, Deduct	-3.90	
For>500, Deduct	-5.56	
26 05 29 00-0368 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	13.58	
For>50 To 100, Deduct	-1.18	
For>100 To 250, Deduct	-2.35	
For>250 To 500, Deduct	-4.08	
For>500, Deduct	-5.81	
26 05 29 00-0369 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	14.14	
For>50 To 100, Deduct	-1.21	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-4.19	
For>500, Deduct	-5.97	
26 05 29 00-0370 Machine Screws (26 05 29 00-0361)		
Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0371 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.11	
For>50 To 100, Deduct	-0.30	
For>100 To 250, Deduct	-0.61	
For>250 To 500, Deduct	-1.06	
For>500, Deduct	-1.51	
26 05 29 00-0372 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.16	
For>50 To 100, Deduct	-0.30	
For>100 To 250, Deduct	-0.61	
For>250 To 500, Deduct	-1.06	
For>500, Deduct	-1.52	
26 05 29 00-0373 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.97	
For>50 To 100, Deduct	-0.38	
For>100 To 250, Deduct	-0.76	
For>250 To 500, Deduct	-1.33	
For>500, Deduct	-1.91	
26 05 29 00-0374 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.15	
For>50 To 100, Deduct	-0.39	
For>100 To 250, Deduct	-0.77	
For>250 To 500, Deduct	-1.35	
For>500, Deduct	-1.92	
26 05 29 00-0375 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	5.13	
For>50 To 100, Deduct	-0.47	
For>100 To 250, Deduct	-0.93	
For>250 To 500, Deduct	-1.63	
For>500, Deduct	-2.32	
26 05 29 00-0376 Hex Lag Bolts With Lag Shield Expansion Anchors (26 05 29 00-0361)		
Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0377 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	5.10	
For>50 To 100, Deduct	-0.41	
For>100 To 250, Deduct	-0.82	
For>250 To 500, Deduct	-1.42	
For>500, Deduct	-2.02	
26 05 29 00-0378 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	5.04	
For>50 To 100, Deduct	-0.41	
For>100 To 250, Deduct	-0.82	
For>250 To 500, Deduct	-1.41	
For>500, Deduct	-2.01	
26 05 29 00-0379 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	7.16	
For>50 To 100, Deduct	-0.52	
For>100 To 250, Deduct	-1.03	
For>250 To 500, Deduct	-1.78	
For>500, Deduct	-2.52	
26 05 29 00-0380 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	9.15	
For>50 To 100, Deduct	-0.62	
For>100 To 250, Deduct	-1.25	
For>250 To 500, Deduct	-2.13	
For>500, Deduct	-3.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0381			Hanger Lag Bolts With Hex Nuts (26 05 29 00-0361) Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0382	EA		1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.81	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.11	
			For >500, Deduct	-1.58	
26 05 29 00-0383	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.87	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.12	
			For >500, Deduct	-1.59	
26 05 29 00-0384	EA		3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	4.59	
			For >50 To 100, Deduct	-0.37	
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-1.27	
			For >500, Deduct	-1.80	
26 05 29 00-0385			Hollow Wall Screw Anchors (26 05 29 00-0361)		
26 05 29 00-0386	EA		6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.25	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.38	
			For >250 To 500, Deduct	-0.67	
			For >500, Deduct	-0.95	
26 05 29 00-0387	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.32	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.67	
			For >500, Deduct	-0.96	
26 05 29 00-0388	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.43	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.68	
			For >500, Deduct	-0.97	
26 05 29 00-0389	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.08	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.81	
			For >500, Deduct	-1.15	
26 05 29 00-0390	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.23	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.16	
26 05 29 00-0391	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.28	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.17	
26 05 29 00-0392	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.31	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.17	
26 05 29 00-0393	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.53	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.84	
			For >500, Deduct	-1.19	
26 05 29 00-0394	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.61	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.20	
26 05 29 00-0395			Lead Screw Anchors (26 05 29 00-0361) Note: Includes screw.		
26 05 29 00-0396	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw.....	5.20	
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.95	
			For >250 To 500, Deduct	-1.66	
			For >500, Deduct	-2.37	
26 05 29 00-0397	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw.....	6.19	
			For >50 To 100, Deduct	-0.56	
			For >100 To 250, Deduct	-1.11	
			For >250 To 500, Deduct	-1.93	
			For >500, Deduct	-2.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0398 EA #16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	8.37	
For >50 To 100, Deduct	-0.72	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-3.55	
26 05 29 00-0399 Acoustical T-Bar Clips (26 05 29 00-0391)		
Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0400 EA 1/2" Conduit, Push-In Acoustical T-Bar Clip	9.18	
For >50 To 100, Deduct	-0.66	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-3.23	
26 05 29 00-0401 EA 3/4" Conduit, Push-In Acoustical T-Bar Clip	9.62	
For >50 To 100, Deduct	-0.70	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-3.39	
26 05 29 00-0402 EA 1" Conduit, Push-In Acoustical T-Bar Clip	10.53	
For >50 To 100, Deduct	-0.74	
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-2.55	
For >500, Deduct	-3.62	
26 05 29 00-0403 Threaded Rod, Accessories And Attachments (26 05 29)		
26 05 29 00-0404 Threaded Rod And Rod Accessories (26 05 29 00-0403)		
26 05 29 00-0405 Carbon Steel Threaded Rod (26 05 29 00-0404)		
Note: Includes plain finish.		
26 05 29 00-0406 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.44	0.85
For Galvanized, Add	0.70	
For Zinc Coated, Add	0.50	
26 05 29 00-0407 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.58	0.90
For Galvanized, Add	1.11	
For Zinc Coated, Add	0.79	
26 05 29 00-0408 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.17	0.93
For Galvanized, Add	1.72	
For Zinc Coated, Add	1.23	
26 05 29 00-0409 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	9.74	0.96
For Galvanized, Add	3.12	
For Zinc Coated, Add	2.23	
26 05 29 00-0410 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.58	1.00
For Galvanized, Add	3.43	
For Zinc Coated, Add	2.45	
26 05 29 00-0411 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.30	1.13
For Galvanized, Add	4.82	
For Zinc Coated, Add	3.43	
26 05 29 00-0412 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.70	1.26
For Galvanized, Add	6.08	
For Zinc Coated, Add	4.33	
26 05 29 00-0413 Threaded Rod Couplings (26 05 29 00-0404)		
26 05 29 00-0414 EA 3/8" Diameter, Threaded Rod Coupling Nut	10.91	
26 05 29 00-0415 EA 1/2" Diameter, Threaded Rod Coupling Nut	12.37	
26 05 29 00-0416 EA 5/8" Diameter, Threaded Rod Coupling Nut	15.44	
26 05 29 00-0417 EA 3/4" Diameter, Threaded Rod Coupling Nut	18.81	
26 05 29 00-0418 EA 7/8" Diameter, Threaded Rod Coupling Nut	27.50	
26 05 29 00-0419 EA 1" Diameter, Threaded Rod Coupling Nut	32.62	
26 05 29 00-0420 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	62.22	
26 05 29 00-0421 Flat Washers (26 05 29 00-0404)		
26 05 29 00-0422 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.93	0.34
For Galvanized, Add	0.04	
26 05 29 00-0423 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.19	0.34
For Galvanized, Add	0.09	
26 05 29 00-0424 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.57	0.34
For Galvanized, Add	0.17	
26 05 29 00-0425 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.92	0.68
For Galvanized, Add	0.25	
26 05 29 00-0426 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.17	0.68
For Galvanized, Add	0.29	
26 05 29 00-0427 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.57	0.68
For Galvanized, Add	0.36	
26 05 29 00-0428 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.88	0.68
For Galvanized, Add	0.41	
26 05 29 00-0429 Malleable Iron Eye Sockets (26 05 29 00-0404)		
Note: Type 16.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0430 EA 3/8" Rod Size, Malleable Iron Eye Socket	16.18	
26 05 29 00-0431 EA 1/2" Rod Size, Malleable Iron Eye Socket	19.58	
26 05 29 00-0432 EA 5/8" Rod Size, Malleable Iron Eye Socket	35.49	
26 05 29 00-0433 EA 3/4" Rod Size, Malleable Iron Eye Socket	51.33	
26 05 29 00-0434 EA 7/8" Rod Size, Malleable Iron Eye Socket	54.52	
26 05 29 00-0435 Hex Nuts (26 05 29 00-0404)		
26 05 29 00-0436 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.91	0.34
For Galvanized, Add	0.04	
26 05 29 00-0437 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.14	0.34
For Galvanized, Add	0.08	
26 05 29 00-0438 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.57	0.34
For Galvanized, Add	0.17	
26 05 29 00-0439 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.86	0.68
For Galvanized, Add	0.23	
26 05 29 00-0440 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.73	0.68
For Galvanized, Add	0.43	
26 05 29 00-0441 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.48	0.68
For Galvanized, Add	0.59	
26 05 29 00-0442 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.69	0.68
For Galvanized, Add	1.11	
26 05 29 00-0443 Forged Steel Turnbuckles (26 05 29 00-0404)		
Note: Type 13.		
26 05 29 00-0444 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body	38.70	
26 05 29 00-0445 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body	48.46	
26 05 29 00-0446 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body	66.13	
26 05 29 00-0447 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body	82.45	
26 05 29 00-0448 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body	212.63	
26 05 29 00-0449 EA 1" Thread Diameter, Forged Steel Turnbuckle Body	136.87	
26 05 29 00-0450 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	283.14	
26 05 29 00-0451 Attachments (26 05 29 00-0403)		
26 05 29 00-0452 Welded Beam Attachments (26 05 29 00-0451)		
Note: Type 22.		
26 05 29 00-0453 EA 3/8" Rod Size, Welded Beam Attachment	70.21	13.55
26 05 29 00-0454 EA 1/2" Rod Size, Welded Beam Attachment	75.01	14.22
26 05 29 00-0455 EA 5/8" Rod Size, Welded Beam Attachment	79.94	15.03
26 05 29 00-0456 EA 3/4" Rod Size, Welded Beam Attachment	104.05	15.99
26 05 29 00-0457 EA 7/8" Rod Size, Welded Beam Attachment	126.23	16.93
26 05 29 00-0458 EA 1" Rod Size, Welded Beam Attachment	179.71	19.38
26 05 29 00-0459 EA 1-1/8" Rod Size, Welded Beam Attachment	258.97	20.32
26 05 29 00-0460 C-Clamp Style Beam Clamps (26 05 29 00-0451)		
Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0461 EA 3/8" Rod Size, C-Clamp Style Beam Clamp	22.24	10.18
26 05 29 00-0462 EA 1/2" Rod Size, C-Clamp Style Beam Clamp	27.23	10.86
26 05 29 00-0463 EA 5/8" Rod Size, C-Clamp Style Beam Clamp	31.27	11.64
26 05 29 00-0464 EA 3/4" Rod Size, C-Clamp Style Beam Clamp	41.48	12.53
26 05 29 00-0465 EA 7/8" Rod Size, C-Clamp Style Beam Clamp	62.62	13.58
26 05 29 00-0466 Bottom Mount I-Beam Clamps (26 05 29 00-0451)		
Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0467 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	68.91	13.58
26 05 29 00-0468 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	104.00	14.82
26 05 29 00-0469 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	151.17	16.29
26 05 29 00-0470 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	181.67	18.10
26 05 29 00-0471 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	452.25	20.36
26 05 29 00-0472 Steel U-Bolts (26 05 29 00-0451)		
Note: Type 24. Includes plate and nuts.		
26 05 29 00-0473 EA 1/2" Pipe Size, Zinc Plated Steel, U-Bolt	18.21	8.14
26 05 29 00-0474 EA 3/4" Pipe Size, Zinc Plated Steel, U-Bolt	19.90	8.57
26 05 29 00-0475 EA 1" Pipe Size, Zinc Plated Steel, U-Bolt	21.51	9.05
26 05 29 00-0476 EA 1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	24.83	9.58
26 05 29 00-0477 EA 1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	25.49	10.18
26 05 29 00-0478 EA 2" Pipe Size, Zinc Plated Steel, U-Bolt	27.30	10.87
26 05 29 00-0479 EA 2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	41.44	11.64
26 05 29 00-0480 EA 3" Pipe Size, Zinc Plated Steel, U-Bolt	45.84	12.53
26 05 29 00-0481 EA 4" Pipe Size, Zinc Plated Steel, U-Bolt	56.20	13.58
26 05 29 00-0482 Stainless Steel Threaded Rod (26 05 29 00-0403)		
26 05 29 00-0483 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.28	0.68
For 316 Stainless Steel, Add	1.18	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0484 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	6.49 2.02	0.74
26 05 29 00-0485 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	8.35 2.69	0.85
26 05 29 00-0486 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	11.65 4.01	0.87
26 05 29 00-0487 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	14.00 4.94	0.90
26 05 29 00-0488 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	21.05 7.78	0.92
26 05 29 00-0489 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	29.52 11.20	0.93
26 05 29 00-0490 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	40.68 15.69	0.96
26 05 29 00-0491 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	52.29 20.26	1.13
26 05 29 00-0492 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	110.83 43.74	1.36
26 05 29 00-0493 Polyvinyl Chloride (PVC) Coated Supports (26 05 29) Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.		
26 05 29 00-0494 Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0493)		
26 05 29 00-0495 Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0494)		
26 05 29 00-0496 EA 1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	69.59	27.10
26 05 29 00-0497 EA 3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	75.65	29.54
26 05 29 00-0498 EA 1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	80.89	32.52
26 05 29 00-0499 EA 1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	96.51	36.18
26 05 29 00-0500 EA 1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	111.30	40.64
26 05 29 00-0501 EA 2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	132.41	44.71
26 05 29 00-0502 EA 2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	144.79	48.77
26 05 29 00-0503 EA 3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	159.29	52.84
26 05 29 00-0504 EA 3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	168.42	56.90
26 05 29 00-0505 EA 4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	181.94	60.96
26 05 29 00-0506 Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0494)		
26 05 29 00-0507 EA 1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	74.31	27.10
26 05 29 00-0508 EA 3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	78.85	29.54
26 05 29 00-0509 EA 1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	90.46	32.52
26 05 29 00-0510 EA 1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	99.91	36.18
26 05 29 00-0511 EA 1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	112.61	40.64
26 05 29 00-0512 EA 2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	130.16	44.71
26 05 29 00-0513 EA 2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	149.04	48.77
26 05 29 00-0514 EA 3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	164.94	52.84
26 05 29 00-0515 EA 3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	175.52	56.90
26 05 29 00-0516 EA 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	182.88	60.96
26 05 29 00-0517 Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0494)		
26 05 29 00-0518 EA 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	70.40	26.82
26 05 29 00-0519 EA 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	75.79	29.27
26 05 29 00-0520 EA 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	85.70	32.52
26 05 29 00-0521 EA 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	100.10	35.77
26 05 29 00-0522 EA 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	129.33	40.64
26 05 29 00-0523 EA 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	141.82	44.71
26 05 29 00-0524 Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0525 One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0524)		
26 05 29 00-0526 EA 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	8.06	0.81
26 05 29 00-0527 EA 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	8.75	0.81
26 05 29 00-0528 EA 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	12.78	0.81
26 05 29 00-0529 EA 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	15.51	0.81
26 05 29 00-0530 EA 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	20.36	0.81
26 05 29 00-0531 EA 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	30.50	0.81
26 05 29 00-0532 EA 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	40.57	0.81
26 05 29 00-0533 EA 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	54.30	0.81
26 05 29 00-0534 EA 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	95.97	0.81
26 05 29 00-0535 EA 4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	101.98	0.81
26 05 29 00-0536 Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0524)		
26 05 29 00-0537 EA 1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	15.91	1.62
26 05 29 00-0538 EA 3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	15.98	1.62
26 05 29 00-0539 EA 1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	16.39	1.62
26 05 29 00-0540 EA 1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	20.54	1.62
26 05 29 00-0541 EA 1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	21.11	1.62
26 05 29 00-0542 EA 2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	24.17	1.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0543 EA 2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	27.14	1.62
26 05 29 00-0544 EA 3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	28.37	1.62
26 05 29 00-0545 EA 3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	30.27	1.62
26 05 29 00-0546 EA 4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	32.81	1.62
26 05 29 00-0547 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0493)		
26 05 29 00-0548 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0547)		
26 05 29 00-0549 EA 1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	14.46	1.62
26 05 29 00-0550 EA 3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	16.77	1.62
26 05 29 00-0551 EA 1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	21.02	1.62
26 05 29 00-0552 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	24.53	1.62
26 05 29 00-0553 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	32.75	1.62
26 05 29 00-0554 EA 2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	63.11	1.62
26 05 29 00-0555 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	79.98	1.62
26 05 29 00-0556 EA 3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	109.10	1.62
26 05 29 00-0557 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	190.75	1.62
26 05 29 00-0558 EA 4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	190.75	1.62
26 05 29 00-0559 Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0493)		
26 05 29 00-0560 Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0559)		
26 05 29 00-0561 LF 3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	9.96	1.09
26 05 29 00-0562 LF 1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	12.24	1.23
26 05 29 00-0563 Attachments (26 05 29 00-0493)		
26 05 29 00-0564 Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0563)		
26 05 29 00-0565 EA 1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	20.57	8.14
26 05 29 00-0566 EA 3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	21.28	8.55
26 05 29 00-0567 EA 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	22.42	9.10
26 05 29 00-0568 EA 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	23.84	9.64
26 05 29 00-0569 EA 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	25.39	10.18
26 05 29 00-0570 EA 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	28.42	10.87
26 05 29 00-0571 EA 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	40.25	11.68
26 05 29 00-0572 EA 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	42.28	12.49
26 05 29 00-0573 EA 4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	45.11	13.58
26 05 29 00-0574 EA 5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	72.30	15.48
26 05 29 00-0575 EA 6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	89.36	17.92
26 05 29 00-0576 Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0563)		
26 05 29 00-0577 EA 1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	71.11	26.82
26 05 29 00-0578 EA 5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	82.34	26.82
26 05 29 00-0579 EA 3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	86.96	26.82
26 05 29 00-0580 EA 1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	95.74	28.45
26 05 29 00-0581 EA 1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	111.95	32.52
26 05 29 00-0582 Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0563)		
Note: Includes stainless steel nuts and bolts.		
26 05 29 00-0583 EA 1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	27.00	8.95
26 05 29 00-0584 EA 3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	28.39	9.76
26 05 29 00-0585 EA 1" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	30.93	10.57
26 05 29 00-0586 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	34.80	12.20
26 05 29 00-0587 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	39.83	13.82
26 05 29 00-0588 EA 2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	44.32	14.63
26 05 29 00-0589 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	48.97	16.26
26 05 29 00-0590 EA 3" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	58.31	17.88
26 05 29 00-0591 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	63.78	18.70
26 05 29 00-0592 EA 4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	66.99	20.32
26 05 29 00-0593 EA 5" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	71.54	22.76
26 05 29 00-0594 Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0493)		
26 05 29 00-0595 LF A12, Polyvinyl Chloride (PVC) Coated Channel.....	28.16	4.06
26 05 29 00-0596 LF A12A, Polyvinyl Chloride (PVC) Coated Channel.....	49.92	5.69
26 05 29 00-0597 LF A12P, Polyvinyl Chloride (PVC) Coated Channel.....	30.08	4.06
26 05 29 00-0598 LF C14, Polyvinyl Chloride (PVC) Coated Channel.....	22.27	4.06
26 05 29 00-0599 LF C14P, Polyvinyl Chloride (PVC) Coated Channel.....	23.46	4.06
26 05 29 00-0600 Polymer Concrete Pads (26 05 29)		
Note: Excludes excavation and backfill.		
26 05 29 00-0601 Polymer Concrete, Box Pads (26 05 29 00-0600)		
26 05 29 00-0602 EA 24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,461.07	138.66
26 05 29 00-0603 EA 25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	1,509.99	138.66

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0604 EA 40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,959.47	138.66
26 05 29 00-0605 EA 40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	2,034.00	138.66
26 05 29 00-0606 EA 52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,890.10	138.66
26 05 29 00-0607 EA 44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	2,242.04	138.66
26 05 29 00-0608 EA 40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	2,511.91	138.66
26 05 29 00-0609 EA 52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	2,404.75	173.32
26 05 29 00-0610 EA 74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	3,665.65	173.32
26 05 29 00-0611 EA 93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	4,932.79	173.32

26 05 29 00-0612 Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0600)

26 05 29 00-0613 EA 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	697.39	72.00
26 05 29 00-0614 EA 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	831.00	72.00
26 05 29 00-0615 EA 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,083.97	103.99
26 05 29 00-0616 EA 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,133.63	103.99
26 05 29 00-0617 EA 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,639.17	103.99
26 05 29 00-0618 EA 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,709.44	103.99
26 05 29 00-0619 EA 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,840.36	103.99
26 05 29 00-0620 EA 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,840.36	103.99
26 05 29 00-0621 EA 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,485.15	103.99
26 05 29 00-0622 EA 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,954.47	103.99

26 05 29 00-0623 Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0600)

26 05 29 00-0624 EA 24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	414.38	72.00
26 05 29 00-0625 EA 24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	448.73	72.00
26 05 29 00-0626 EA 24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	480.02	72.00
26 05 29 00-0627 EA 24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	583.96	72.00
26 05 29 00-0628 EA 40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	537.58	72.00
26 05 29 00-0629 EA 42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	559.43	72.00
26 05 29 00-0630 EA 48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	616.10	72.00
26 05 29 00-0631 EA 48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	649.15	72.00
26 05 29 00-0632 EA 54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	759.54	72.00
26 05 29 00-0633 EA 56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	941.37	72.00
26 05 29 00-0634 EA 64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,395.62	103.99
26 05 29 00-0635 EA 66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,462.08	103.99
26 05 29 00-0636 EA 75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,483.05	103.99
26 05 29 00-0637 EA 90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,622.76	103.99
26 05 29 00-0638 EA 84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	3,491.46	103.99
26 05 29 00-0639 EA 96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	4,117.39	103.99

26 05 33 Raceway and Boxes for Electrical Systems (26 05)**26 05 33 13 Conduit for Electrical Systems (26 05 33)****26 05 33 13-0001 Conduit Assemblies With Wire Assemblies (26 05 33 13)**

Note: Includes conduit, field bending conduit up to and including 1", fittings and wire. Excludes hangers or supports.

26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001)

Note: Includes conduit, field bends, fittings, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0594 for larger EMT conduit.

26 05 33 13-0003 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly.....	1,020.35	302.57
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		259.39
<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>		2.36
26 05 33 13-0004 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly.....	1,118.25	328.57
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		281.67
<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>		3.54
26 05 33 13-0005 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly.....	1,216.15	354.57
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		303.95
<i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>		4.72
26 05 33 13-0006 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly.....	1,081.22	315.57
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		270.53
<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>		3.54
26 05 33 13-0007 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly.....	1,203.36	345.90
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		296.53
<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>		5.31



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0008	CLF	1/2"	Electrical Metallic Tubing (EMT) Conduit With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,325.50 322.52 7.08	376.23
26 05 33 13-0009	CLF	1/2"	Electrical Metallic Tubing (EMT) Conduit With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,219.91 292.81 6.18	341.56
26 05 33 13-0010	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,131.98 279.59 2.36	326.21
26 05 33 13-0011	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,229.88 301.88 3.54	352.21
26 05 33 13-0012	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	1,327.77 324.16	378.21
26 05 33 13-0013	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,425.67 346.44 5.90	404.21
26 05 33 13-0014	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,192.85 290.73 3.54	339.22
26 05 33 13-0015	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,314.99 316.73 5.31	369.54
26 05 33 13-0016	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,437.12 342.73 7.08	399.87
26 05 33 13-0017	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,559.26 368.73 8.85	430.21
26 05 33 13-0018	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,504.71 346.44 9.26	404.21
26 05 33 13-0019	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	1,677.87 379.87 12.35	443.20
26 05 33 13-0020	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,512.79 335.30 10.21	391.21
26 05 33 13-0021	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,751.07 376.16 15.32	438.88

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0022	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,287.60 300.98 2.36	351.10
26 05 33 13-0023	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,385.49 323.27 3.54	377.09
26 05 33 13-0024	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,483.39 345.55	403.09
26 05 33 13-0025	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,581.29 367.84 5.90	429.09
26 05 33 13-0026	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,348.47 312.13 3.54	364.10
26 05 33 13-0027	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,470.61 338.12 5.31	394.42
26 05 33 13-0028	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,592.75 364.12 7.08	424.76
26 05 33 13-0029	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,714.89 390.12 8.85	455.09
26 05 33 13-0030	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,660.33 367.84 9.26	429.09
26 05 33 13-0031	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,906.69 397.55 15.32	463.76
26 05 33 13-0032	CLF	1" Electrical Metallic Tubing (EMT) Conduit With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,144.97 438.40 20.42	511.42
26 05 33 13-0033		Rigid Galvanized Steel (RGS) Conduit Assemblies (26 05 33 13-0001) Note: Includes conduit, field bends, fittings, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0060 for larger RGS conduit.		
26 05 33 13-0034	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,343.73 295.19 2.36	344.41
26 05 33 13-0035	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,441.64 317.48 3.54	370.41
26 05 33 13-0036	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,404.60 306.33 3.54	357.41



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0037	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #10 THWN Conductor Instead Of THHN, Add	1,526.74 332.33 5.31	387.74
26 05 33 13-0038	CLF	1/2" Rigid Galvanized Steel (RGS) Conduit With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #8 THWN Conductor Instead Of THHN, Add	1,543.29 328.61 6.18	383.41
26 05 33 13-0039	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #12 THWN Conductor Instead Of THHN, Add	1,476.61 314.80 2.36	367.31
26 05 33 13-0040	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #12 THWN Conductor Instead Of THHN, Add	1,574.51 337.08 3.54	393.31
26 05 33 13-0041	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add	1,672.40 359.37	419.31
26 05 33 13-0042	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #10 THWN Conductor Instead Of THHN, Add	1,537.48 325.94 3.54	380.32
26 05 33 13-0043	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	1,659.62 351.94 5.31	410.65
26 05 33 13-0044	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	1,781.76 377.94 7.08	440.97
26 05 33 13-0045	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	1,849.34 381.65 9.26	445.31
26 05 33 13-0046	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #8 THWN Conductor Instead Of THHN, Add	2,022.51 415.08 12.35	484.31
26 05 33 13-0047	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #6 THWN Conductor Instead Of THHN, Add	1,857.42 370.51 10.21	432.31
26 05 33 13-0048	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	2,095.70 411.36 15.32	479.98
26 05 33 13-0049	CLF	1" Rigid Galvanized Steel (RGS) Conduit With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #12 THWN Conductor Instead Of THHN, Add	1,899.55 375.97 3.54	438.62
26 05 33 13-0050	CLF	1" Rigid Galvanized Steel (RGS) Conduit With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add	1,997.44 398.25	464.62
26 05 33 13-0051	CLF	1" Rigid Galvanized Steel (RGS) Conduit With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #12 THWN Conductor Instead Of THHN, Add	2,095.34 420.54 5.90	490.62
26 05 33 13-0052	CLF	1" Rigid Galvanized Steel (RGS) Conduit With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	1,984.66 390.83 5.31	455.95
26 05 33 13-0053	CLF	1" Rigid Galvanized Steel (RGS) Conduit With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	2,106.79 416.82 7.08	486.29

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0054	CLF	1" Rigid Galvanized Steel (RGS) Conduit With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	2,228.93 442.82 8.85	516.62
26 05 33 13-0055	CLF	1" Rigid Galvanized Steel (RGS) Conduit With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	2,174.38 420.54 9.26	490.62
26 05 33 13-0056	CLF	1" Rigid Galvanized Steel (RGS) Conduit With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,420.73 450.25 15.32	525.28
26 05 33 13-0057	CLF	1" Rigid Galvanized Steel (RGS) Conduit With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,659.02 491.10 20.42	572.94
26 05 33 13-0058		Conduit (26 05 33 13) Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0059		Conduit Installed Above Grade (26 05 33 13-0058) See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0060		Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit (26 05 33 13-0059) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0061		Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling (26 05 33 13-0060) Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-0062	LF	1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	9.56 -0.14 -0.55 -0.79 0.68 1.70 1.02 2.04 0.68 1.36 1.70 2.38 2.72 3.41 3.75	2.72
26 05 33 13-0063	LF	3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	11.33 -0.17 -0.65 -0.93 0.79 1.98 1.19 2.38 0.79 1.59 1.98 2.78 3.17 3.97 4.36	2.97
26 05 33 13-0064	LF	1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	15.91 -0.26 -0.93 -1.32 1.07 2.66 1.60 3.20 1.07 2.13 2.66 3.73 4.26 5.33 5.86	3.46



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0065	LF	1-1/4"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	18.28	3.96
			For >250 To 500, Deduct	-0.35	
			For >500 To 1,000, Deduct	-1.09	
			For >1,000, Deduct	-1.55	
			For Installation In Metal Stud Wall, Add	1.13	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.82	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.69	
			For Work In Restricted Working Space, Add	3.38	
			For Elevated Installation >10' To 15' Above Floor, Add	1.13	
			For Elevated Installation >15' To 20' Above Floor, Add	2.25	
			For Elevated Installation >20' To 25' Above Floor, Add	2.82	
			For Elevated Installation >25' To 30' Above Floor, Add	3.94	
			For Elevated Installation >30' To 35' Above Floor, Add	4.51	
			For Elevated Installation >35' To 40' Above Floor, Add	5.64	
			For Elevated Installation >40' Above Floor, Add	6.20	
26 05 33 13-0066	LF	1-1/2"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	20.97	4.46
			For >250 To 500, Deduct	-0.43	
			For >500 To 1,000, Deduct	-1.26	
			For >1,000, Deduct	-1.79	
			For Installation In Metal Stud Wall, Add	1.24	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.10	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.86	
			For Work In Restricted Working Space, Add	3.71	
			For Elevated Installation >10' To 15' Above Floor, Add	1.24	
			For Elevated Installation >15' To 20' Above Floor, Add	2.48	
			For Elevated Installation >20' To 25' Above Floor, Add	3.10	
			For Elevated Installation >25' To 30' Above Floor, Add	4.33	
			For Elevated Installation >30' To 35' Above Floor, Add	4.95	
			For Elevated Installation >35' To 40' Above Floor, Add	6.19	
			For Elevated Installation >40' Above Floor, Add	6.81	
26 05 33 13-0067	LF	2"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	26.71	5.45
			For >250 To 500, Deduct	-0.57	
			For >500 To 1,000, Deduct	-1.62	
			For >1,000, Deduct	-2.29	
			For Installation In Metal Stud Wall, Add	1.52	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.81	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.28	
			For Work In Restricted Working Space, Add	4.57	
			For Elevated Installation >10' To 15' Above Floor, Add	1.52	
			For Elevated Installation >15' To 20' Above Floor, Add	3.05	
			For Elevated Installation >20' To 25' Above Floor, Add	3.81	
			For Elevated Installation >25' To 30' Above Floor, Add	5.33	
			For Elevated Installation >30' To 35' Above Floor, Add	6.09	
			For Elevated Installation >35' To 40' Above Floor, Add	7.62	
			For Elevated Installation >40' Above Floor, Add	8.38	
26 05 33 13-0068	LF	2-1/2"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	39.70	7.43
			For >250 To 500, Deduct	-0.95	
			For >500 To 1,000, Deduct	-2.46	
			For >1,000, Deduct	-3.45	
			For Installation In Metal Stud Wall, Add	2.07	
			For Installation In Wood Stud Wall (Includes Drilling), Add	5.17	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	3.10	
			For Work In Restricted Working Space, Add	6.20	
			For Elevated Installation >10' To 15' Above Floor, Add	2.07	
			For Elevated Installation >15' To 20' Above Floor, Add	4.13	
			For Elevated Installation >20' To 25' Above Floor, Add	5.17	
			For Elevated Installation >25' To 30' Above Floor, Add	7.23	
			For Elevated Installation >30' To 35' Above Floor, Add	8.27	
			For Elevated Installation >35' To 40' Above Floor, Add	10.34	
			For Elevated Installation >40' Above Floor, Add	11.37	
26 05 33 13-0069	LF	3"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	52.07	9.90
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-3.21	
			For >1,000, Deduct	-4.51	
			For Installation In Metal Stud Wall, Add	2.79	
			For Installation In Wood Stud Wall (Includes Drilling), Add	6.96	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	4.18	
			For Work In Restricted Working Space, Add	8.36	
			For Elevated Installation >10' To 15' Above Floor, Add	2.79	
			For Elevated Installation >15' To 20' Above Floor, Add	5.57	
			For Elevated Installation >20' To 25' Above Floor, Add	6.96	
			For Elevated Installation >25' To 30' Above Floor, Add	9.75	
			For Elevated Installation >30' To 35' Above Floor, Add	11.14	
			For Elevated Installation >35' To 40' Above Floor, Add	13.93	
			For Elevated Installation >40' Above Floor, Add	15.32	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0070 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	62.60	12.38
For >250 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-3.87	
For >1,000, Deduct	-5.43	
For Installation In Metal Stud Wall, Add	3.31	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.26	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	4.96	
For Work In Restricted Working Space, Add	9.92	
For Elevated Installation >10' To 15' Above Floor, Add	3.31	
For Elevated Installation >15' To 20' Above Floor, Add	6.61	
For Elevated Installation >20' To 25' Above Floor, Add	8.26	
For Elevated Installation >25' To 30' Above Floor, Add	11.57	
For Elevated Installation >30' To 35' Above Floor, Add	13.22	
For Elevated Installation >35' To 40' Above Floor, Add	16.53	
For Elevated Installation >40' Above Floor, Add	18.18	
26 05 33 13-0071 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	74.23	14.86
For >250 To 500, Deduct	-1.81	
For >500 To 1,000, Deduct	-4.61	
For >1,000, Deduct	-6.47	
For Installation In Metal Stud Wall, Add	3.81	
For Installation In Wood Stud Wall (Includes Drilling), Add	9.53	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	5.72	
For Work In Restricted Working Space, Add	11.44	
For Elevated Installation >10' To 15' Above Floor, Add	3.81	
For Elevated Installation >15' To 20' Above Floor, Add	7.63	
For Elevated Installation >20' To 25' Above Floor, Add	9.53	
For Elevated Installation >25' To 30' Above Floor, Add	13.35	
For Elevated Installation >30' To 35' Above Floor, Add	15.25	
For Elevated Installation >35' To 40' Above Floor, Add	19.07	
For Elevated Installation >40' Above Floor, Add	20.97	
26 05 33 13-0072 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	116.74	18.81
For >250 To 500, Deduct	-3.49	
For >500 To 1,000, Deduct	-7.58	
For >1,000, Deduct	-10.50	
For Installation In Metal Stud Wall, Add	4.70	
For Installation In Wood Stud Wall (Includes Drilling), Add	11.76	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	7.06	
For Work In Restricted Working Space, Add	14.11	
For Elevated Installation >10' To 15' Above Floor, Add	4.70	
For Elevated Installation >15' To 20' Above Floor, Add	9.41	
For Elevated Installation >20' To 25' Above Floor, Add	11.76	
For Elevated Installation >25' To 30' Above Floor, Add	16.46	
For Elevated Installation >30' To 35' Above Floor, Add	18.82	
For Elevated Installation >35' To 40' Above Floor, Add	23.52	
For Elevated Installation >40' Above Floor, Add	25.87	
26 05 33 13-0073 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	157.38	23.77
For >250 To 500, Deduct	-4.90	
For >500 To 1,000, Deduct	-10.32	
For >1,000, Deduct	-14.25	
For Installation In Metal Stud Wall, Add	5.94	
For Installation In Wood Stud Wall (Includes Drilling), Add	14.86	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	8.91	
For Work In Restricted Working Space, Add	17.83	
For Elevated Installation >10' To 15' Above Floor, Add	5.94	
For Elevated Installation >15' To 20' Above Floor, Add	11.88	
For Elevated Installation >20' To 25' Above Floor, Add	14.86	
For Elevated Installation >25' To 30' Above Floor, Add	20.80	
For Elevated Installation >30' To 35' Above Floor, Add	23.77	
For Elevated Installation >35' To 40' Above Floor, Add	29.71	
For Elevated Installation >40' Above Floor, Add	32.68	
26 05 33 13-0074 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0075 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	101.10	27.36
For Work In Restricted Working Space, Add	20.50	
For Elevated Installation >10' To 15' Above Floor, Add	6.83	
For Elevated Installation >15' To 20' Above Floor, Add	13.66	
For Elevated Installation >20' To 25' Above Floor, Add	17.08	
For Elevated Installation >25' To 30' Above Floor, Add	23.91	
For Elevated Installation >30' To 35' Above Floor, Add	27.33	
For Elevated Installation >35' To 40' Above Floor, Add	34.16	
For Elevated Installation >40' Above Floor, Add	37.58	
26 05 33 13-0076 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	143.83	34.17
For Work In Restricted Working Space, Add	25.63	
For Elevated Installation >10' To 15' Above Floor, Add	8.54	
For Elevated Installation >15' To 20' Above Floor, Add	17.08	
For Elevated Installation >20' To 25' Above Floor, Add	21.36	
For Elevated Installation >25' To 30' Above Floor, Add	29.90	
For Elevated Installation >30' To 35' Above Floor, Add	34.17	
For Elevated Installation >35' To 40' Above Floor, Add	42.71	
For Elevated Installation >40' Above Floor, Add	46.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0077 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	203.33 34.91 11.64 23.27 29.09 40.73 46.54 58.18 64.00	46.55
26 05 33 13-0078 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	267.21 39.38 13.13 26.25 32.81 45.94 52.50 65.63 72.19	52.49
26 05 33 13-0079 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	327.50 51.24 17.08 34.16 42.70 59.78 68.32 85.41 93.95	68.33
26 05 33 13-0080 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	535.67 83.57 27.86 55.71 69.64 97.50 111.43 139.29 153.21	111.42
26 05 33 13-0081 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	805.27 125.53 41.84 83.68 104.61 146.45 167.37 209.21 230.13	167.38
26 05 33 13-0082 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow (26 05 33 13-0060) See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0083 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	36.49 9.22 3.07 6.15 7.68 10.76 12.29 15.37 16.90	12.25
26 05 33 13-0084 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	45.81 11.46 3.82 7.64 9.55 13.37 15.28 19.11 21.02	15.23
26 05 33 13-0085 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	58.30 13.98 4.66 9.32 11.65 16.31 18.64 23.31 25.64	18.69
26 05 33 13-0086 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	74.10 16.23 5.41 10.82 13.53 18.94 21.64 27.06 29.76	21.66

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0087 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	85.96	24.88
For Work In Restricted Working Space, Add	18.63	
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.42	
For Elevated Installation >20' To 25' Above Floor, Add	15.53	
For Elevated Installation >25' To 30' Above Floor, Add	21.74	
For Elevated Installation >30' To 35' Above Floor, Add	24.84	
For Elevated Installation >35' To 40' Above Floor, Add	31.06	
For Elevated Installation >40' Above Floor, Add	34.16	
26 05 33 13-0088 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	101.10	27.36
For Work In Restricted Working Space, Add	20.50	
For Elevated Installation >10' To 15' Above Floor, Add	6.83	
For Elevated Installation >15' To 20' Above Floor, Add	13.66	
For Elevated Installation >20' To 25' Above Floor, Add	17.08	
For Elevated Installation >25' To 30' Above Floor, Add	23.91	
For Elevated Installation >30' To 35' Above Floor, Add	27.33	
For Elevated Installation >35' To 40' Above Floor, Add	34.16	
For Elevated Installation >40' Above Floor, Add	37.58	
26 05 33 13-0089 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	141.46	34.17
For Work In Restricted Working Space, Add	25.63	
For Elevated Installation >10' To 15' Above Floor, Add	8.54	
For Elevated Installation >15' To 20' Above Floor, Add	17.08	
For Elevated Installation >20' To 25' Above Floor, Add	21.36	
For Elevated Installation >25' To 30' Above Floor, Add	29.90	
For Elevated Installation >30' To 35' Above Floor, Add	34.17	
For Elevated Installation >35' To 40' Above Floor, Add	42.71	
For Elevated Installation >40' Above Floor, Add	46.98	
26 05 33 13-0090 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	194.09	46.55
For Work In Restricted Working Space, Add	34.91	
For Elevated Installation >10' To 15' Above Floor, Add	11.64	
For Elevated Installation >15' To 20' Above Floor, Add	23.27	
For Elevated Installation >20' To 25' Above Floor, Add	29.09	
For Elevated Installation >25' To 30' Above Floor, Add	40.73	
For Elevated Installation >30' To 35' Above Floor, Add	46.54	
For Elevated Installation >35' To 40' Above Floor, Add	58.18	
For Elevated Installation >40' Above Floor, Add	64.00	
26 05 33 13-0091 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	254.22	52.49
For Work In Restricted Working Space, Add	39.38	
For Elevated Installation >10' To 15' Above Floor, Add	13.13	
For Elevated Installation >15' To 20' Above Floor, Add	26.25	
For Elevated Installation >20' To 25' Above Floor, Add	32.81	
For Elevated Installation >25' To 30' Above Floor, Add	45.94	
For Elevated Installation >30' To 35' Above Floor, Add	52.50	
For Elevated Installation >35' To 40' Above Floor, Add	65.63	
For Elevated Installation >40' Above Floor, Add	72.19	
26 05 33 13-0092 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	310.22	68.33
For Work In Restricted Working Space, Add	51.24	
For Elevated Installation >10' To 15' Above Floor, Add	17.08	
For Elevated Installation >15' To 20' Above Floor, Add	34.16	
For Elevated Installation >20' To 25' Above Floor, Add	42.70	
For Elevated Installation >25' To 30' Above Floor, Add	59.78	
For Elevated Installation >30' To 35' Above Floor, Add	68.32	
For Elevated Installation >35' To 40' Above Floor, Add	85.41	
For Elevated Installation >40' Above Floor, Add	93.95	
26 05 33 13-0093 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	535.67	111.42
For Work In Restricted Working Space, Add	83.57	
For Elevated Installation >10' To 15' Above Floor, Add	27.86	
For Elevated Installation >15' To 20' Above Floor, Add	55.71	
For Elevated Installation >20' To 25' Above Floor, Add	69.64	
For Elevated Installation >25' To 30' Above Floor, Add	97.50	
For Elevated Installation >30' To 35' Above Floor, Add	111.43	
For Elevated Installation >35' To 40' Above Floor, Add	139.29	
For Elevated Installation >40' Above Floor, Add	153.21	
26 05 33 13-0094 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	805.27	167.38
For Work In Restricted Working Space, Add	125.53	
For Elevated Installation >10' To 15' Above Floor, Add	41.84	
For Elevated Installation >15' To 20' Above Floor, Add	83.68	
For Elevated Installation >20' To 25' Above Floor, Add	104.61	
For Elevated Installation >25' To 30' Above Floor, Add	146.45	
For Elevated Installation >30' To 35' Above Floor, Add	167.37	
For Elevated Installation >35' To 40' Above Floor, Add	209.21	
For Elevated Installation >40' Above Floor, Add	230.13	

26 05 33 13-0095 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow (26 05 33 13-0060)

See CSI section 26 05 33 13-2508 for conduit field bending.

26 05 33 13-0096 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	89.00	30.57
For Work In Restricted Working Space, Add	18.35	
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0097 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	102.59	35.41
For Work In Restricted Working Space, Add	21.24	
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
26 05 33 13-0098 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	118.54	40.24
For Work In Restricted Working Space, Add	24.14	
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
26 05 33 13-0099 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	133.38	44.26
For Work In Restricted Working Space, Add	26.56	
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
26 05 33 13-0100 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0101 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	96.23	30.57
For Work In Restricted Working Space, Add	18.35	
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
26 05 33 13-0102 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	111.87	35.41
For Work In Restricted Working Space, Add	21.24	
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
26 05 33 13-0103 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	122.77	40.24
For Work In Restricted Working Space, Add	24.14	
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
26 05 33 13-0104 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	138.10	44.26
For Work In Restricted Working Space, Add	26.56	
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
26 05 33 13-0105 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	183.01	55.53
For Work In Restricted Working Space, Add	33.32	
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
26 05 33 13-0106 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	246.46	75.64
For Work In Restricted Working Space, Add	45.39	
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.82	
For Elevated Installation >25' To 30' Above Floor, Add	52.95	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.21	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-0107	Rigid Galvanized Steel (RGS) 18" Large Radius Elbow (26 05 33 13-0060) See CSI section 26 05 33 13-2508 for conduit field bending.				
26 05 33 13-0108	EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 96.57	30.57			
	For Work In Restricted Working Space, Add	18.35			
	For Elevated Installation >10' To 15' Above Floor, Add	6.12			
	For Elevated Installation >15' To 20' Above Floor, Add	12.23			
	For Elevated Installation >20' To 25' Above Floor, Add	15.29			
	For Elevated Installation >25' To 30' Above Floor, Add	21.41			
	For Elevated Installation >30' To 35' Above Floor, Add	24.46			
	For Elevated Installation >35' To 40' Above Floor, Add	30.58			
	For Elevated Installation >40' Above Floor, Add	33.64			
26 05 33 13-0109	EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 110.96	35.41			
	For Work In Restricted Working Space, Add	21.24			
	For Elevated Installation >10' To 15' Above Floor, Add	7.08			
	For Elevated Installation >15' To 20' Above Floor, Add	14.16			
	For Elevated Installation >20' To 25' Above Floor, Add	17.70			
	For Elevated Installation >25' To 30' Above Floor, Add	24.78			
	For Elevated Installation >30' To 35' Above Floor, Add	28.32			
	For Elevated Installation >35' To 40' Above Floor, Add	35.41			
	For Elevated Installation >40' Above Floor, Add	38.95			
26 05 33 13-0110	EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 127.34	40.24			
	For Work In Restricted Working Space, Add	24.14			
	For Elevated Installation >10' To 15' Above Floor, Add	8.05			
	For Elevated Installation >15' To 20' Above Floor, Add	16.09			
	For Elevated Installation >20' To 25' Above Floor, Add	20.12			
	For Elevated Installation >25' To 30' Above Floor, Add	28.16			
	For Elevated Installation >30' To 35' Above Floor, Add	32.19			
	For Elevated Installation >35' To 40' Above Floor, Add	40.24			
	For Elevated Installation >40' Above Floor, Add	44.26			
26 05 33 13-0111	EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 148.33	44.26			
	For Work In Restricted Working Space, Add	26.56			
	For Elevated Installation >10' To 15' Above Floor, Add	8.85			
	For Elevated Installation >15' To 20' Above Floor, Add	17.70			
	For Elevated Installation >20' To 25' Above Floor, Add	22.13			
	For Elevated Installation >25' To 30' Above Floor, Add	30.98			
	For Elevated Installation >30' To 35' Above Floor, Add	35.41			
	For Elevated Installation >35' To 40' Above Floor, Add	44.26			
	For Elevated Installation >40' Above Floor, Add	48.69			
26 05 33 13-0112	EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 192.54	55.53			
	For Work In Restricted Working Space, Add	33.32			
	For Elevated Installation >10' To 15' Above Floor, Add	11.11			
	For Elevated Installation >15' To 20' Above Floor, Add	22.21			
	For Elevated Installation >20' To 25' Above Floor, Add	27.76			
	For Elevated Installation >25' To 30' Above Floor, Add	38.87			
	For Elevated Installation >30' To 35' Above Floor, Add	44.42			
	For Elevated Installation >35' To 40' Above Floor, Add	55.53			
	For Elevated Installation >40' Above Floor, Add	61.08			
26 05 33 13-0113	EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 254.15	75.64			
	For Work In Restricted Working Space, Add	45.39			
	For Elevated Installation >10' To 15' Above Floor, Add	15.13			
	For Elevated Installation >15' To 20' Above Floor, Add	30.26			
	For Elevated Installation >20' To 25' Above Floor, Add	37.82			
	For Elevated Installation >25' To 30' Above Floor, Add	52.95			
	For Elevated Installation >30' To 35' Above Floor, Add	60.52			
	For Elevated Installation >35' To 40' Above Floor, Add	75.65			
	For Elevated Installation >40' Above Floor, Add	83.21			
26 05 33 13-0114	EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 315.99	85.30			
	For Work In Restricted Working Space, Add	51.18			
	For Elevated Installation >10' To 15' Above Floor, Add	17.06			
	For Elevated Installation >15' To 20' Above Floor, Add	34.12			
	For Elevated Installation >20' To 25' Above Floor, Add	42.65			
	For Elevated Installation >25' To 30' Above Floor, Add	59.71			
	For Elevated Installation >30' To 35' Above Floor, Add	68.24			
	For Elevated Installation >35' To 40' Above Floor, Add	85.30			
	For Elevated Installation >40' Above Floor, Add	93.83			
26 05 33 13-0115	EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 384.55	111.05			
	For Work In Restricted Working Space, Add	66.63			
	For Elevated Installation >10' To 15' Above Floor, Add	22.21			
	For Elevated Installation >15' To 20' Above Floor, Add	44.42			
	For Elevated Installation >20' To 25' Above Floor, Add	55.53			
	For Elevated Installation >25' To 30' Above Floor, Add	77.74			
	For Elevated Installation >30' To 35' Above Floor, Add	88.84			
	For Elevated Installation >35' To 40' Above Floor, Add	111.05			
	For Elevated Installation >40' Above Floor, Add	122.16			

26 05 33 13-0116 **Rigid Galvanized Steel (RGS) 24" Large Radius Elbow** (26 05 33 13-0060)
See CSI section 26 05 33 13-2508 for conduit field bending.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0117 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	108.08	30.57
For Work In Restricted Working Space, Add	18.35	
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
26 05 33 13-0118 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	122.25	35.41
For Work In Restricted Working Space, Add	21.24	
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
26 05 33 13-0119 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	135.80	40.24
For Work In Restricted Working Space, Add	24.14	
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
26 05 33 13-0120 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	160.80	44.26
For Work In Restricted Working Space, Add	26.56	
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
26 05 33 13-0121 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	209.55	55.53
For Work In Restricted Working Space, Add	33.32	
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
26 05 33 13-0122 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	280.81	75.64
For Work In Restricted Working Space, Add	45.39	
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.82	
For Elevated Installation >25' To 30' Above Floor, Add	52.95	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.21	
26 05 33 13-0123 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	341.91	85.30
For Work In Restricted Working Space, Add	51.18	
For Elevated Installation >10' To 15' Above Floor, Add	17.06	
For Elevated Installation >15' To 20' Above Floor, Add	34.12	
For Elevated Installation >20' To 25' Above Floor, Add	42.65	
For Elevated Installation >25' To 30' Above Floor, Add	59.71	
For Elevated Installation >30' To 35' Above Floor, Add	68.24	
For Elevated Installation >35' To 40' Above Floor, Add	85.30	
For Elevated Installation >40' Above Floor, Add	93.83	
26 05 33 13-0124 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	405.22	111.05
For Work In Restricted Working Space, Add	66.63	
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
26 05 33 13-0125 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0126 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	107.38	30.57
For Work In Restricted Working Space, Add	18.35	
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0127 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	130.65	35.41
For Work In Restricted Working Space, Add	21.24	
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
26 05 33 13-0128 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	144.90	40.24
For Work In Restricted Working Space, Add	24.14	
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
26 05 33 13-0129 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	172.69	44.26
For Work In Restricted Working Space, Add	26.56	
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
26 05 33 13-0130 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	225.87	55.53
For Work In Restricted Working Space, Add	33.32	
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
26 05 33 13-0131 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	301.87	75.64
For Work In Restricted Working Space, Add	45.39	
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.82	
For Elevated Installation >25' To 30' Above Floor, Add	52.95	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.21	
26 05 33 13-0132 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	367.54	85.30
For Work In Restricted Working Space, Add	51.18	
For Elevated Installation >10' To 15' Above Floor, Add	17.06	
For Elevated Installation >15' To 20' Above Floor, Add	34.12	
For Elevated Installation >20' To 25' Above Floor, Add	42.65	
For Elevated Installation >25' To 30' Above Floor, Add	59.71	
For Elevated Installation >30' To 35' Above Floor, Add	68.24	
For Elevated Installation >35' To 40' Above Floor, Add	85.30	
For Elevated Installation >40' Above Floor, Add	93.83	
26 05 33 13-0133 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	443.15	111.05
For Work In Restricted Working Space, Add	66.63	
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
26 05 33 13-0134 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	646.04	181.06
For Work In Restricted Working Space, Add	108.63	
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	

26 05 33 13-0135 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow (26 05 33 13-0060)

See CSI section 26 05 33 13-2508 for conduit field bending.

26 05 33 13-0136 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	113.53	30.57
For Work In Restricted Working Space, Add	18.35	
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0137 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	134.79	35.41
For Work In Restricted Working Space, Add	21.24	
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
26 05 33 13-0138 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	160.83	40.24
For Work In Restricted Working Space, Add	24.14	
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
26 05 33 13-0139 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	181.97	44.26
For Work In Restricted Working Space, Add	26.56	
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
26 05 33 13-0140 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	245.22	55.53
For Work In Restricted Working Space, Add	33.32	
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
26 05 33 13-0141 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	319.88	75.64
For Work In Restricted Working Space, Add	45.39	
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.82	
For Elevated Installation >25' To 30' Above Floor, Add	52.95	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.21	
26 05 33 13-0142 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	400.64	85.30
For Work In Restricted Working Space, Add	51.18	
For Elevated Installation >10' To 15' Above Floor, Add	17.06	
For Elevated Installation >15' To 20' Above Floor, Add	34.12	
For Elevated Installation >20' To 25' Above Floor, Add	42.65	
For Elevated Installation >25' To 30' Above Floor, Add	59.71	
For Elevated Installation >30' To 35' Above Floor, Add	68.24	
For Elevated Installation >35' To 40' Above Floor, Add	85.30	
For Elevated Installation >40' Above Floor, Add	93.83	
26 05 33 13-0143 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	461.00	111.05
For Work In Restricted Working Space, Add	66.63	
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
26 05 33 13-0144 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	791.65	181.06
For Work In Restricted Working Space, Add	108.63	
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	
26 05 33 13-0145 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,015.87	271.99
For Work In Restricted Working Space, Add	163.19	
For Elevated Installation >10' To 15' Above Floor, Add	54.40	
For Elevated Installation >15' To 20' Above Floor, Add	108.79	
For Elevated Installation >20' To 25' Above Floor, Add	135.99	
For Elevated Installation >25' To 30' Above Floor, Add	190.39	
For Elevated Installation >30' To 35' Above Floor, Add	217.59	
For Elevated Installation >35' To 40' Above Floor, Add	271.99	
For Elevated Installation >40' Above Floor, Add	299.18	
26 05 33 13-0146 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow (26 05 33 13-0060)		
See CSI section 26 05 33 13-2508 for conduit field bending.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0147 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	122.54	30.57
For Work In Restricted Working Space, Add	18.35	
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
26 05 33 13-0148 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	145.79	35.41
For Work In Restricted Working Space, Add	21.24	
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
26 05 33 13-0149 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	172.53	40.24
For Work In Restricted Working Space, Add	24.14	
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
26 05 33 13-0150 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	194.20	44.26
For Work In Restricted Working Space, Add	26.56	
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
26 05 33 13-0151 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	260.02	55.53
For Work In Restricted Working Space, Add	33.32	
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
26 05 33 13-0152 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	346.26	75.64
For Work In Restricted Working Space, Add	45.39	
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.82	
For Elevated Installation >25' To 30' Above Floor, Add	52.95	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.21	
26 05 33 13-0153 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	427.10	85.30
For Work In Restricted Working Space, Add	51.18	
For Elevated Installation >10' To 15' Above Floor, Add	17.06	
For Elevated Installation >15' To 20' Above Floor, Add	34.12	
For Elevated Installation >20' To 25' Above Floor, Add	42.65	
For Elevated Installation >25' To 30' Above Floor, Add	59.71	
For Elevated Installation >30' To 35' Above Floor, Add	68.24	
For Elevated Installation >35' To 40' Above Floor, Add	85.30	
For Elevated Installation >40' Above Floor, Add	93.83	
26 05 33 13-0154 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	537.14	111.05
For Work In Restricted Working Space, Add	66.63	
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
26 05 33 13-0155 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	896.69	181.06
For Work In Restricted Working Space, Add	108.63	
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0156 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	1,106.83 163.19 54.40 108.79 135.99 190.39 217.59 271.99 299.18	271.99
26 05 33 13-0157 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow (26 05 33 13-0060) See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0158 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	130.04 18.35 6.12 12.23 15.29 21.41 24.46 30.58 33.64	30.57
26 05 33 13-0159 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	154.27 21.24 7.08 14.16 17.70 24.78 28.32 35.41 38.95	35.41
26 05 33 13-0160 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	179.92 24.14 8.05 16.09 20.12 28.16 32.19 40.24 44.26	40.24
26 05 33 13-0161 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	217.04 26.56 8.85 17.70 22.13 30.98 35.41 44.26 48.69	44.26
26 05 33 13-0162 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	287.32 33.32 11.11 22.21 27.76 38.87 44.42 55.53 61.08	55.53
26 05 33 13-0163 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	372.85 45.39 15.13 30.26 37.82 52.95 60.52 75.65 83.21	75.64
26 05 33 13-0164 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	460.37 51.18 17.06 34.12 42.65 59.71 68.24 85.30 93.83	85.30
26 05 33 13-0165 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	577.56 66.63 22.21 44.42 55.53 77.74 88.84 111.05 122.16	111.05

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0166 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	929.58	181.06
For Work In Restricted Working Space, Add	108.63	
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	
26 05 33 13-0167 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,125.23	271.99
For Work In Restricted Working Space, Add	163.19	
For Elevated Installation >10' To 15' Above Floor, Add	54.40	
For Elevated Installation >15' To 20' Above Floor, Add	108.79	
For Elevated Installation >20' To 25' Above Floor, Add	135.99	
For Elevated Installation >25' To 30' Above Floor, Add	190.39	
For Elevated Installation >30' To 35' Above Floor, Add	217.59	
For Elevated Installation >35' To 40' Above Floor, Add	271.99	
For Elevated Installation >40' Above Floor, Add	299.18	
26 05 33 13-0168 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0060)		
26 05 33 13-0169 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	16.19	7.90
For Work In Restricted Working Space, Add	4.73	
For Elevated Installation >10' To 15' Above Floor, Add	1.58	
For Elevated Installation >15' To 20' Above Floor, Add	3.16	
For Elevated Installation >20' To 25' Above Floor, Add	3.95	
For Elevated Installation >25' To 30' Above Floor, Add	5.52	
For Elevated Installation >30' To 35' Above Floor, Add	6.31	
For Elevated Installation >35' To 40' Above Floor, Add	7.89	
For Elevated Installation >40' Above Floor, Add	8.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.73	
26 05 33 13-0170 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	17.38	8.42
For Work In Restricted Working Space, Add	5.05	
For Elevated Installation >10' To 15' Above Floor, Add	1.68	
For Elevated Installation >15' To 20' Above Floor, Add	3.37	
For Elevated Installation >20' To 25' Above Floor, Add	4.21	
For Elevated Installation >25' To 30' Above Floor, Add	5.89	
For Elevated Installation >30' To 35' Above Floor, Add	6.74	
For Elevated Installation >35' To 40' Above Floor, Add	8.42	
For Elevated Installation >40' Above Floor, Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.05	
26 05 33 13-0171 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	19.75	9.47
For Work In Restricted Working Space, Add	5.68	
For Elevated Installation >10' To 15' Above Floor, Add	1.89	
For Elevated Installation >15' To 20' Above Floor, Add	3.79	
For Elevated Installation >20' To 25' Above Floor, Add	4.74	
For Elevated Installation >25' To 30' Above Floor, Add	6.63	
For Elevated Installation >30' To 35' Above Floor, Add	7.58	
For Elevated Installation >35' To 40' Above Floor, Add	9.47	
For Elevated Installation >40' Above Floor, Add	10.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.68	
26 05 33 13-0172 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	22.22	10.53
For Work In Restricted Working Space, Add	6.31	
For Elevated Installation >10' To 15' Above Floor, Add	2.10	
For Elevated Installation >15' To 20' Above Floor, Add	4.21	
For Elevated Installation >20' To 25' Above Floor, Add	5.26	
For Elevated Installation >25' To 30' Above Floor, Add	7.36	
For Elevated Installation >30' To 35' Above Floor, Add	8.42	
For Elevated Installation >35' To 40' Above Floor, Add	10.52	
For Elevated Installation >40' Above Floor, Add	11.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.31	
26 05 33 13-0173 EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	27.92	13.15
For Work In Restricted Working Space, Add	7.89	
For Elevated Installation >10' To 15' Above Floor, Add	2.63	
For Elevated Installation >15' To 20' Above Floor, Add	5.26	
For Elevated Installation >20' To 25' Above Floor, Add	6.58	
For Elevated Installation >25' To 30' Above Floor, Add	9.21	
For Elevated Installation >30' To 35' Above Floor, Add	10.52	
For Elevated Installation >35' To 40' Above Floor, Add	13.16	
For Elevated Installation >40' Above Floor, Add	14.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.89	
26 05 33 13-0174 EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	34.56	15.78
For Work In Restricted Working Space, Add	9.47	
For Elevated Installation >10' To 15' Above Floor, Add	3.16	
For Elevated Installation >15' To 20' Above Floor, Add	6.31	
For Elevated Installation >20' To 25' Above Floor, Add	7.89	
For Elevated Installation >25' To 30' Above Floor, Add	11.05	
For Elevated Installation >30' To 35' Above Floor, Add	12.63	
For Elevated Installation >35' To 40' Above Floor, Add	15.79	
For Elevated Installation >40' Above Floor, Add	17.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0175 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	43.43	18.41
For Work In Restricted Working Space, Add	11.05	
For Elevated Installation >10' To 15' Above Floor, Add	3.68	
For Elevated Installation >15' To 20' Above Floor, Add	7.37	
For Elevated Installation >20' To 25' Above Floor, Add	9.21	
For Elevated Installation >25' To 30' Above Floor, Add	12.89	
For Elevated Installation >30' To 35' Above Floor, Add	14.73	
For Elevated Installation >35' To 40' Above Floor, Add	18.42	
For Elevated Installation >40' Above Floor, Add	20.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.05	
26 05 33 13-0176 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	49.05	21.04
For Work In Restricted Working Space, Add	12.63	
For Elevated Installation >10' To 15' Above Floor, Add	4.21	
For Elevated Installation >15' To 20' Above Floor, Add	8.42	
For Elevated Installation >20' To 25' Above Floor, Add	10.52	
For Elevated Installation >25' To 30' Above Floor, Add	14.73	
For Elevated Installation >30' To 35' Above Floor, Add	16.84	
For Elevated Installation >35' To 40' Above Floor, Add	21.05	
For Elevated Installation >40' Above Floor, Add	23.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	
26 05 33 13-0177 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	57.01	19.81
For Work In Restricted Working Space, Add	14.21	
For Elevated Installation >10' To 15' Above Floor, Add	4.74	
For Elevated Installation >15' To 20' Above Floor, Add	9.47	
For Elevated Installation >20' To 25' Above Floor, Add	11.84	
For Elevated Installation >25' To 30' Above Floor, Add	16.57	
For Elevated Installation >30' To 35' Above Floor, Add	18.94	
For Elevated Installation >35' To 40' Above Floor, Add	23.68	
For Elevated Installation >40' Above Floor, Add	26.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.21	
26 05 33 13-0178 EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	63.27	26.31
For Work In Restricted Working Space, Add	15.79	
For Elevated Installation >10' To 15' Above Floor, Add	5.26	
For Elevated Installation >15' To 20' Above Floor, Add	10.52	
For Elevated Installation >20' To 25' Above Floor, Add	13.16	
For Elevated Installation >25' To 30' Above Floor, Add	18.42	
For Elevated Installation >30' To 35' Above Floor, Add	21.05	
For Elevated Installation >35' To 40' Above Floor, Add	26.31	
For Elevated Installation >40' Above Floor, Add	28.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.79	
26 05 33 13-0179 EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	76.03	28.94
For Work In Restricted Working Space, Add	17.36	
For Elevated Installation >10' To 15' Above Floor, Add	5.79	
For Elevated Installation >15' To 20' Above Floor, Add	11.58	
For Elevated Installation >20' To 25' Above Floor, Add	14.47	
For Elevated Installation >25' To 30' Above Floor, Add	20.26	
For Elevated Installation >30' To 35' Above Floor, Add	23.15	
For Elevated Installation >35' To 40' Above Floor, Add	28.94	
For Elevated Installation >40' Above Floor, Add	31.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.36	
26 05 33 13-0180 EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	109.09	31.57
For Work In Restricted Working Space, Add	18.94	
For Elevated Installation >10' To 15' Above Floor, Add	6.31	
For Elevated Installation >15' To 20' Above Floor, Add	12.63	
For Elevated Installation >20' To 25' Above Floor, Add	15.79	
For Elevated Installation >25' To 30' Above Floor, Add	22.10	
For Elevated Installation >30' To 35' Above Floor, Add	25.26	
For Elevated Installation >35' To 40' Above Floor, Add	31.57	
For Elevated Installation >40' Above Floor, Add	34.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.94	
26 05 33 13-0181 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0060)		
26 05 33 13-0182 EA 1/2" Rigid Galvanized Steel (RGS) Steel Bushing	19.58	9.28
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-0183 EA 3/4" Rigid Galvanized Steel (RGS) Steel Bushing	21.28	9.90
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15' Above Floor, Add	1.98	
For Elevated Installation >15' To 20' Above Floor, Add	3.96	
For Elevated Installation >20' To 25' Above Floor, Add	4.95	
For Elevated Installation >25' To 30' Above Floor, Add	6.93	
For Elevated Installation >30' To 35' Above Floor, Add	7.92	
For Elevated Installation >35' To 40' Above Floor, Add	9.91	
For Elevated Installation >40' Above Floor, Add	10.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0184 EA 1" Rigid Galvanized Steel (RGS) Steel Bushing	24.85	11.14
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15' Above Floor, Add	2.23	
For Elevated Installation >15' To 20' Above Floor, Add	4.46	
For Elevated Installation >20' To 25' Above Floor, Add	5.57	
For Elevated Installation >25' To 30' Above Floor, Add	7.80	
For Elevated Installation >30' To 35' Above Floor, Add	8.92	
For Elevated Installation >35' To 40' Above Floor, Add	11.15	
For Elevated Installation >40' Above Floor, Add	12.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.69	
26 05 33 13-0185 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing	27.92	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0186 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	35.63	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0187 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing	42.17	18.57
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 05 33 13-0188 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	59.13	21.66
For Work In Restricted Working Space, Add	13.00	
For Elevated Installation >10' To 15' Above Floor, Add	4.33	
For Elevated Installation >15' To 20' Above Floor, Add	8.67	
For Elevated Installation >20' To 25' Above Floor, Add	10.83	
For Elevated Installation >25' To 30' Above Floor, Add	15.17	
For Elevated Installation >30' To 35' Above Floor, Add	17.33	
For Elevated Installation >35' To 40' Above Floor, Add	21.67	
For Elevated Installation >40' Above Floor, Add	23.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 33 13-0189 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing	70.25	24.76
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.86	
26 05 33 13-0190 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	104.12	27.85
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.71	
26 05 33 13-0191 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing	140.41	30.95
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0192 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.18 20.43 6.61 13.62 17.02 23.83 27.24 34.05 37.45 20.43	34.05
26 05 33 13-0193 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	275.28 22.28 7.43 14.86 18.57 26.00 29.71 37.14 40.85 22.28	37.14
26 05 33 13-0194 Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0060)		
26 05 33 13-0195 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.77 5.57 1.86 3.71 4.64 6.50 7.43 9.29 10.21 5.57	9.28
26 05 33 13-0196 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.08 5.94 1.98 3.96 4.95 6.93 7.92 9.91 10.90 5.94	9.90
26 05 33 13-0197 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.11 6.69 2.23 4.46 5.57 7.80 8.92 11.15 12.26 6.69	11.14
26 05 33 13-0198 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.74 7.43 2.48 4.95 6.19 8.67 9.90 12.38 13.62 7.43	12.38
26 05 33 13-0199 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.60 9.29 3.10 6.19 7.74 10.83 12.38 15.48 17.02 9.29	15.47
26 05 33 13-0200 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.22 11.14 3.71 7.43 9.29 13.00 14.86 18.57 20.43 11.14	18.57

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0201 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	68.69	21.66
For Work In Restricted Working Space, Add	13.00	
For Elevated Installation >10' To 15' Above Floor, Add	4.33	
For Elevated Installation >15' To 20' Above Floor, Add	8.67	
For Elevated Installation >20' To 25' Above Floor, Add	10.83	
For Elevated Installation >25' To 30' Above Floor, Add	15.17	
For Elevated Installation >30' To 35' Above Floor, Add	17.33	
For Elevated Installation >35' To 40' Above Floor, Add	21.67	
For Elevated Installation >40' Above Floor, Add	23.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 33 13-0202 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	81.46	24.76
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.86	
26 05 33 13-0203 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	106.21	27.85
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.71	
26 05 33 13-0204 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	149.76	30.95
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33 13-0205 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	197.36	34.05
For Work In Restricted Working Space, Add	20.43	
For Elevated Installation >10' To 15' Above Floor, Add	6.81	
For Elevated Installation >15' To 20' Above Floor, Add	13.62	
For Elevated Installation >20' To 25' Above Floor, Add	17.02	
For Elevated Installation >25' To 30' Above Floor, Add	23.83	
For Elevated Installation >30' To 35' Above Floor, Add	27.24	
For Elevated Installation >35' To 40' Above Floor, Add	34.05	
For Elevated Installation >40' Above Floor, Add	37.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	
26 05 33 13-0206 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	278.86	37.14
For Work In Restricted Working Space, Add	22.28	
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.86	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	26.00	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.28	
26 05 33 13-0207 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0060)		
26 05 33 13-0208 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	31.16	11.14
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15' Above Floor, Add	2.23	
For Elevated Installation >15' To 20' Above Floor, Add	4.46	
For Elevated Installation >20' To 25' Above Floor, Add	5.57	
For Elevated Installation >25' To 30' Above Floor, Add	7.80	
For Elevated Installation >30' To 35' Above Floor, Add	8.92	
For Elevated Installation >35' To 40' Above Floor, Add	11.15	
For Elevated Installation >40' Above Floor, Add	12.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.69	
26 05 33 13-0209 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	34.89	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0210	EA	1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	39.86	13.62
			For Work In Restricted Working Space, Add	8.17	
			For Elevated Installation >10' To 15' Above Floor, Add	2.72	
			For Elevated Installation >15' To 20' Above Floor, Add	5.45	
			For Elevated Installation >20' To 25' Above Floor, Add	6.81	
			For Elevated Installation >25' To 30' Above Floor, Add	9.53	
			For Elevated Installation >30' To 35' Above Floor, Add	10.89	
			For Elevated Installation >35' To 40' Above Floor, Add	13.62	
			For Elevated Installation >40' Above Floor, Add	14.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33	13-0211	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	47.29	15.47
			For Work In Restricted Working Space, Add	9.29	
			For Elevated Installation >10' To 15' Above Floor, Add	3.10	
			For Elevated Installation >15' To 20' Above Floor, Add	6.19	
			For Elevated Installation >20' To 25' Above Floor, Add	7.74	
			For Elevated Installation >25' To 30' Above Floor, Add	10.83	
			For Elevated Installation >30' To 35' Above Floor, Add	12.38	
			For Elevated Installation >35' To 40' Above Floor, Add	15.48	
			For Elevated Installation >40' Above Floor, Add	17.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33	13-0212	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	57.24	19.19
			For Work In Restricted Working Space, Add	11.51	
			For Elevated Installation >10' To 15' Above Floor, Add	3.84	
			For Elevated Installation >15' To 20' Above Floor, Add	7.68	
			For Elevated Installation >20' To 25' Above Floor, Add	9.60	
			For Elevated Installation >25' To 30' Above Floor, Add	13.43	
			For Elevated Installation >30' To 35' Above Floor, Add	15.35	
			For Elevated Installation >35' To 40' Above Floor, Add	19.19	
			For Elevated Installation >40' Above Floor, Add	21.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.51	
26 05 33	13-0213	EA	2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	72.01	22.90
			For Work In Restricted Working Space, Add	13.74	
			For Elevated Installation >10' To 15' Above Floor, Add	4.58	
			For Elevated Installation >15' To 20' Above Floor, Add	9.16	
			For Elevated Installation >20' To 25' Above Floor, Add	11.45	
			For Elevated Installation >25' To 30' Above Floor, Add	16.03	
			For Elevated Installation >30' To 35' Above Floor, Add	18.32	
			For Elevated Installation >35' To 40' Above Floor, Add	22.91	
			For Elevated Installation >40' Above Floor, Add	25.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.74	
26 05 33	13-0214	EA	2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	96.03	26.62
			For Work In Restricted Working Space, Add	15.97	
			For Elevated Installation >10' To 15' Above Floor, Add	5.32	
			For Elevated Installation >15' To 20' Above Floor, Add	10.65	
			For Elevated Installation >20' To 25' Above Floor, Add	13.31	
			For Elevated Installation >25' To 30' Above Floor, Add	18.63	
			For Elevated Installation >30' To 35' Above Floor, Add	21.29	
			For Elevated Installation >35' To 40' Above Floor, Add	26.62	
			For Elevated Installation >40' Above Floor, Add	29.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.97	
26 05 33	13-0215	EA	3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	106.06	30.95
			For Work In Restricted Working Space, Add	18.57	
			For Elevated Installation >10' To 15' Above Floor, Add	6.19	
			For Elevated Installation >15' To 20' Above Floor, Add	12.38	
			For Elevated Installation >20' To 25' Above Floor, Add	15.48	
			For Elevated Installation >25' To 30' Above Floor, Add	21.67	
			For Elevated Installation >30' To 35' Above Floor, Add	24.76	
			For Elevated Installation >35' To 40' Above Floor, Add	30.95	
			For Elevated Installation >40' Above Floor, Add	34.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33	13-0216	EA	3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	119.90	34.67
			For Work In Restricted Working Space, Add	20.80	
			For Elevated Installation >10' To 15' Above Floor, Add	6.93	
			For Elevated Installation >15' To 20' Above Floor, Add	13.87	
			For Elevated Installation >20' To 25' Above Floor, Add	17.33	
			For Elevated Installation >25' To 30' Above Floor, Add	24.27	
			For Elevated Installation >30' To 35' Above Floor, Add	27.73	
			For Elevated Installation >35' To 40' Above Floor, Add	34.67	
			For Elevated Installation >40' Above Floor, Add	38.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.80	
26 05 33	13-0217	EA	4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	154.16	38.38
			For Work In Restricted Working Space, Add	23.03	
			For Elevated Installation >10' To 15' Above Floor, Add	7.68	
			For Elevated Installation >15' To 20' Above Floor, Add	15.35	
			For Elevated Installation >20' To 25' Above Floor, Add	19.19	
			For Elevated Installation >25' To 30' Above Floor, Add	26.86	
			For Elevated Installation >30' To 35' Above Floor, Add	30.70	
			For Elevated Installation >35' To 40' Above Floor, Add	38.38	
			For Elevated Installation >40' Above Floor, Add	42.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.03	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0218 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	217.44	42.09
For Work In Restricted Working Space, Add	25.26	
For Elevated Installation >10' To 15' Above Floor, Add	8.42	
For Elevated Installation >15' To 20' Above Floor, Add	16.84	
For Elevated Installation >20' To 25' Above Floor, Add	21.05	
For Elevated Installation >25' To 30' Above Floor, Add	29.47	
For Elevated Installation >30' To 35' Above Floor, Add	33.68	
For Elevated Installation >35' To 40' Above Floor, Add	42.10	
For Elevated Installation >40' Above Floor, Add	46.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.26	
26 05 33 13-0219 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	298.25	46.43
For Work In Restricted Working Space, Add	27.86	
For Elevated Installation >10' To 15' Above Floor, Add	9.29	
For Elevated Installation >15' To 20' Above Floor, Add	18.57	
For Elevated Installation >20' To 25' Above Floor, Add	23.21	
For Elevated Installation >25' To 30' Above Floor, Add	32.50	
For Elevated Installation >30' To 35' Above Floor, Add	37.14	
For Elevated Installation >35' To 40' Above Floor, Add	46.43	
For Elevated Installation >40' Above Floor, Add	51.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.86	
26 05 33 13-0220 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0060)		
26 05 33 13-0221 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	18.55	5.70
For Work In Restricted Working Space, Add	4.24	
For Elevated Installation >10' To 15' Above Floor, Add	1.41	
For Elevated Installation >15' To 20' Above Floor, Add	2.83	
For Elevated Installation >20' To 25' Above Floor, Add	3.53	
For Elevated Installation >25' To 30' Above Floor, Add	4.95	
For Elevated Installation >30' To 35' Above Floor, Add	5.65	
For Elevated Installation >35' To 40' Above Floor, Add	7.07	
For Elevated Installation >40' Above Floor, Add	7.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24	
26 05 33 13-0222 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	22.50	6.56
For Work In Restricted Working Space, Add	4.91	
For Elevated Installation >10' To 15' Above Floor, Add	1.64	
For Elevated Installation >15' To 20' Above Floor, Add	3.27	
For Elevated Installation >20' To 25' Above Floor, Add	4.09	
For Elevated Installation >25' To 30' Above Floor, Add	5.73	
For Elevated Installation >30' To 35' Above Floor, Add	6.54	
For Elevated Installation >35' To 40' Above Floor, Add	8.18	
For Elevated Installation >40' Above Floor, Add	9.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.91	
26 05 33 13-0223 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	29.52	7.93
For Work In Restricted Working Space, Add	5.92	
For Elevated Installation >10' To 15' Above Floor, Add	1.97	
For Elevated Installation >15' To 20' Above Floor, Add	3.95	
For Elevated Installation >20' To 25' Above Floor, Add	4.93	
For Elevated Installation >25' To 30' Above Floor, Add	6.91	
For Elevated Installation >30' To 35' Above Floor, Add	7.89	
For Elevated Installation >35' To 40' Above Floor, Add	9.87	
For Elevated Installation >40' Above Floor, Add	10.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.92	
26 05 33 13-0224 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	43.71	9.78
For Work In Restricted Working Space, Add	7.36	
For Elevated Installation >10' To 15' Above Floor, Add	2.45	
For Elevated Installation >15' To 20' Above Floor, Add	4.90	
For Elevated Installation >20' To 25' Above Floor, Add	6.13	
For Elevated Installation >25' To 30' Above Floor, Add	8.58	
For Elevated Installation >30' To 35' Above Floor, Add	9.81	
For Elevated Installation >35' To 40' Above Floor, Add	12.26	
For Elevated Installation >40' Above Floor, Add	13.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.36	
26 05 33 13-0225 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	59.20	13.12
For Work In Restricted Working Space, Add	9.85	
For Elevated Installation >10' To 15' Above Floor, Add	3.28	
For Elevated Installation >15' To 20' Above Floor, Add	6.57	
For Elevated Installation >20' To 25' Above Floor, Add	8.21	
For Elevated Installation >25' To 30' Above Floor, Add	11.49	
For Elevated Installation >30' To 35' Above Floor, Add	13.14	
For Elevated Installation >35' To 40' Above Floor, Add	16.42	
For Elevated Installation >40' Above Floor, Add	18.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.85	
26 05 33 13-0226 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	100.87	19.69
For Work In Restricted Working Space, Add	14.75	
For Elevated Installation >10' To 15' Above Floor, Add	4.92	
For Elevated Installation >15' To 20' Above Floor, Add	9.84	
For Elevated Installation >20' To 25' Above Floor, Add	12.30	
For Elevated Installation >25' To 30' Above Floor, Add	17.21	
For Elevated Installation >30' To 35' Above Floor, Add	19.67	
For Elevated Installation >35' To 40' Above Floor, Add	24.59	
For Elevated Installation >40' Above Floor, Add	27.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.75	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0227	EA	2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	182.39	21.78
		For Work In Restricted Working Space, Add	16.34	
		For Elevated Installation >10' To 15' Above Floor, Add	5.45	
		For Elevated Installation >15' To 20' Above Floor, Add	10.90	
		For Elevated Installation >20' To 25' Above Floor, Add	13.62	
		For Elevated Installation >25' To 30' Above Floor, Add	19.07	
		For Elevated Installation >30' To 35' Above Floor, Add	21.79	
		For Elevated Installation >35' To 40' Above Floor, Add	27.24	
		For Elevated Installation >40' Above Floor, Add	29.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	
26 05 33 13-0228	EA	3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	217.37	26.37
		For Work In Restricted Working Space, Add	19.79	
		For Elevated Installation >10' To 15' Above Floor, Add	6.60	
		For Elevated Installation >15' To 20' Above Floor, Add	13.19	
		For Elevated Installation >20' To 25' Above Floor, Add	16.49	
		For Elevated Installation >25' To 30' Above Floor, Add	23.09	
		For Elevated Installation >30' To 35' Above Floor, Add	26.39	
		For Elevated Installation >35' To 40' Above Floor, Add	32.99	
		For Elevated Installation >40' Above Floor, Add	36.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.79	
26 05 33 13-0229	EA	3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	294.03	33.05
		For Work In Restricted Working Space, Add	24.78	
		For Elevated Installation >10' To 15' Above Floor, Add	8.26	
		For Elevated Installation >15' To 20' Above Floor, Add	16.52	
		For Elevated Installation >20' To 25' Above Floor, Add	20.65	
		For Elevated Installation >25' To 30' Above Floor, Add	28.91	
		For Elevated Installation >30' To 35' Above Floor, Add	33.04	
		For Elevated Installation >35' To 40' Above Floor, Add	41.30	
		For Elevated Installation >40' Above Floor, Add	45.42	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.78	
26 05 33 13-0230	EA	4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	344.41	39.62
		For Work In Restricted Working Space, Add	29.71	
		For Elevated Installation >10' To 15' Above Floor, Add	9.90	
		For Elevated Installation >15' To 20' Above Floor, Add	19.81	
		For Elevated Installation >20' To 25' Above Floor, Add	24.76	
		For Elevated Installation >25' To 30' Above Floor, Add	34.66	
		For Elevated Installation >30' To 35' Above Floor, Add	39.62	
		For Elevated Installation >35' To 40' Above Floor, Add	49.52	
		For Elevated Installation >40' Above Floor, Add	54.47	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 05 33 13-0231	EA	5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	606.03	44.07
		For Work In Restricted Working Space, Add	33.02	
		For Elevated Installation >10' To 15' Above Floor, Add	11.01	
		For Elevated Installation >15' To 20' Above Floor, Add	22.01	
		For Elevated Installation >20' To 25' Above Floor, Add	27.52	
		For Elevated Installation >25' To 30' Above Floor, Add	38.52	
		For Elevated Installation >30' To 35' Above Floor, Add	44.02	
		For Elevated Installation >35' To 40' Above Floor, Add	55.03	
		For Elevated Installation >40' Above Floor, Add	60.53	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.02	
26 05 33 13-0232	EA	6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	724.15	49.52
		For Work In Restricted Working Space, Add	37.13	
		For Elevated Installation >10' To 15' Above Floor, Add	12.38	
		For Elevated Installation >15' To 20' Above Floor, Add	24.75	
		For Elevated Installation >20' To 25' Above Floor, Add	30.94	
		For Elevated Installation >25' To 30' Above Floor, Add	43.32	
		For Elevated Installation >30' To 35' Above Floor, Add	49.51	
		For Elevated Installation >35' To 40' Above Floor, Add	61.89	
		For Elevated Installation >40' Above Floor, Add	68.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.13	
26 05 33 13-0233 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0060)				
26 05 33 13-0234	EA	1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	18.03	8.05
		For Work In Restricted Working Space, Add	4.83	
		For Elevated Installation >10' To 15' Above Floor, Add	1.61	
		For Elevated Installation >15' To 20' Above Floor, Add	3.22	
		For Elevated Installation >20' To 25' Above Floor, Add	4.02	
		For Elevated Installation >25' To 30' Above Floor, Add	5.63	
		For Elevated Installation >30' To 35' Above Floor, Add	6.44	
		For Elevated Installation >35' To 40' Above Floor, Add	8.05	
		For Elevated Installation >40' Above Floor, Add	8.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-0235	EA	3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	20.76	9.28
		For Work In Restricted Working Space, Add	5.57	
		For Elevated Installation >10' To 15' Above Floor, Add	1.86	
		For Elevated Installation >15' To 20' Above Floor, Add	3.71	
		For Elevated Installation >20' To 25' Above Floor, Add	4.64	
		For Elevated Installation >25' To 30' Above Floor, Add	6.50	
		For Elevated Installation >30' To 35' Above Floor, Add	7.43	
		For Elevated Installation >35' To 40' Above Floor, Add	9.29	
		For Elevated Installation >40' Above Floor, Add	10.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0236 EA 1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	26.57	11.76
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-0237 EA 1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	31.11	13.62
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-0238 EA 1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	35.55	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0239 EA 1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	18.19	8.05
For Work In Restricted Working Space, Add	4.83	
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-0240 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	21.00	9.28
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-0241 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	26.84	11.76
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-0242 EA 1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	31.48	13.62
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-0243 EA 1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	36.14	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0244	EA	2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	40.94	17.33
			For Work In Restricted Working Space, Add	10.40	
			For Elevated Installation >10' To 15' Above Floor, Add	3.47	
			For Elevated Installation >15' To 20' Above Floor, Add	6.93	
			For Elevated Installation >20' To 25' Above Floor, Add	8.67	
			For Elevated Installation >25' To 30' Above Floor, Add	12.13	
			For Elevated Installation >30' To 35' Above Floor, Add	13.87	
			For Elevated Installation >35' To 40' Above Floor, Add	17.34	
			For Elevated Installation >40' Above Floor, Add	19.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33	13-0245	EA	1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.36	8.05
			For Work In Restricted Working Space, Add	4.83	
			For Elevated Installation >10' To 15' Above Floor, Add	1.61	
			For Elevated Installation >15' To 20' Above Floor, Add	3.22	
			For Elevated Installation >20' To 25' Above Floor, Add	4.02	
			For Elevated Installation >25' To 30' Above Floor, Add	5.63	
			For Elevated Installation >30' To 35' Above Floor, Add	6.44	
			For Elevated Installation >35' To 40' Above Floor, Add	8.05	
			For Elevated Installation >40' Above Floor, Add	8.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33	13-0246	EA	3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.22	9.28
			For Work In Restricted Working Space, Add	5.57	
			For Elevated Installation >10' To 15' Above Floor, Add	1.86	
			For Elevated Installation >15' To 20' Above Floor, Add	3.71	
			For Elevated Installation >20' To 25' Above Floor, Add	4.64	
			For Elevated Installation >25' To 30' Above Floor, Add	6.50	
			For Elevated Installation >30' To 35' Above Floor, Add	7.43	
			For Elevated Installation >35' To 40' Above Floor, Add	9.29	
			For Elevated Installation >40' Above Floor, Add	10.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33	13-0247	EA	1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	27.22	11.76
			For Work In Restricted Working Space, Add	7.06	
			For Elevated Installation >10' To 15' Above Floor, Add	2.35	
			For Elevated Installation >15' To 20' Above Floor, Add	4.70	
			For Elevated Installation >20' To 25' Above Floor, Add	5.88	
			For Elevated Installation >25' To 30' Above Floor, Add	8.23	
			For Elevated Installation >30' To 35' Above Floor, Add	9.41	
			For Elevated Installation >35' To 40' Above Floor, Add	11.76	
			For Elevated Installation >40' Above Floor, Add	12.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33	13-0248	EA	1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	31.81	13.62
			For Work In Restricted Working Space, Add	8.17	
			For Elevated Installation >10' To 15' Above Floor, Add	2.72	
			For Elevated Installation >15' To 20' Above Floor, Add	5.45	
			For Elevated Installation >20' To 25' Above Floor, Add	6.81	
			For Elevated Installation >25' To 30' Above Floor, Add	9.53	
			For Elevated Installation >30' To 35' Above Floor, Add	10.89	
			For Elevated Installation >35' To 40' Above Floor, Add	13.62	
			For Elevated Installation >40' Above Floor, Add	14.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33	13-0249	EA	1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	36.54	15.47
			For Work In Restricted Working Space, Add	9.29	
			For Elevated Installation >10' To 15' Above Floor, Add	3.10	
			For Elevated Installation >15' To 20' Above Floor, Add	6.19	
			For Elevated Installation >20' To 25' Above Floor, Add	7.74	
			For Elevated Installation >25' To 30' Above Floor, Add	10.83	
			For Elevated Installation >30' To 35' Above Floor, Add	12.38	
			For Elevated Installation >35' To 40' Above Floor, Add	15.48	
			For Elevated Installation >40' Above Floor, Add	17.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33	13-0250	EA	2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	41.91	17.33
			For Work In Restricted Working Space, Add	10.40	
			For Elevated Installation >10' To 15' Above Floor, Add	3.47	
			For Elevated Installation >15' To 20' Above Floor, Add	6.93	
			For Elevated Installation >20' To 25' Above Floor, Add	8.67	
			For Elevated Installation >25' To 30' Above Floor, Add	12.13	
			For Elevated Installation >30' To 35' Above Floor, Add	13.86	
			For Elevated Installation >35' To 40' Above Floor, Add	17.33	
			For Elevated Installation >40' Above Floor, Add	19.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33	13-0251	EA	2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	57.06	21.04
			For Work In Restricted Working Space, Add	12.63	
			For Elevated Installation >10' To 15' Above Floor, Add	4.21	
			For Elevated Installation >15' To 20' Above Floor, Add	8.42	
			For Elevated Installation >20' To 25' Above Floor, Add	10.52	
			For Elevated Installation >25' To 30' Above Floor, Add	14.73	
			For Elevated Installation >30' To 35' Above Floor, Add	16.84	
			For Elevated Installation >35' To 40' Above Floor, Add	21.05	
			For Elevated Installation >40' Above Floor, Add	23.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0252	EA	3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	76.59	29.09
			For Work In Restricted Working Space, Add	17.45	
			For Elevated Installation >10' To 15' Above Floor, Add	5.82	
			For Elevated Installation >15' To 20' Above Floor, Add	11.64	
			For Elevated Installation >20' To 25' Above Floor, Add	14.55	
			For Elevated Installation >25' To 30' Above Floor, Add	20.36	
			For Elevated Installation >30' To 35' Above Floor, Add	23.27	
			For Elevated Installation >35' To 40' Above Floor, Add	29.09	
			For Elevated Installation >40' Above Floor, Add	32.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33	13-0253	EA	1 1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	18.58	8.05
			For Work In Restricted Working Space, Add	4.83	
			For Elevated Installation >10' To 15' Above Floor, Add	1.61	
			For Elevated Installation >15' To 20' Above Floor, Add	3.22	
			For Elevated Installation >20' To 25' Above Floor, Add	4.02	
			For Elevated Installation >25' To 30' Above Floor, Add	5.63	
			For Elevated Installation >30' To 35' Above Floor, Add	6.44	
			For Elevated Installation >35' To 40' Above Floor, Add	8.05	
			For Elevated Installation >40' Above Floor, Add	8.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33	13-0254	EA	3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	21.33	9.28
			For Work In Restricted Working Space, Add	5.57	
			For Elevated Installation >10' To 15' Above Floor, Add	1.86	
			For Elevated Installation >15' To 20' Above Floor, Add	3.71	
			For Elevated Installation >20' To 25' Above Floor, Add	4.64	
			For Elevated Installation >25' To 30' Above Floor, Add	6.50	
			For Elevated Installation >30' To 35' Above Floor, Add	7.43	
			For Elevated Installation >35' To 40' Above Floor, Add	9.29	
			For Elevated Installation >40' Above Floor, Add	10.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33	13-0255	EA	1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	27.71	11.76
			For Work In Restricted Working Space, Add	7.06	
			For Elevated Installation >10' To 15' Above Floor, Add	2.35	
			For Elevated Installation >15' To 20' Above Floor, Add	4.70	
			For Elevated Installation >20' To 25' Above Floor, Add	5.88	
			For Elevated Installation >25' To 30' Above Floor, Add	8.23	
			For Elevated Installation >30' To 35' Above Floor, Add	9.41	
			For Elevated Installation >35' To 40' Above Floor, Add	11.76	
			For Elevated Installation >40' Above Floor, Add	12.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33	13-0256	EA	1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	32.44	13.62
			For Work In Restricted Working Space, Add	8.17	
			For Elevated Installation >10' To 15' Above Floor, Add	2.72	
			For Elevated Installation >15' To 20' Above Floor, Add	5.45	
			For Elevated Installation >20' To 25' Above Floor, Add	6.81	
			For Elevated Installation >25' To 30' Above Floor, Add	9.53	
			For Elevated Installation >30' To 35' Above Floor, Add	10.89	
			For Elevated Installation >35' To 40' Above Floor, Add	13.62	
			For Elevated Installation >40' Above Floor, Add	14.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33	13-0257	EA	1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	37.37	15.47
			For Work In Restricted Working Space, Add	9.29	
			For Elevated Installation >10' To 15' Above Floor, Add	3.10	
			For Elevated Installation >15' To 20' Above Floor, Add	6.19	
			For Elevated Installation >20' To 25' Above Floor, Add	7.74	
			For Elevated Installation >25' To 30' Above Floor, Add	10.83	
			For Elevated Installation >30' To 35' Above Floor, Add	12.38	
			For Elevated Installation >35' To 40' Above Floor, Add	15.48	
			For Elevated Installation >40' Above Floor, Add	17.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33	13-0258	EA	2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple	42.92	17.33
			For Work In Restricted Working Space, Add	10.40	
			For Elevated Installation >10' To 15' Above Floor, Add	3.47	
			For Elevated Installation >15' To 20' Above Floor, Add	6.93	
			For Elevated Installation >20' To 25' Above Floor, Add	8.67	
			For Elevated Installation >25' To 30' Above Floor, Add	12.13	
			For Elevated Installation >30' To 35' Above Floor, Add	13.86	
			For Elevated Installation >35' To 40' Above Floor, Add	17.33	
			For Elevated Installation >40' Above Floor, Add	19.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33	13-0259	EA	2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	59.79	21.04
			For Work In Restricted Working Space, Add	12.63	
			For Elevated Installation >10' To 15' Above Floor, Add	4.21	
			For Elevated Installation >15' To 20' Above Floor, Add	8.42	
			For Elevated Installation >20' To 25' Above Floor, Add	10.52	
			For Elevated Installation >25' To 30' Above Floor, Add	14.73	
			For Elevated Installation >30' To 35' Above Floor, Add	16.84	
			For Elevated Installation >35' To 40' Above Floor, Add	21.05	
			For Elevated Installation >40' Above Floor, Add	23.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	



Electrical		26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0260 EA 3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	78.95	29.09
For Work In Restricted Working Space, Add	17.45	
For Elevated Installation >10' To 15' Above Floor, Add	5.82	
For Elevated Installation >15' To 20' Above Floor, Add	11.64	
For Elevated Installation >20' To 25' Above Floor, Add	14.55	
For Elevated Installation >25' To 30' Above Floor, Add	20.36	
For Elevated Installation >30' To 35' Above Floor, Add	23.27	
For Elevated Installation >35' To 40' Above Floor, Add	29.09	
For Elevated Installation >40' Above Floor, Add	32.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33 13-0261 EA 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.78	8.05
For Work In Restricted Working Space, Add	4.83	
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-0262 EA 3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.71	9.28
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-0263 EA 1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	28.02	11.76
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-0264 EA 1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	32.75	13.62
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-0265 EA 1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.94	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0266 EA 2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	43.78	17.33
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15' Above Floor, Add	3.47	
For Elevated Installation >15' To 20' Above Floor, Add	6.93	
For Elevated Installation >20' To 25' Above Floor, Add	8.67	
For Elevated Installation >25' To 30' Above Floor, Add	12.13	
For Elevated Installation >30' To 35' Above Floor, Add	13.86	
For Elevated Installation >35' To 40' Above Floor, Add	17.33	
For Elevated Installation >40' Above Floor, Add	19.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-0267 EA 2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	60.63	21.04
For Work In Restricted Working Space, Add	12.63	
For Elevated Installation >10' To 15' Above Floor, Add	4.21	
For Elevated Installation >15' To 20' Above Floor, Add	8.42	
For Elevated Installation >20' To 25' Above Floor, Add	10.52	
For Elevated Installation >25' To 30' Above Floor, Add	14.73	
For Elevated Installation >30' To 35' Above Floor, Add	16.84	
For Elevated Installation >35' To 40' Above Floor, Add	21.05	
For Elevated Installation >40' Above Floor, Add	23.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0268	EA	3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	80.70	29.09
			For Work In Restricted Working Space, Add	17.45	
			For Elevated Installation >10' To 15' Above Floor, Add	5.82	
			For Elevated Installation >15' To 20' Above Floor, Add	11.64	
			For Elevated Installation >20' To 25' Above Floor, Add	14.55	
			For Elevated Installation >25' To 30' Above Floor, Add	20.36	
			For Elevated Installation >30' To 35' Above Floor, Add	23.27	
			For Elevated Installation >35' To 40' Above Floor, Add	29.09	
			For Elevated Installation >40' Above Floor, Add	32.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33	13-0269	EA	3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	93.02	32.81
			For Work In Restricted Working Space, Add	19.68	
			For Elevated Installation >10' To 15' Above Floor, Add	6.56	
			For Elevated Installation >15' To 20' Above Floor, Add	13.12	
			For Elevated Installation >20' To 25' Above Floor, Add	16.40	
			For Elevated Installation >25' To 30' Above Floor, Add	22.96	
			For Elevated Installation >30' To 35' Above Floor, Add	26.24	
			For Elevated Installation >35' To 40' Above Floor, Add	32.81	
			For Elevated Installation >40' Above Floor, Add	36.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68	
26 05 33	13-0270	EA	4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	116.18	42.72
			For Work In Restricted Working Space, Add	25.62	
			For Elevated Installation >10' To 15' Above Floor, Add	8.54	
			For Elevated Installation >15' To 20' Above Floor, Add	17.08	
			For Elevated Installation >20' To 25' Above Floor, Add	21.35	
			For Elevated Installation >25' To 30' Above Floor, Add	29.89	
			For Elevated Installation >30' To 35' Above Floor, Add	34.16	
			For Elevated Installation >35' To 40' Above Floor, Add	42.71	
			For Elevated Installation >40' Above Floor, Add	46.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62	
26 05 33	13-0271	EA	1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	19.10	8.05
			For Work In Restricted Working Space, Add	4.83	
			For Elevated Installation >10' To 15' Above Floor, Add	1.61	
			For Elevated Installation >15' To 20' Above Floor, Add	3.22	
			For Elevated Installation >20' To 25' Above Floor, Add	4.02	
			For Elevated Installation >25' To 30' Above Floor, Add	5.63	
			For Elevated Installation >30' To 35' Above Floor, Add	6.44	
			For Elevated Installation >35' To 40' Above Floor, Add	8.05	
			For Elevated Installation >40' Above Floor, Add	8.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33	13-0272	EA	3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	22.18	9.28
			For Work In Restricted Working Space, Add	5.57	
			For Elevated Installation >10' To 15' Above Floor, Add	1.86	
			For Elevated Installation >15' To 20' Above Floor, Add	3.71	
			For Elevated Installation >20' To 25' Above Floor, Add	4.64	
			For Elevated Installation >25' To 30' Above Floor, Add	6.50	
			For Elevated Installation >30' To 35' Above Floor, Add	7.43	
			For Elevated Installation >35' To 40' Above Floor, Add	9.29	
			For Elevated Installation >40' Above Floor, Add	10.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33	13-0273	EA	1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	28.62	11.76
			For Work In Restricted Working Space, Add	7.06	
			For Elevated Installation >10' To 15' Above Floor, Add	2.35	
			For Elevated Installation >15' To 20' Above Floor, Add	4.70	
			For Elevated Installation >20' To 25' Above Floor, Add	5.88	
			For Elevated Installation >25' To 30' Above Floor, Add	8.23	
			For Elevated Installation >30' To 35' Above Floor, Add	9.41	
			For Elevated Installation >35' To 40' Above Floor, Add	11.76	
			For Elevated Installation >40' Above Floor, Add	12.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33	13-0274	EA	1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	33.62	13.62
			For Work In Restricted Working Space, Add	8.17	
			For Elevated Installation >10' To 15' Above Floor, Add	2.72	
			For Elevated Installation >15' To 20' Above Floor, Add	5.45	
			For Elevated Installation >20' To 25' Above Floor, Add	6.81	
			For Elevated Installation >25' To 30' Above Floor, Add	9.53	
			For Elevated Installation >30' To 35' Above Floor, Add	10.89	
			For Elevated Installation >35' To 40' Above Floor, Add	13.62	
			For Elevated Installation >40' Above Floor, Add	14.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33	13-0275	EA	1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	38.79	15.47
			For Work In Restricted Working Space, Add	9.29	
			For Elevated Installation >10' To 15' Above Floor, Add	3.10	
			For Elevated Installation >15' To 20' Above Floor, Add	6.19	
			For Elevated Installation >20' To 25' Above Floor, Add	7.74	
			For Elevated Installation >25' To 30' Above Floor, Add	10.83	
			For Elevated Installation >30' To 35' Above Floor, Add	12.38	
			For Elevated Installation >35' To 40' Above Floor, Add	15.48	
			For Elevated Installation >40' Above Floor, Add	17.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0276 EA 2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	45.30	17.33
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15' Above Floor, Add	3.47	
For Elevated Installation >15' To 20' Above Floor, Add	6.93	
For Elevated Installation >20' To 25' Above Floor, Add	8.67	
For Elevated Installation >25' To 30' Above Floor, Add	12.13	
For Elevated Installation >30' To 35' Above Floor, Add	13.86	
For Elevated Installation >35' To 40' Above Floor, Add	17.33	
For Elevated Installation >40' Above Floor, Add	19.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-0277 EA 2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	64.00	21.04
For Work In Restricted Working Space, Add	12.63	
For Elevated Installation >10' To 15' Above Floor, Add	4.21	
For Elevated Installation >15' To 20' Above Floor, Add	8.42	
For Elevated Installation >20' To 25' Above Floor, Add	10.52	
For Elevated Installation >25' To 30' Above Floor, Add	14.73	
For Elevated Installation >30' To 35' Above Floor, Add	16.84	
For Elevated Installation >35' To 40' Above Floor, Add	21.05	
For Elevated Installation >40' Above Floor, Add	23.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	
26 05 33 13-0278 EA 3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	84.36	29.09
For Work In Restricted Working Space, Add	17.45	
For Elevated Installation >10' To 15' Above Floor, Add	5.82	
For Elevated Installation >15' To 20' Above Floor, Add	11.64	
For Elevated Installation >20' To 25' Above Floor, Add	14.55	
For Elevated Installation >25' To 30' Above Floor, Add	20.36	
For Elevated Installation >30' To 35' Above Floor, Add	23.27	
For Elevated Installation >35' To 40' Above Floor, Add	29.09	
For Elevated Installation >40' Above Floor, Add	32.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33 13-0279 EA 3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	96.65	32.81
For Work In Restricted Working Space, Add	19.68	
For Elevated Installation >10' To 15' Above Floor, Add	6.56	
For Elevated Installation >15' To 20' Above Floor, Add	13.12	
For Elevated Installation >20' To 25' Above Floor, Add	16.40	
For Elevated Installation >25' To 30' Above Floor, Add	22.96	
For Elevated Installation >30' To 35' Above Floor, Add	26.24	
For Elevated Installation >35' To 40' Above Floor, Add	32.81	
For Elevated Installation >40' Above Floor, Add	36.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68	
26 05 33 13-0280 EA 4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	121.49	42.72
For Work In Restricted Working Space, Add	25.62	
For Elevated Installation >10' To 15' Above Floor, Add	8.54	
For Elevated Installation >15' To 20' Above Floor, Add	17.08	
For Elevated Installation >20' To 25' Above Floor, Add	21.35	
For Elevated Installation >25' To 30' Above Floor, Add	29.89	
For Elevated Installation >30' To 35' Above Floor, Add	34.16	
For Elevated Installation >35' To 40' Above Floor, Add	42.71	
For Elevated Installation >40' Above Floor, Add	46.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62	
26 05 33 13-0281 EA 5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	187.63	58.80
For Work In Restricted Working Space, Add	35.28	
For Elevated Installation >10' To 15' Above Floor, Add	11.76	
For Elevated Installation >15' To 20' Above Floor, Add	23.52	
For Elevated Installation >20' To 25' Above Floor, Add	29.40	
For Elevated Installation >25' To 30' Above Floor, Add	41.16	
For Elevated Installation >30' To 35' Above Floor, Add	47.04	
For Elevated Installation >35' To 40' Above Floor, Add	58.80	
For Elevated Installation >40' Above Floor, Add	64.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.28	
26 05 33 13-0282 EA 6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	238.16	75.40
For Work In Restricted Working Space, Add	45.26	
For Elevated Installation >10' To 15' Above Floor, Add	15.09	
For Elevated Installation >15' To 20' Above Floor, Add	30.18	
For Elevated Installation >20' To 25' Above Floor, Add	37.72	
For Elevated Installation >25' To 30' Above Floor, Add	52.81	
For Elevated Installation >30' To 35' Above Floor, Add	60.35	
For Elevated Installation >35' To 40' Above Floor, Add	75.44	
For Elevated Installation >40' Above Floor, Add	82.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.26	
26 05 33 13-0283 EA 1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	19.69	8.05
For Work In Restricted Working Space, Add	4.83	
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0284 EA 3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	22.78	9.28
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-0285 EA 1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	29.09	11.76
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-0286 EA 1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	34.42	13.62
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-0287 EA 1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	40.59	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0288 EA 2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	46.82	17.33
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15' Above Floor, Add	3.47	
For Elevated Installation >15' To 20' Above Floor, Add	6.93	
For Elevated Installation >20' To 25' Above Floor, Add	8.67	
For Elevated Installation >25' To 30' Above Floor, Add	12.13	
For Elevated Installation >30' To 35' Above Floor, Add	13.86	
For Elevated Installation >35' To 40' Above Floor, Add	17.33	
For Elevated Installation >40' Above Floor, Add	19.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-0289 EA 2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	66.96	21.04
For Work In Restricted Working Space, Add	12.63	
For Elevated Installation >10' To 15' Above Floor, Add	4.21	
For Elevated Installation >15' To 20' Above Floor, Add	8.42	
For Elevated Installation >20' To 25' Above Floor, Add	10.52	
For Elevated Installation >25' To 30' Above Floor, Add	14.73	
For Elevated Installation >30' To 35' Above Floor, Add	16.84	
For Elevated Installation >35' To 40' Above Floor, Add	21.05	
For Elevated Installation >40' Above Floor, Add	23.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	
26 05 33 13-0290 EA 3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	88.07	29.09
For Work In Restricted Working Space, Add	17.45	
For Elevated Installation >10' To 15' Above Floor, Add	5.82	
For Elevated Installation >15' To 20' Above Floor, Add	11.64	
For Elevated Installation >20' To 25' Above Floor, Add	14.55	
For Elevated Installation >25' To 30' Above Floor, Add	20.36	
For Elevated Installation >30' To 35' Above Floor, Add	23.27	
For Elevated Installation >35' To 40' Above Floor, Add	29.09	
For Elevated Installation >40' Above Floor, Add	32.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33 13-0291 EA 3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	101.09	32.81
For Work In Restricted Working Space, Add	19.68	
For Elevated Installation >10' To 15' Above Floor, Add	6.56	
For Elevated Installation >15' To 20' Above Floor, Add	13.12	
For Elevated Installation >20' To 25' Above Floor, Add	16.40	
For Elevated Installation >25' To 30' Above Floor, Add	22.96	
For Elevated Installation >30' To 35' Above Floor, Add	26.24	
For Elevated Installation >35' To 40' Above Floor, Add	32.81	
For Elevated Installation >40' Above Floor, Add	36.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0292 EA 4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	125.70	42.72
For Work In Restricted Working Space, Add	25.62	
For Elevated Installation >10' To 15' Above Floor, Add	8.54	
For Elevated Installation >15' To 20' Above Floor, Add	17.08	
For Elevated Installation >20' To 25' Above Floor, Add	21.35	
For Elevated Installation >25' To 30' Above Floor, Add	29.89	
For Elevated Installation >30' To 35' Above Floor, Add	34.16	
For Elevated Installation >35' To 40' Above Floor, Add	42.71	
For Elevated Installation >40' Above Floor, Add	46.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62	
26 05 33 13-0293 EA 5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	193.80	58.80
For Work In Restricted Working Space, Add	35.28	
For Elevated Installation >10' To 15' Above Floor, Add	11.76	
For Elevated Installation >15' To 20' Above Floor, Add	23.52	
For Elevated Installation >20' To 25' Above Floor, Add	29.40	
For Elevated Installation >25' To 30' Above Floor, Add	41.16	
For Elevated Installation >30' To 35' Above Floor, Add	47.04	
For Elevated Installation >35' To 40' Above Floor, Add	58.80	
For Elevated Installation >40' Above Floor, Add	64.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.28	
26 05 33 13-0294 EA 6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	247.19	75.40
For Work In Restricted Working Space, Add	45.26	
For Elevated Installation >10' To 15' Above Floor, Add	15.09	
For Elevated Installation >15' To 20' Above Floor, Add	30.18	
For Elevated Installation >20' To 25' Above Floor, Add	37.72	
For Elevated Installation >25' To 30' Above Floor, Add	52.81	
For Elevated Installation >30' To 35' Above Floor, Add	60.35	
For Elevated Installation >35' To 40' Above Floor, Add	75.44	
For Elevated Installation >40' Above Floor, Add	82.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.26	
26 05 33 13-0295 EA 1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	21.83	8.05
For Work In Restricted Working Space, Add	4.83	
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-0296 EA 3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	25.51	9.28
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-0297 EA 1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	32.31	11.76
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-0298 EA 1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	39.00	13.62
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-0299 EA 1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	45.69	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0300 EA 2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	52.21	17.33
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15' Above Floor, Add	3.47	
For Elevated Installation >15' To 20' Above Floor, Add	6.93	
For Elevated Installation >20' To 25' Above Floor, Add	8.67	
For Elevated Installation >25' To 30' Above Floor, Add	12.13	
For Elevated Installation >30' To 35' Above Floor, Add	13.86	
For Elevated Installation >35' To 40' Above Floor, Add	17.33	
For Elevated Installation >40' Above Floor, Add	19.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-0301 EA 2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	74.80	21.04
For Work In Restricted Working Space, Add	12.63	
For Elevated Installation >10' To 15' Above Floor, Add	4.21	
For Elevated Installation >15' To 20' Above Floor, Add	8.42	
For Elevated Installation >20' To 25' Above Floor, Add	10.52	
For Elevated Installation >25' To 30' Above Floor, Add	14.73	
For Elevated Installation >30' To 35' Above Floor, Add	16.84	
For Elevated Installation >35' To 40' Above Floor, Add	21.05	
For Elevated Installation >40' Above Floor, Add	23.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	
26 05 33 13-0302 EA 3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	97.08	29.09
For Work In Restricted Working Space, Add	17.45	
For Elevated Installation >10' To 15' Above Floor, Add	5.82	
For Elevated Installation >15' To 20' Above Floor, Add	11.64	
For Elevated Installation >20' To 25' Above Floor, Add	14.55	
For Elevated Installation >25' To 30' Above Floor, Add	20.36	
For Elevated Installation >30' To 35' Above Floor, Add	23.27	
For Elevated Installation >35' To 40' Above Floor, Add	29.09	
For Elevated Installation >40' Above Floor, Add	32.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33 13-0303 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	110.07	32.81
For Work In Restricted Working Space, Add	19.68	
For Elevated Installation >10' To 15' Above Floor, Add	6.56	
For Elevated Installation >15' To 20' Above Floor, Add	13.12	
For Elevated Installation >20' To 25' Above Floor, Add	16.40	
For Elevated Installation >25' To 30' Above Floor, Add	22.96	
For Elevated Installation >30' To 35' Above Floor, Add	26.24	
For Elevated Installation >35' To 40' Above Floor, Add	32.81	
For Elevated Installation >40' Above Floor, Add	36.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68	
26 05 33 13-0304 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	135.62	42.72
For Work In Restricted Working Space, Add	25.62	
For Elevated Installation >10' To 15' Above Floor, Add	8.54	
For Elevated Installation >15' To 20' Above Floor, Add	17.08	
For Elevated Installation >20' To 25' Above Floor, Add	21.35	
For Elevated Installation >25' To 30' Above Floor, Add	29.89	
For Elevated Installation >30' To 35' Above Floor, Add	34.16	
For Elevated Installation >35' To 40' Above Floor, Add	42.71	
For Elevated Installation >40' Above Floor, Add	46.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62	
26 05 33 13-0305 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	208.11	58.80
For Work In Restricted Working Space, Add	35.28	
For Elevated Installation >10' To 15' Above Floor, Add	11.76	
For Elevated Installation >15' To 20' Above Floor, Add	23.52	
For Elevated Installation >20' To 25' Above Floor, Add	29.40	
For Elevated Installation >25' To 30' Above Floor, Add	41.16	
For Elevated Installation >30' To 35' Above Floor, Add	47.04	
For Elevated Installation >35' To 40' Above Floor, Add	58.80	
For Elevated Installation >40' Above Floor, Add	64.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.28	
26 05 33 13-0306 EA 6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	263.26	75.40
For Work In Restricted Working Space, Add	45.26	
For Elevated Installation >10' To 15' Above Floor, Add	15.09	
For Elevated Installation >15' To 20' Above Floor, Add	30.18	
For Elevated Installation >20' To 25' Above Floor, Add	37.72	
For Elevated Installation >25' To 30' Above Floor, Add	52.81	
For Elevated Installation >30' To 35' Above Floor, Add	60.35	
For Elevated Installation >35' To 40' Above Floor, Add	75.44	
For Elevated Installation >40' Above Floor, Add	82.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.26	
26 05 33 13-0307 EA 1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	23.27	8.05
For Work In Restricted Working Space, Add	4.83	
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0308	EA	3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	26.91	9.28
			For Work In Restricted Working Space, Add	5.57	
			For Elevated Installation >10' To 15' Above Floor, Add	1.86	
			For Elevated Installation >15' To 20' Above Floor, Add	3.71	
			For Elevated Installation >20' To 25' Above Floor, Add	4.64	
			For Elevated Installation >25' To 30' Above Floor, Add	6.50	
			For Elevated Installation >30' To 35' Above Floor, Add	7.43	
			For Elevated Installation >35' To 40' Above Floor, Add	9.29	
			For Elevated Installation >40' Above Floor, Add	10.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33	13-0309	EA	1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	34.87	11.76
			For Work In Restricted Working Space, Add	7.06	
			For Elevated Installation >10' To 15' Above Floor, Add	2.35	
			For Elevated Installation >15' To 20' Above Floor, Add	4.70	
			For Elevated Installation >20' To 25' Above Floor, Add	5.88	
			For Elevated Installation >25' To 30' Above Floor, Add	8.23	
			For Elevated Installation >30' To 35' Above Floor, Add	9.41	
			For Elevated Installation >35' To 40' Above Floor, Add	11.76	
			For Elevated Installation >40' Above Floor, Add	12.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33	13-0310	EA	1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	42.04	13.62
			For Work In Restricted Working Space, Add	8.17	
			For Elevated Installation >10' To 15' Above Floor, Add	2.72	
			For Elevated Installation >15' To 20' Above Floor, Add	5.45	
			For Elevated Installation >20' To 25' Above Floor, Add	6.81	
			For Elevated Installation >25' To 30' Above Floor, Add	9.53	
			For Elevated Installation >30' To 35' Above Floor, Add	10.89	
			For Elevated Installation >35' To 40' Above Floor, Add	13.62	
			For Elevated Installation >40' Above Floor, Add	14.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33	13-0311	EA	1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	48.69	15.47
			For Work In Restricted Working Space, Add	9.29	
			For Elevated Installation >10' To 15' Above Floor, Add	3.10	
			For Elevated Installation >15' To 20' Above Floor, Add	6.19	
			For Elevated Installation >20' To 25' Above Floor, Add	7.74	
			For Elevated Installation >25' To 30' Above Floor, Add	10.83	
			For Elevated Installation >30' To 35' Above Floor, Add	12.38	
			For Elevated Installation >35' To 40' Above Floor, Add	15.48	
			For Elevated Installation >40' Above Floor, Add	17.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33	13-0312	EA	2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	55.68	17.33
			For Work In Restricted Working Space, Add	10.40	
			For Elevated Installation >10' To 15' Above Floor, Add	3.47	
			For Elevated Installation >15' To 20' Above Floor, Add	6.93	
			For Elevated Installation >20' To 25' Above Floor, Add	8.67	
			For Elevated Installation >25' To 30' Above Floor, Add	12.13	
			For Elevated Installation >30' To 35' Above Floor, Add	13.86	
			For Elevated Installation >35' To 40' Above Floor, Add	17.33	
			For Elevated Installation >40' Above Floor, Add	19.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33	13-0313	EA	2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	80.07	21.04
			For Work In Restricted Working Space, Add	12.63	
			For Elevated Installation >10' To 15' Above Floor, Add	4.21	
			For Elevated Installation >15' To 20' Above Floor, Add	8.42	
			For Elevated Installation >20' To 25' Above Floor, Add	10.52	
			For Elevated Installation >25' To 30' Above Floor, Add	14.73	
			For Elevated Installation >30' To 35' Above Floor, Add	16.84	
			For Elevated Installation >35' To 40' Above Floor, Add	21.05	
			For Elevated Installation >40' Above Floor, Add	23.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	
26 05 33	13-0314	EA	3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	104.15	29.09
			For Work In Restricted Working Space, Add	17.45	
			For Elevated Installation >10' To 15' Above Floor, Add	5.82	
			For Elevated Installation >15' To 20' Above Floor, Add	11.64	
			For Elevated Installation >20' To 25' Above Floor, Add	14.55	
			For Elevated Installation >25' To 30' Above Floor, Add	20.36	
			For Elevated Installation >30' To 35' Above Floor, Add	23.27	
			For Elevated Installation >35' To 40' Above Floor, Add	29.09	
			For Elevated Installation >40' Above Floor, Add	32.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33	13-0315	EA	3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	119.39	32.81
			For Work In Restricted Working Space, Add	19.68	
			For Elevated Installation >10' To 15' Above Floor, Add	6.56	
			For Elevated Installation >15' To 20' Above Floor, Add	13.12	
			For Elevated Installation >20' To 25' Above Floor, Add	16.40	
			For Elevated Installation >25' To 30' Above Floor, Add	22.96	
			For Elevated Installation >30' To 35' Above Floor, Add	26.24	
			For Elevated Installation >35' To 40' Above Floor, Add	32.81	
			For Elevated Installation >40' Above Floor, Add	36.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0316 EA 4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	147.43	42.72
For Work In Restricted Working Space, Add	25.62	
For Elevated Installation >10' To 15' Above Floor, Add	8.54	
For Elevated Installation >15' To 20' Above Floor, Add	17.08	
For Elevated Installation >20' To 25' Above Floor, Add	21.35	
For Elevated Installation >25' To 30' Above Floor, Add	29.89	
For Elevated Installation >30' To 35' Above Floor, Add	34.16	
For Elevated Installation >35' To 40' Above Floor, Add	42.71	
For Elevated Installation >40' Above Floor, Add	46.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62	
26 05 33 13-0317 EA 5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	223.72	58.80
For Work In Restricted Working Space, Add	35.28	
For Elevated Installation >10' To 15' Above Floor, Add	11.76	
For Elevated Installation >15' To 20' Above Floor, Add	23.52	
For Elevated Installation >20' To 25' Above Floor, Add	29.40	
For Elevated Installation >25' To 30' Above Floor, Add	41.16	
For Elevated Installation >30' To 35' Above Floor, Add	47.04	
For Elevated Installation >35' To 40' Above Floor, Add	58.80	
For Elevated Installation >40' Above Floor, Add	64.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.28	
26 05 33 13-0318 EA 6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	291.33	75.40
For Work In Restricted Working Space, Add	45.26	
For Elevated Installation >10' To 15' Above Floor, Add	15.09	
For Elevated Installation >15' To 20' Above Floor, Add	30.18	
For Elevated Installation >20' To 25' Above Floor, Add	37.72	
For Elevated Installation >25' To 30' Above Floor, Add	52.81	
For Elevated Installation >30' To 35' Above Floor, Add	60.35	
For Elevated Installation >35' To 40' Above Floor, Add	75.44	
For Elevated Installation >40' Above Floor, Add	82.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.26	
26 05 33 13-0319 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	24.37	8.05
For Work In Restricted Working Space, Add	4.83	
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-0320 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	27.94	9.28
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-0321 EA 1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	36.41	11.76
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-0322 EA 1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	44.48	13.62
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-0323 EA 1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	50.19	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0324	EA		2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	58.59	17.33
			For Work In Restricted Working Space, Add	10.40	
			For Elevated Installation >10' To 15' Above Floor, Add	3.47	
			For Elevated Installation >15' To 20' Above Floor, Add	6.93	
			For Elevated Installation >20' To 25' Above Floor, Add	8.67	
			For Elevated Installation >25' To 30' Above Floor, Add	12.13	
			For Elevated Installation >30' To 35' Above Floor, Add	13.86	
			For Elevated Installation >35' To 40' Above Floor, Add	17.33	
			For Elevated Installation >40' Above Floor, Add	19.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-0325	EA		2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	86.27	21.04
			For Work In Restricted Working Space, Add	12.63	
			For Elevated Installation >10' To 15' Above Floor, Add	4.21	
			For Elevated Installation >15' To 20' Above Floor, Add	8.42	
			For Elevated Installation >20' To 25' Above Floor, Add	10.52	
			For Elevated Installation >25' To 30' Above Floor, Add	14.73	
			For Elevated Installation >30' To 35' Above Floor, Add	16.84	
			For Elevated Installation >35' To 40' Above Floor, Add	21.05	
			For Elevated Installation >40' Above Floor, Add	23.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	
26 05 33 13-0326	EA		3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	113.99	29.09
			For Work In Restricted Working Space, Add	17.45	
			For Elevated Installation >10' To 15' Above Floor, Add	5.82	
			For Elevated Installation >15' To 20' Above Floor, Add	11.64	
			For Elevated Installation >20' To 25' Above Floor, Add	14.55	
			For Elevated Installation >25' To 30' Above Floor, Add	20.36	
			For Elevated Installation >30' To 35' Above Floor, Add	23.27	
			For Elevated Installation >35' To 40' Above Floor, Add	29.09	
			For Elevated Installation >40' Above Floor, Add	32.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33 13-0327	EA		3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	128.46	32.81
			For Work In Restricted Working Space, Add	19.68	
			For Elevated Installation >10' To 15' Above Floor, Add	6.56	
			For Elevated Installation >15' To 20' Above Floor, Add	13.12	
			For Elevated Installation >20' To 25' Above Floor, Add	16.40	
			For Elevated Installation >25' To 30' Above Floor, Add	22.96	
			For Elevated Installation >30' To 35' Above Floor, Add	26.24	
			For Elevated Installation >35' To 40' Above Floor, Add	32.81	
			For Elevated Installation >40' Above Floor, Add	36.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68	
26 05 33 13-0328	EA		4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	159.25	42.72
			For Work In Restricted Working Space, Add	25.62	
			For Elevated Installation >10' To 15' Above Floor, Add	8.54	
			For Elevated Installation >15' To 20' Above Floor, Add	17.08	
			For Elevated Installation >20' To 25' Above Floor, Add	21.35	
			For Elevated Installation >25' To 30' Above Floor, Add	29.89	
			For Elevated Installation >30' To 35' Above Floor, Add	34.16	
			For Elevated Installation >35' To 40' Above Floor, Add	42.71	
			For Elevated Installation >40' Above Floor, Add	46.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62	
26 05 33 13-0329	EA		5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	246.14	58.80
			For Work In Restricted Working Space, Add	35.28	
			For Elevated Installation >10' To 15' Above Floor, Add	11.76	
			For Elevated Installation >15' To 20' Above Floor, Add	23.52	
			For Elevated Installation >20' To 25' Above Floor, Add	29.40	
			For Elevated Installation >25' To 30' Above Floor, Add	41.16	
			For Elevated Installation >30' To 35' Above Floor, Add	47.04	
			For Elevated Installation >35' To 40' Above Floor, Add	58.80	
			For Elevated Installation >40' Above Floor, Add	64.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.28	
26 05 33 13-0330	EA		6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	306.94	75.40
			For Work In Restricted Working Space, Add	45.26	
			For Elevated Installation >10' To 15' Above Floor, Add	15.09	
			For Elevated Installation >15' To 20' Above Floor, Add	30.18	
			For Elevated Installation >20' To 25' Above Floor, Add	37.72	
			For Elevated Installation >25' To 30' Above Floor, Add	52.81	
			For Elevated Installation >30' To 35' Above Floor, Add	60.35	
			For Elevated Installation >35' To 40' Above Floor, Add	75.44	
			For Elevated Installation >40' Above Floor, Add	82.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.26	
26 05 33 13-0331			Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0060)		
26 05 33 13-0332	EA		1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	18.58	6.44
			For Work In Restricted Working Space, Add	4.87	
			For Elevated Installation >10' To 15' Above Floor, Add	1.62	
			For Elevated Installation >15' To 20' Above Floor, Add	3.24	
			For Elevated Installation >20' To 25' Above Floor, Add	4.06	
			For Elevated Installation >25' To 30' Above Floor, Add	5.68	
			For Elevated Installation >30' To 35' Above Floor, Add	6.49	
			For Elevated Installation >35' To 40' Above Floor, Add	8.11	
			For Elevated Installation >40' Above Floor, Add	8.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.87	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0333 EA 3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	22.07	7.43
For Work In Restricted Working Space, Add	5.54	
For Elevated Installation >10' To 15' Above Floor, Add	1.85	
For Elevated Installation >15' To 20' Above Floor, Add	3.69	
For Elevated Installation >20' To 25' Above Floor, Add	4.62	
For Elevated Installation >25' To 30' Above Floor, Add	6.46	
For Elevated Installation >30' To 35' Above Floor, Add	7.38	
For Elevated Installation >35' To 40' Above Floor, Add	9.23	
For Elevated Installation >40' Above Floor, Add	10.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.54	
26 05 33 13-0334 EA 1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	27.74	9.41
For Work In Restricted Working Space, Add	7.09	
For Elevated Installation >10' To 15' Above Floor, Add	2.36	
For Elevated Installation >15' To 20' Above Floor, Add	4.72	
For Elevated Installation >20' To 25' Above Floor, Add	5.91	
For Elevated Installation >25' To 30' Above Floor, Add	8.27	
For Elevated Installation >30' To 35' Above Floor, Add	9.45	
For Elevated Installation >35' To 40' Above Floor, Add	11.81	
For Elevated Installation >40' Above Floor, Add	12.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.09	
26 05 33 13-0335 EA 1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	34.96	11.27
For Work In Restricted Working Space, Add	8.49	
For Elevated Installation >10' To 15' Above Floor, Add	2.83	
For Elevated Installation >15' To 20' Above Floor, Add	5.66	
For Elevated Installation >20' To 25' Above Floor, Add	7.08	
For Elevated Installation >25' To 30' Above Floor, Add	9.91	
For Elevated Installation >30' To 35' Above Floor, Add	11.32	
For Elevated Installation >35' To 40' Above Floor, Add	14.16	
For Elevated Installation >40' Above Floor, Add	15.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 33 13-0336 EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	38.28	12.38
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.20	
For Elevated Installation >20' To 25' Above Floor, Add	7.75	
For Elevated Installation >25' To 30' Above Floor, Add	10.84	
For Elevated Installation >30' To 35' Above Floor, Add	12.39	
For Elevated Installation >35' To 40' Above Floor, Add	15.49	
For Elevated Installation >40' Above Floor, Add	17.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0337 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	49.74	15.23
For Work In Restricted Working Space, Add	11.45	
For Elevated Installation >10' To 15' Above Floor, Add	3.82	
For Elevated Installation >15' To 20' Above Floor, Add	7.63	
For Elevated Installation >20' To 25' Above Floor, Add	9.54	
For Elevated Installation >25' To 30' Above Floor, Add	13.35	
For Elevated Installation >30' To 35' Above Floor, Add	15.26	
For Elevated Installation >35' To 40' Above Floor, Add	19.08	
For Elevated Installation >40' Above Floor, Add	20.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.45	
26 05 33 13-0338 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	81.22	24.76
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33 13-0339 EA 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	129.30	34.17
For Work In Restricted Working Space, Add	25.63	
For Elevated Installation >10' To 15' Above Floor, Add	8.54	
For Elevated Installation >15' To 20' Above Floor, Add	17.08	
For Elevated Installation >20' To 25' Above Floor, Add	21.36	
For Elevated Installation >25' To 30' Above Floor, Add	29.90	
For Elevated Installation >30' To 35' Above Floor, Add	34.17	
For Elevated Installation >35' To 40' Above Floor, Add	42.71	
For Elevated Installation >40' Above Floor, Add	46.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.63	
26 05 33 13-0340 EA 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	159.59	40.36
For Work In Restricted Working Space, Add	30.10	
For Elevated Installation >10' To 15' Above Floor, Add	10.03	
For Elevated Installation >15' To 20' Above Floor, Add	20.07	
For Elevated Installation >20' To 25' Above Floor, Add	25.09	
For Elevated Installation >25' To 30' Above Floor, Add	35.12	
For Elevated Installation >30' To 35' Above Floor, Add	40.14	
For Elevated Installation >35' To 40' Above Floor, Add	50.17	
For Elevated Installation >40' Above Floor, Add	55.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.10	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0341	EA	4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.92 34.92 11.64 23.28 29.10 40.74 46.56 58.20 64.01 34.92	46.55
26 05 33 13-0342		Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (26 05 33 13-0060) Note: Erickson fittings.		
26 05 33 13-0343	EA	1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.35 14.87 4.96 9.92 12.40 17.35 19.83 24.79 27.27 14.87	19.81
26 05 33 13-0344	EA	3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.88 16.60 5.53 11.07 13.83 19.37 22.13 27.67 30.43 16.60	22.16
26 05 33 13-0345	EA	1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.19 18.49 6.16 12.33 15.41 21.57 24.66 30.82 33.90 18.49	24.63
26 05 33 13-0346	EA	1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.43 20.24 6.75 13.49 16.86 23.61 26.98 33.73 37.10 20.24	26.99
26 05 33 13-0347	EA	1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.54 22.14 7.38 14.76 18.45 25.83 29.52 36.90 40.58 22.14	29.46
26 05 33 13-0348	EA	2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.46 23.97 7.99 15.98 19.98 27.97 31.96 39.96 43.95 23.97	31.94
26 05 33 13-0349	EA	2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.75 29.71 9.90 19.81 24.76 34.66 39.62 49.52 54.47 29.71	39.62

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0350 EA 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	241.75	49.52
For Work In Restricted Working Space, Add	37.14	
For Elevated Installation >10' To 15' Above Floor, Add	12.38	
For Elevated Installation >15' To 20' Above Floor, Add	24.76	
For Elevated Installation >20' To 25' Above Floor, Add	30.95	
For Elevated Installation >25' To 30' Above Floor, Add	43.33	
For Elevated Installation >30' To 35' Above Floor, Add	49.52	
For Elevated Installation >35' To 40' Above Floor, Add	61.90	
For Elevated Installation >40' Above Floor, Add	68.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.14	
26 05 33 13-0351 EA 3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	345.07	59.42
For Work In Restricted Working Space, Add	44.58	
For Elevated Installation >10' To 15' Above Floor, Add	14.86	
For Elevated Installation >15' To 20' Above Floor, Add	29.72	
For Elevated Installation >20' To 25' Above Floor, Add	37.15	
For Elevated Installation >25' To 30' Above Floor, Add	52.01	
For Elevated Installation >30' To 35' Above Floor, Add	59.44	
For Elevated Installation >35' To 40' Above Floor, Add	74.31	
For Elevated Installation >40' Above Floor, Add	81.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.58	
26 05 33 13-0352 EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	391.95	64.38
For Work In Restricted Working Space, Add	48.28	
For Elevated Installation >10' To 15' Above Floor, Add	16.09	
For Elevated Installation >15' To 20' Above Floor, Add	32.18	
For Elevated Installation >20' To 25' Above Floor, Add	40.23	
For Elevated Installation >25' To 30' Above Floor, Add	56.32	
For Elevated Installation >30' To 35' Above Floor, Add	64.37	
For Elevated Installation >35' To 40' Above Floor, Add	80.46	
For Elevated Installation >40' Above Floor, Add	88.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.28	
26 05 33 13-0353 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	672.21	79.23
For Work In Restricted Working Space, Add	59.42	
For Elevated Installation >10' To 15' Above Floor, Add	19.81	
For Elevated Installation >15' To 20' Above Floor, Add	39.61	
For Elevated Installation >20' To 25' Above Floor, Add	49.51	
For Elevated Installation >25' To 30' Above Floor, Add	69.32	
For Elevated Installation >30' To 35' Above Floor, Add	79.22	
For Elevated Installation >35' To 40' Above Floor, Add	99.03	
For Elevated Installation >40' Above Floor, Add	108.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.42	
26 05 33 13-0354 EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	861.02	91.61
For Work In Restricted Working Space, Add	68.70	
For Elevated Installation >10' To 15' Above Floor, Add	22.90	
For Elevated Installation >15' To 20' Above Floor, Add	45.80	
For Elevated Installation >20' To 25' Above Floor, Add	57.25	
For Elevated Installation >25' To 30' Above Floor, Add	80.15	
For Elevated Installation >30' To 35' Above Floor, Add	91.60	
For Elevated Installation >35' To 40' Above Floor, Add	114.50	
For Elevated Installation >40' Above Floor, Add	125.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.70	
26 05 33 13-0355 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT)		
Connectors (26 05 33 13-0060)		
26 05 33 13-0356 EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	31.09	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
26 05 33 13-0357 EA 3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	34.72	10.90
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
26 05 33 13-0358 EA 1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	39.87	12.38
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.84	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0359 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	45.18 10.03 3.34 6.68 8.36 11.70 13.37 16.71 18.38	13.37
26 05 33 13-0360 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	53.55 11.15 3.72 7.43 9.29 13.00 14.86 18.58 20.43	14.86
26 05 33 13-0361 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	65.10 12.26 4.09 8.17 10.22 14.30 16.34 20.43 22.47	16.35
26 05 33 13-0362 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	88.38 14.86 4.95 9.90 12.38 17.33 19.81 24.76 27.24	19.81
26 05 33 13-0363 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	109.32 18.57 6.19 12.38 15.48 21.67 24.76 30.95 34.05	24.76
26 05 33 13-0364 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	131.32 22.28 7.43 14.86 18.57 26.00 29.71 37.14 40.85	29.71
26 05 33 13-0365 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	148.21 24.14 8.05 16.09 20.12 28.16 32.19 40.24 44.26	32.19
26 05 33 13-0366 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0060)		
26 05 33 13-0367 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.17 6.69 2.23 4.46 5.57 7.80 8.92 11.15 12.26 6.69	11.14
26 05 33 13-0368 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.27 7.43 2.48 4.95 6.19 8.67 9.90 12.38 13.62 7.43	12.38

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0369 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	37.41	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0370 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	45.92	18.57
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 05 33 13-0371 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	59.17	24.76
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.86	
26 05 33 13-0372 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	68.60	27.85
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.71	
26 05 33 13-0373 EA 2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	83.79	30.95
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33 13-0374 EA 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	112.32	38.99
For Work In Restricted Working Space, Add	23.40	
For Elevated Installation >10' To 15' Above Floor, Add	7.80	
For Elevated Installation >15' To 20' Above Floor, Add	15.60	
For Elevated Installation >20' To 25' Above Floor, Add	19.50	
For Elevated Installation >25' To 30' Above Floor, Add	27.30	
For Elevated Installation >30' To 35' Above Floor, Add	31.20	
For Elevated Installation >35' To 40' Above Floor, Add	39.00	
For Elevated Installation >40' Above Floor, Add	42.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.40	
26 05 33 13-0375 EA 3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	133.49	47.04
For Work In Restricted Working Space, Add	28.23	
For Elevated Installation >10' To 15' Above Floor, Add	9.41	
For Elevated Installation >15' To 20' Above Floor, Add	18.82	
For Elevated Installation >20' To 25' Above Floor, Add	23.52	
For Elevated Installation >25' To 30' Above Floor, Add	32.93	
For Elevated Installation >30' To 35' Above Floor, Add	37.64	
For Elevated Installation >35' To 40' Above Floor, Add	47.05	
For Elevated Installation >40' Above Floor, Add	51.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.23	
26 05 33 13-0376 EA 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	163.37	55.71
For Work In Restricted Working Space, Add	33.43	
For Elevated Installation >10' To 15' Above Floor, Add	11.14	
For Elevated Installation >15' To 20' Above Floor, Add	22.28	
For Elevated Installation >20' To 25' Above Floor, Add	27.86	
For Elevated Installation >25' To 30' Above Floor, Add	39.00	
For Elevated Installation >30' To 35' Above Floor, Add	44.57	
For Elevated Installation >35' To 40' Above Floor, Add	55.71	
For Elevated Installation >40' Above Floor, Add	61.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.43	

26 05 33 13-0377 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement (26 05

33 13-0060)

Note: Type AX



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0378	EA	1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	137.76	19.81
			For Work In Restricted Working Space, Add	14.86	
			For Elevated Installation >10' To 15' Above Floor, Add	4.95	
			For Elevated Installation >15' To 20' Above Floor, Add	9.91	
			For Elevated Installation >20' To 25' Above Floor, Add	12.38	
			For Elevated Installation >25' To 30' Above Floor, Add	17.34	
			For Elevated Installation >30' To 35' Above Floor, Add	19.81	
			For Elevated Installation >35' To 40' Above Floor, Add	24.77	
			For Elevated Installation >40' Above Floor, Add	27.24	
26 05 33	13-0379	EA	3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	156.43	22.29
			For Work In Restricted Working Space, Add	16.71	
			For Elevated Installation >10' To 15' Above Floor, Add	5.57	
			For Elevated Installation >15' To 20' Above Floor, Add	11.14	
			For Elevated Installation >20' To 25' Above Floor, Add	13.93	
			For Elevated Installation >25' To 30' Above Floor, Add	19.50	
			For Elevated Installation >30' To 35' Above Floor, Add	22.28	
			For Elevated Installation >35' To 40' Above Floor, Add	27.86	
			For Elevated Installation >40' Above Floor, Add	30.64	
26 05 33	13-0380	EA	1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	185.82	24.76
			For Work In Restricted Working Space, Add	18.57	
			For Elevated Installation >10' To 15' Above Floor, Add	6.19	
			For Elevated Installation >15' To 20' Above Floor, Add	12.38	
			For Elevated Installation >20' To 25' Above Floor, Add	15.48	
			For Elevated Installation >25' To 30' Above Floor, Add	21.67	
			For Elevated Installation >30' To 35' Above Floor, Add	24.76	
			For Elevated Installation >35' To 40' Above Floor, Add	30.96	
			For Elevated Installation >40' Above Floor, Add	34.05	
26 05 33	13-0381	EA	1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	228.59	27.23
			For Work In Restricted Working Space, Add	20.43	
			For Elevated Installation >10' To 15' Above Floor, Add	6.81	
			For Elevated Installation >15' To 20' Above Floor, Add	13.62	
			For Elevated Installation >20' To 25' Above Floor, Add	17.02	
			For Elevated Installation >25' To 30' Above Floor, Add	23.83	
			For Elevated Installation >30' To 35' Above Floor, Add	27.24	
			For Elevated Installation >35' To 40' Above Floor, Add	34.05	
			For Elevated Installation >40' Above Floor, Add	37.45	
26 05 33	13-0382	EA	1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	288.77	29.71
			For Work In Restricted Working Space, Add	22.28	
			For Elevated Installation >10' To 15' Above Floor, Add	7.43	
			For Elevated Installation >15' To 20' Above Floor, Add	14.85	
			For Elevated Installation >20' To 25' Above Floor, Add	18.57	
			For Elevated Installation >25' To 30' Above Floor, Add	25.99	
			For Elevated Installation >30' To 35' Above Floor, Add	29.71	
			For Elevated Installation >35' To 40' Above Floor, Add	37.14	
			For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33	13-0383	EA	2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	402.20	32.19
			For Work In Restricted Working Space, Add	24.14	
			For Elevated Installation >10' To 15' Above Floor, Add	8.05	
			For Elevated Installation >15' To 20' Above Floor, Add	16.09	
			For Elevated Installation >20' To 25' Above Floor, Add	20.12	
			For Elevated Installation >25' To 30' Above Floor, Add	28.16	
			For Elevated Installation >30' To 35' Above Floor, Add	32.18	
			For Elevated Installation >35' To 40' Above Floor, Add	40.23	
			For Elevated Installation >40' Above Floor, Add	44.25	
26 05 33	13-0384	EA	2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	619.15	39.62
			For Work In Restricted Working Space, Add	29.71	
			For Elevated Installation >10' To 15' Above Floor, Add	9.90	
			For Elevated Installation >15' To 20' Above Floor, Add	19.81	
			For Elevated Installation >20' To 25' Above Floor, Add	24.76	
			For Elevated Installation >25' To 30' Above Floor, Add	34.66	
			For Elevated Installation >30' To 35' Above Floor, Add	39.62	
			For Elevated Installation >35' To 40' Above Floor, Add	49.52	
			For Elevated Installation >40' Above Floor, Add	54.47	
26 05 33	13-0385	EA	3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	793.68	49.52
			For Work In Restricted Working Space, Add	37.14	
			For Elevated Installation >10' To 15' Above Floor, Add	12.38	
			For Elevated Installation >15' To 20' Above Floor, Add	24.76	
			For Elevated Installation >20' To 25' Above Floor, Add	30.95	
			For Elevated Installation >25' To 30' Above Floor, Add	43.33	
			For Elevated Installation >30' To 35' Above Floor, Add	49.52	
			For Elevated Installation >35' To 40' Above Floor, Add	61.90	
			For Elevated Installation >40' Above Floor, Add	68.09	
26 05 33	13-0386	EA	3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,163.00	59.42
			For Work In Restricted Working Space, Add	44.57	
			For Elevated Installation >10' To 15' Above Floor, Add	14.86	
			For Elevated Installation >15' To 20' Above Floor, Add	29.72	
			For Elevated Installation >20' To 25' Above Floor, Add	37.15	
			For Elevated Installation >25' To 30' Above Floor, Add	52.00	
			For Elevated Installation >30' To 35' Above Floor, Add	59.43	
			For Elevated Installation >35' To 40' Above Floor, Add	74.29	
			For Elevated Installation >40' Above Floor, Add	81.72	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0387 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,239.39	64.38
For Work In Restricted Working Space, Add	48.28	
For Elevated Installation >10' To 15' Above Floor, Add	16.09	
For Elevated Installation >15' To 20' Above Floor, Add	32.18	
For Elevated Installation >20' To 25' Above Floor, Add	40.23	
For Elevated Installation >25' To 30' Above Floor, Add	56.32	
For Elevated Installation >30' To 35' Above Floor, Add	64.37	
For Elevated Installation >35' To 40' Above Floor, Add	80.46	
For Elevated Installation >40' Above Floor, Add	88.51	
26 05 33 13-0388 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,904.93	79.23
For Work In Restricted Working Space, Add	59.43	
For Elevated Installation >10' To 15' Above Floor, Add	19.81	
For Elevated Installation >15' To 20' Above Floor, Add	39.62	
For Elevated Installation >20' To 25' Above Floor, Add	49.52	
For Elevated Installation >25' To 30' Above Floor, Add	69.33	
For Elevated Installation >30' To 35' Above Floor, Add	79.24	
For Elevated Installation >35' To 40' Above Floor, Add	99.05	
For Elevated Installation >40' Above Floor, Add	108.95	
26 05 33 13-0389 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	2,343.22	87.90
For Work In Restricted Working Space, Add	65.96	
For Elevated Installation >10' To 15' Above Floor, Add	21.99	
For Elevated Installation >15' To 20' Above Floor, Add	43.97	
For Elevated Installation >20' To 25' Above Floor, Add	54.97	
For Elevated Installation >25' To 30' Above Floor, Add	76.95	
For Elevated Installation >30' To 35' Above Floor, Add	87.95	
For Elevated Installation >35' To 40' Above Floor, Add	109.94	
For Elevated Installation >40' Above Floor, Add	120.93	
26 05 33 13-0390 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement _{(26 05}		
_{33 13-0060)}		
Note: Type AX-8		
26 05 33 13-0391 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	152.51	19.81
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.91	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.34	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.77	
For Elevated Installation >40' Above Floor, Add	27.24	
26 05 33 13-0392 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	169.50	22.29
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
26 05 33 13-0393 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	206.33	24.76
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.96	
For Elevated Installation >40' Above Floor, Add	34.05	
26 05 33 13-0394 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	260.89	27.23
For Work In Restricted Working Space, Add	20.43	
For Elevated Installation >10' To 15' Above Floor, Add	6.81	
For Elevated Installation >15' To 20' Above Floor, Add	13.62	
For Elevated Installation >20' To 25' Above Floor, Add	17.02	
For Elevated Installation >25' To 30' Above Floor, Add	23.83	
For Elevated Installation >30' To 35' Above Floor, Add	27.24	
For Elevated Installation >35' To 40' Above Floor, Add	34.05	
For Elevated Installation >40' Above Floor, Add	37.45	
26 05 33 13-0395 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	352.94	29.71
For Work In Restricted Working Space, Add	22.28	
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.85	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	25.99	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33 13-0396 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	432.86	32.19
For Work In Restricted Working Space, Add	24.14	
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.18	
For Elevated Installation >35' To 40' Above Floor, Add	40.23	
For Elevated Installation >40' Above Floor, Add	44.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0397 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 817.94 39.62 For Work In Restricted Working Space, Add 29.71 For Elevated Installation >10' To 15' Above Floor, Add 9.90 For Elevated Installation >15' To 20' Above Floor, Add 19.81 For Elevated Installation >20' To 25' Above Floor, Add 24.76 For Elevated Installation >25' To 30' Above Floor, Add 34.66 For Elevated Installation >30' To 35' Above Floor, Add 39.62 For Elevated Installation >35' To 40' Above Floor, Add 49.52 For Elevated Installation >40' Above Floor, Add 54.47		
26 05 33 13-0398 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 929.42 49.52 For Work In Restricted Working Space, Add 37.14 For Elevated Installation >10' To 15' Above Floor, Add 12.38 For Elevated Installation >15' To 20' Above Floor, Add 24.76 For Elevated Installation >20' To 25' Above Floor, Add 30.95 For Elevated Installation >25' To 30' Above Floor, Add 43.33 For Elevated Installation >30' To 35' Above Floor, Add 49.52 For Elevated Installation >35' To 40' Above Floor, Add 61.90 For Elevated Installation >40' Above Floor, Add 68.09		
26 05 33 13-0399 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 1,431.26 59.42 For Work In Restricted Working Space, Add 44.57 For Elevated Installation >10' To 15' Above Floor, Add 14.86 For Elevated Installation >15' To 20' Above Floor, Add 29.72 For Elevated Installation >20' To 25' Above Floor, Add 37.15 For Elevated Installation >25' To 30' Above Floor, Add 52.00 For Elevated Installation >30' To 35' Above Floor, Add 59.43 For Elevated Installation >35' To 40' Above Floor, Add 74.29 For Elevated Installation >40' Above Floor, Add 81.72		
26 05 33 13-0400 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 1,549.45 64.38 For Work In Restricted Working Space, Add 48.28 For Elevated Installation >10' To 15' Above Floor, Add 16.09 For Elevated Installation >15' To 20' Above Floor, Add 32.18 For Elevated Installation >20' To 25' Above Floor, Add 40.23 For Elevated Installation >25' To 30' Above Floor, Add 56.32 For Elevated Installation >30' To 35' Above Floor, Add 64.37 For Elevated Installation >35' To 40' Above Floor, Add 80.46 For Elevated Installation >40' Above Floor, Add 88.51		
26 05 33 13-0401 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 2,166.29 79.23 For Work In Restricted Working Space, Add 59.43 For Elevated Installation >10' To 15' Above Floor, Add 19.81 For Elevated Installation >15' To 20' Above Floor, Add 39.62 For Elevated Installation >20' To 25' Above Floor, Add 49.52 For Elevated Installation >25' To 30' Above Floor, Add 69.33 For Elevated Installation >30' To 35' Above Floor, Add 79.24 For Elevated Installation >35' To 40' Above Floor, Add 99.05 For Elevated Installation >40' Above Floor, Add 108.95		
26 05 33 13-0402 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 2,679.48 87.90 For Work In Restricted Working Space, Add 65.96 For Elevated Installation >10' To 15' Above Floor, Add 21.99 For Elevated Installation >15' To 20' Above Floor, Add 43.97 For Elevated Installation >20' To 25' Above Floor, Add 54.97 For Elevated Installation >25' To 30' Above Floor, Add 76.95 For Elevated Installation >30' To 35' Above Floor, Add 87.95 For Elevated Installation >35' To 40' Above Floor, Add 109.94 For Elevated Installation >40' Above Floor, Add 120.93		
26 05 33 13-0403 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0060) Note: Type EX		
26 05 33 13-0404 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement 174.10 19.81 For Work In Restricted Working Space, Add 14.86 For Elevated Installation >10' To 15' Above Floor, Add 4.95 For Elevated Installation >15' To 20' Above Floor, Add 9.91 For Elevated Installation >20' To 25' Above Floor, Add 12.38 For Elevated Installation >25' To 30' Above Floor, Add 17.34 For Elevated Installation >30' To 35' Above Floor, Add 19.81 For Elevated Installation >35' To 40' Above Floor, Add 24.77 For Elevated Installation >40' Above Floor, Add 27.24		
26 05 33 13-0405 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement 220.40 22.29 For Work In Restricted Working Space, Add 16.71 For Elevated Installation >10' To 15' Above Floor, Add 5.57 For Elevated Installation >15' To 20' Above Floor, Add 11.14 For Elevated Installation >20' To 25' Above Floor, Add 13.93 For Elevated Installation >25' To 30' Above Floor, Add 19.50 For Elevated Installation >30' To 35' Above Floor, Add 22.28 For Elevated Installation >35' To 40' Above Floor, Add 27.86 For Elevated Installation >40' Above Floor, Add 30.64		
26 05 33 13-0406 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement 275.09 24.76 For Work In Restricted Working Space, Add 18.57 For Elevated Installation >10' To 15' Above Floor, Add 6.19 For Elevated Installation >15' To 20' Above Floor, Add 12.38 For Elevated Installation >20' To 25' Above Floor, Add 15.48 For Elevated Installation >25' To 30' Above Floor, Add 21.67 For Elevated Installation >30' To 35' Above Floor, Add 24.76 For Elevated Installation >35' To 40' Above Floor, Add 30.96 For Elevated Installation >40' Above Floor, Add 34.05		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0407 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	335.34	27.23
For Work In Restricted Working Space, Add	20.43	
For Elevated Installation >10' To 15' Above Floor, Add	6.81	
For Elevated Installation >15' To 20' Above Floor, Add	13.62	
For Elevated Installation >20' To 25' Above Floor, Add	17.02	
For Elevated Installation >25' To 30' Above Floor, Add	23.83	
For Elevated Installation >30' To 35' Above Floor, Add	27.24	
For Elevated Installation >35' To 40' Above Floor, Add	34.05	
For Elevated Installation >40' Above Floor, Add	37.45	
26 05 33 13-0408 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	453.76	29.71
For Work In Restricted Working Space, Add	22.28	
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.85	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	25.99	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33 13-0409 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	627.68	32.19
For Work In Restricted Working Space, Add	24.14	
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.18	
For Elevated Installation >35' To 40' Above Floor, Add	40.23	
For Elevated Installation >40' Above Floor, Add	44.25	
26 05 33 13-0410 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	978.33	39.62
For Work In Restricted Working Space, Add	29.71	
For Elevated Installation >10' To 15' Above Floor, Add	9.90	
For Elevated Installation >15' To 20' Above Floor, Add	19.81	
For Elevated Installation >20' To 25' Above Floor, Add	24.76	
For Elevated Installation >25' To 30' Above Floor, Add	34.66	
For Elevated Installation >30' To 35' Above Floor, Add	39.62	
For Elevated Installation >35' To 40' Above Floor, Add	49.52	
For Elevated Installation >40' Above Floor, Add	54.47	
26 05 33 13-0411 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,319.94	49.52
For Work In Restricted Working Space, Add	37.14	
For Elevated Installation >10' To 15' Above Floor, Add	12.38	
For Elevated Installation >15' To 20' Above Floor, Add	24.76	
For Elevated Installation >20' To 25' Above Floor, Add	30.95	
For Elevated Installation >25' To 30' Above Floor, Add	43.33	
For Elevated Installation >30' To 35' Above Floor, Add	49.52	
For Elevated Installation >35' To 40' Above Floor, Add	61.90	
For Elevated Installation >40' Above Floor, Add	68.09	
26 05 33 13-0412 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,986.70	59.42
For Work In Restricted Working Space, Add	44.57	
For Elevated Installation >10' To 15' Above Floor, Add	14.86	
For Elevated Installation >15' To 20' Above Floor, Add	29.72	
For Elevated Installation >20' To 25' Above Floor, Add	37.15	
For Elevated Installation >25' To 30' Above Floor, Add	52.00	
For Elevated Installation >30' To 35' Above Floor, Add	59.43	
For Elevated Installation >35' To 40' Above Floor, Add	74.29	
For Elevated Installation >40' Above Floor, Add	81.72	
26 05 33 13-0413 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,055.37	64.38
For Work In Restricted Working Space, Add	48.28	
For Elevated Installation >10' To 15' Above Floor, Add	16.09	
For Elevated Installation >15' To 20' Above Floor, Add	32.18	
For Elevated Installation >20' To 25' Above Floor, Add	40.23	
For Elevated Installation >25' To 30' Above Floor, Add	56.32	
For Elevated Installation >30' To 35' Above Floor, Add	64.37	
For Elevated Installation >35' To 40' Above Floor, Add	80.46	
For Elevated Installation >40' Above Floor, Add	88.51	
26 05 33 13-0414 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	3,098.89	79.23
For Work In Restricted Working Space, Add	59.43	
For Elevated Installation >10' To 15' Above Floor, Add	19.81	
For Elevated Installation >15' To 20' Above Floor, Add	39.62	
For Elevated Installation >20' To 25' Above Floor, Add	49.52	
For Elevated Installation >25' To 30' Above Floor, Add	69.33	
For Elevated Installation >30' To 35' Above Floor, Add	79.24	
For Elevated Installation >35' To 40' Above Floor, Add	99.05	
For Elevated Installation >40' Above Floor, Add	108.95	
26 05 33 13-0415 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	3,844.93	87.90
For Work In Restricted Working Space, Add	65.96	
For Elevated Installation >10' To 15' Above Floor, Add	21.99	
For Elevated Installation >15' To 20' Above Floor, Add	43.97	
For Elevated Installation >20' To 25' Above Floor, Add	54.97	
For Elevated Installation >25' To 30' Above Floor, Add	76.95	
For Elevated Installation >30' To 35' Above Floor, Add	87.95	
For Elevated Installation >35' To 40' Above Floor, Add	109.94	
For Elevated Installation >40' Above Floor, Add	120.93	

26 05 33 13-0416 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection
Expansion Fittings (26 05 33 13-0060)

Note: Type DX



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0417	EA	1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	307.22	19.81
			For Work In Restricted Working Space, Add	14.86	
			For Elevated Installation >10' To 15' Above Floor, Add	4.95	
			For Elevated Installation >15' To 20' Above Floor, Add	9.91	
			For Elevated Installation >20' To 25' Above Floor, Add	12.38	
			For Elevated Installation >25' To 30' Above Floor, Add	17.34	
			For Elevated Installation >30' To 35' Above Floor, Add	19.81	
			For Elevated Installation >35' To 40' Above Floor, Add	24.77	
			For Elevated Installation >40' Above Floor, Add	27.24	
26 05 33 13-0418	EA	3/4"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	366.39	22.29
			For Work In Restricted Working Space, Add	16.71	
			For Elevated Installation >10' To 15' Above Floor, Add	5.57	
			For Elevated Installation >15' To 20' Above Floor, Add	11.14	
			For Elevated Installation >20' To 25' Above Floor, Add	13.93	
			For Elevated Installation >25' To 30' Above Floor, Add	19.50	
			For Elevated Installation >30' To 35' Above Floor, Add	22.28	
			For Elevated Installation >35' To 40' Above Floor, Add	27.86	
			For Elevated Installation >40' Above Floor, Add	30.64	
26 05 33 13-0419	EA	1"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	443.56	24.76
			For Work In Restricted Working Space, Add	18.57	
			For Elevated Installation >10' To 15' Above Floor, Add	6.19	
			For Elevated Installation >15' To 20' Above Floor, Add	12.38	
			For Elevated Installation >20' To 25' Above Floor, Add	15.48	
			For Elevated Installation >25' To 30' Above Floor, Add	21.67	
			For Elevated Installation >30' To 35' Above Floor, Add	24.76	
			For Elevated Installation >35' To 40' Above Floor, Add	30.96	
			For Elevated Installation >40' Above Floor, Add	34.05	
26 05 33 13-0420	EA	1-1/4"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	522.01	27.23
			For Work In Restricted Working Space, Add	20.43	
			For Elevated Installation >10' To 15' Above Floor, Add	6.81	
			For Elevated Installation >15' To 20' Above Floor, Add	13.62	
			For Elevated Installation >20' To 25' Above Floor, Add	17.02	
			For Elevated Installation >25' To 30' Above Floor, Add	23.83	
			For Elevated Installation >30' To 35' Above Floor, Add	27.24	
			For Elevated Installation >35' To 40' Above Floor, Add	34.05	
			For Elevated Installation >40' Above Floor, Add	37.45	
26 05 33 13-0421	EA	1-1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	577.39	29.71
			For Work In Restricted Working Space, Add	22.28	
			For Elevated Installation >10' To 15' Above Floor, Add	7.43	
			For Elevated Installation >15' To 20' Above Floor, Add	14.85	
			For Elevated Installation >20' To 25' Above Floor, Add	18.57	
			For Elevated Installation >25' To 30' Above Floor, Add	25.99	
			For Elevated Installation >30' To 35' Above Floor, Add	29.71	
			For Elevated Installation >35' To 40' Above Floor, Add	37.14	
			For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33 13-0422	EA	2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	714.99	32.19
			For Work In Restricted Working Space, Add	24.14	
			For Elevated Installation >10' To 15' Above Floor, Add	8.05	
			For Elevated Installation >15' To 20' Above Floor, Add	16.09	
			For Elevated Installation >20' To 25' Above Floor, Add	20.12	
			For Elevated Installation >25' To 30' Above Floor, Add	28.16	
			For Elevated Installation >30' To 35' Above Floor, Add	32.18	
			For Elevated Installation >35' To 40' Above Floor, Add	40.23	
			For Elevated Installation >40' Above Floor, Add	44.25	
26 05 33 13-0423	EA	2-1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	945.91	39.62
			For Work In Restricted Working Space, Add	29.71	
			For Elevated Installation >10' To 15' Above Floor, Add	9.90	
			For Elevated Installation >15' To 20' Above Floor, Add	19.81	
			For Elevated Installation >20' To 25' Above Floor, Add	24.76	
			For Elevated Installation >25' To 30' Above Floor, Add	34.66	
			For Elevated Installation >30' To 35' Above Floor, Add	39.62	
			For Elevated Installation >35' To 40' Above Floor, Add	49.52	
			For Elevated Installation >40' Above Floor, Add	54.47	
26 05 33 13-0424	EA	3"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,199.83	49.52
			For Work In Restricted Working Space, Add	37.14	
			For Elevated Installation >10' To 15' Above Floor, Add	12.38	
			For Elevated Installation >15' To 20' Above Floor, Add	24.76	
			For Elevated Installation >20' To 25' Above Floor, Add	30.95	
			For Elevated Installation >25' To 30' Above Floor, Add	43.33	
			For Elevated Installation >30' To 35' Above Floor, Add	49.52	
			For Elevated Installation >35' To 40' Above Floor, Add	61.90	
			For Elevated Installation >40' Above Floor, Add	68.09	
26 05 33 13-0425	EA	3-1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,348.91	59.42
			For Work In Restricted Working Space, Add	44.57	
			For Elevated Installation >10' To 15' Above Floor, Add	14.86	
			For Elevated Installation >15' To 20' Above Floor, Add	29.72	
			For Elevated Installation >20' To 25' Above Floor, Add	37.15	
			For Elevated Installation >25' To 30' Above Floor, Add	52.00	
			For Elevated Installation >30' To 35' Above Floor, Add	59.43	
			For Elevated Installation >35' To 40' Above Floor, Add	74.29	
			For Elevated Installation >40' Above Floor, Add	81.72	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0426 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,638.06	64.38
For Work In Restricted Working Space, Add	48.28	
For Elevated Installation >10' To 15' Above Floor, Add	16.09	
For Elevated Installation >15' To 20' Above Floor, Add	32.18	
For Elevated Installation >20' To 25' Above Floor, Add	40.23	
For Elevated Installation >25' To 30' Above Floor, Add	56.32	
For Elevated Installation >30' To 35' Above Floor, Add	64.37	
For Elevated Installation >35' To 40' Above Floor, Add	80.46	
For Elevated Installation >40' Above Floor, Add	88.51	
26 05 33 13-0427 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	2,811.11	79.23
For Work In Restricted Working Space, Add	59.43	
For Elevated Installation >10' To 15' Above Floor, Add	19.81	
For Elevated Installation >15' To 20' Above Floor, Add	39.62	
For Elevated Installation >20' To 25' Above Floor, Add	49.52	
For Elevated Installation >25' To 30' Above Floor, Add	69.33	
For Elevated Installation >30' To 35' Above Floor, Add	79.24	
For Elevated Installation >35' To 40' Above Floor, Add	99.05	
For Elevated Installation >40' Above Floor, Add	108.95	
26 05 33 13-0428 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	4,481.34	87.90
For Work In Restricted Working Space, Add	65.96	
For Elevated Installation >10' To 15' Above Floor, Add	21.99	
For Elevated Installation >15' To 20' Above Floor, Add	43.97	
For Elevated Installation >20' To 25' Above Floor, Add	54.97	
For Elevated Installation >25' To 30' Above Floor, Add	76.95	
For Elevated Installation >30' To 35' Above Floor, Add	87.95	
For Elevated Installation >35' To 40' Above Floor, Add	109.94	
For Elevated Installation >40' Above Floor, Add	120.93	
26 05 33 13-0429 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0060)		
26 05 33 13-0430 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper.....	77.89	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
26 05 33 13-0431 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper	89.46	12.38
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.84	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.03	
26 05 33 13-0432 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper	110.40	14.86
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
26 05 33 13-0433 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper	155.39	19.81
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
26 05 33 13-0434 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper	235.50	29.71
For Work In Restricted Working Space, Add	22.28	
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.86	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	26.00	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33 13-0435 EA 5" To 6" Conduit, 14" Bonding Jumper	405.36	39.62
For Work In Restricted Working Space, Add	29.71	
For Elevated Installation >10' To 15' Above Floor, Add	9.90	
For Elevated Installation >15' To 20' Above Floor, Add	19.81	
For Elevated Installation >20' To 25' Above Floor, Add	24.76	
For Elevated Installation >25' To 30' Above Floor, Add	34.66	
For Elevated Installation >30' To 35' Above Floor, Add	39.62	
For Elevated Installation >35' To 40' Above Floor, Add	49.52	
For Elevated Installation >40' Above Floor, Add	54.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0436 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper	86.99	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
26 05 33 13-0437 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper	100.96	12.38
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.84	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.03	
26 05 33 13-0438 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper	120.93	14.86
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
26 05 33 13-0439 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper	169.37	19.81
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
26 05 33 13-0440 EA 3-1/2" To 4" Conduit, 24" Bonding Jumper	254.05	29.71
For Work In Restricted Working Space, Add	22.28	
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.86	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	26.00	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33 13-0441 EA 5" To 6" Conduit, 24" Bonding Jumper	465.17	39.62
For Work In Restricted Working Space, Add	29.71	
For Elevated Installation >10' To 15' Above Floor, Add	9.90	
For Elevated Installation >15' To 20' Above Floor, Add	19.81	
For Elevated Installation >20' To 25' Above Floor, Add	24.76	
For Elevated Installation >25' To 30' Above Floor, Add	34.66	
For Elevated Installation >30' To 35' Above Floor, Add	39.62	
For Elevated Installation >35' To 40' Above Floor, Add	49.52	
For Elevated Installation >40' Above Floor, Add	54.47	
26 05 33 13-0442 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0060)		
26 05 33 13-0443 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	105.80	30.95
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33 13-0444 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	125.84	37.14
For Work In Restricted Working Space, Add	22.28	
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.86	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	26.00	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.28	
26 05 33 13-0445 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	152.92	43.33
For Work In Restricted Working Space, Add	26.00	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.33	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.33	
For Elevated Installation >30' To 35' Above Floor, Add	34.66	
For Elevated Installation >35' To 40' Above Floor, Add	43.33	
For Elevated Installation >40' Above Floor, Add	47.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.00	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0446 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	179.50	49.52
For Work In Restricted Working Space, Add	29.71	
For Elevated Installation >10' To 15' Above Floor, Add	9.90	
For Elevated Installation >15' To 20' Above Floor, Add	19.81	
For Elevated Installation >20' To 25' Above Floor, Add	24.76	
For Elevated Installation >25' To 30' Above Floor, Add	34.66	
For Elevated Installation >30' To 35' Above Floor, Add	39.62	
For Elevated Installation >35' To 40' Above Floor, Add	49.52	
For Elevated Installation >40' Above Floor, Add	54.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 05 33 13-0447 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	232.56	55.71
For Work In Restricted Working Space, Add	33.43	
For Elevated Installation >10' To 15' Above Floor, Add	11.14	
For Elevated Installation >15' To 20' Above Floor, Add	22.28	
For Elevated Installation >20' To 25' Above Floor, Add	27.86	
For Elevated Installation >25' To 30' Above Floor, Add	39.00	
For Elevated Installation >30' To 35' Above Floor, Add	44.57	
For Elevated Installation >35' To 40' Above Floor, Add	55.71	
For Elevated Installation >40' Above Floor, Add	61.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.43	
26 05 33 13-0448 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	280.76	61.90
For Work In Restricted Working Space, Add	37.14	
For Elevated Installation >10' To 15' Above Floor, Add	12.38	
For Elevated Installation >15' To 20' Above Floor, Add	24.76	
For Elevated Installation >20' To 25' Above Floor, Add	30.95	
For Elevated Installation >25' To 30' Above Floor, Add	43.33	
For Elevated Installation >30' To 35' Above Floor, Add	49.52	
For Elevated Installation >35' To 40' Above Floor, Add	61.90	
For Elevated Installation >40' Above Floor, Add	68.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.14	
26 05 33 13-0449 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal	392.42	74.28
For Work In Restricted Working Space, Add	44.57	
For Elevated Installation >10' To 15' Above Floor, Add	14.86	
For Elevated Installation >15' To 20' Above Floor, Add	29.71	
For Elevated Installation >20' To 25' Above Floor, Add	37.14	
For Elevated Installation >25' To 30' Above Floor, Add	52.00	
For Elevated Installation >30' To 35' Above Floor, Add	59.42	
For Elevated Installation >35' To 40' Above Floor, Add	74.28	
For Elevated Installation >40' Above Floor, Add	81.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.57	
26 05 33 13-0450 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	471.21	86.66
For Work In Restricted Working Space, Add	52.00	
For Elevated Installation >10' To 15' Above Floor, Add	17.33	
For Elevated Installation >15' To 20' Above Floor, Add	34.66	
For Elevated Installation >20' To 25' Above Floor, Add	43.33	
For Elevated Installation >25' To 30' Above Floor, Add	60.66	
For Elevated Installation >30' To 35' Above Floor, Add	69.33	
For Elevated Installation >35' To 40' Above Floor, Add	86.66	
For Elevated Installation >40' Above Floor, Add	95.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.00	
26 05 33 13-0451 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	1,057.22	99.04
For Work In Restricted Working Space, Add	59.43	
For Elevated Installation >10' To 15' Above Floor, Add	19.81	
For Elevated Installation >15' To 20' Above Floor, Add	39.62	
For Elevated Installation >20' To 25' Above Floor, Add	49.52	
For Elevated Installation >25' To 30' Above Floor, Add	69.33	
For Elevated Installation >30' To 35' Above Floor, Add	79.24	
For Elevated Installation >35' To 40' Above Floor, Add	99.05	
For Elevated Installation >40' Above Floor, Add	108.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.43	
26 05 33 13-0452 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	1,217.15	111.42
For Work In Restricted Working Space, Add	66.85	
For Elevated Installation >10' To 15' Above Floor, Add	22.28	
For Elevated Installation >15' To 20' Above Floor, Add	44.57	
For Elevated Installation >20' To 25' Above Floor, Add	55.71	
For Elevated Installation >25' To 30' Above Floor, Add	77.99	
For Elevated Installation >30' To 35' Above Floor, Add	89.14	
For Elevated Installation >35' To 40' Above Floor, Add	111.42	
For Elevated Installation >40' Above Floor, Add	122.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.85	
26 05 33 13-0453 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0060)		
26 05 33 13-0454 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling	16.31	7.43
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0455 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	22.86	10.53
For Work In Restricted Working Space, Add	6.31	
For Elevated Installation >10' To 15' Above Floor, Add	2.10	
For Elevated Installation >15' To 20' Above Floor, Add	4.21	
For Elevated Installation >20' To 25' Above Floor, Add	5.26	
For Elevated Installation >25' To 30' Above Floor, Add	7.36	
For Elevated Installation >30' To 35' Above Floor, Add	8.42	
For Elevated Installation >35' To 40' Above Floor, Add	10.52	
For Elevated Installation >40' Above Floor, Add	11.57	
26 05 33 13-0456 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling.....	30.00	13.62
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
26 05 33 13-0457 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	34.45	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
26 05 33 13-0458 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	41.52	18.57
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
26 05 33 13-0459 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	48.62	21.04
For Work In Restricted Working Space, Add	12.63	
For Elevated Installation >10' To 15' Above Floor, Add	4.21	
For Elevated Installation >15' To 20' Above Floor, Add	8.42	
For Elevated Installation >20' To 25' Above Floor, Add	10.52	
For Elevated Installation >25' To 30' Above Floor, Add	14.73	
For Elevated Installation >30' To 35' Above Floor, Add	16.84	
For Elevated Installation >35' To 40' Above Floor, Add	21.05	
For Elevated Installation >40' Above Floor, Add	23.15	
26 05 33 13-0460 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	61.70	23.52
For Work In Restricted Working Space, Add	14.11	
For Elevated Installation >10' To 15' Above Floor, Add	4.70	
For Elevated Installation >15' To 20' Above Floor, Add	9.41	
For Elevated Installation >20' To 25' Above Floor, Add	11.76	
For Elevated Installation >25' To 30' Above Floor, Add	16.46	
For Elevated Installation >30' To 35' Above Floor, Add	18.82	
For Elevated Installation >35' To 40' Above Floor, Add	23.52	
For Elevated Installation >40' Above Floor, Add	25.87	
26 05 33 13-0461 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	72.29	26.62
For Work In Restricted Working Space, Add	15.97	
For Elevated Installation >10' To 15' Above Floor, Add	5.32	
For Elevated Installation >15' To 20' Above Floor, Add	10.65	
For Elevated Installation >20' To 25' Above Floor, Add	13.31	
For Elevated Installation >25' To 30' Above Floor, Add	18.63	
For Elevated Installation >30' To 35' Above Floor, Add	21.29	
For Elevated Installation >35' To 40' Above Floor, Add	26.62	
For Elevated Installation >40' Above Floor, Add	29.28	
26 05 33 13-0462 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	83.94	29.09
For Work In Restricted Working Space, Add	17.46	
For Elevated Installation >10' To 15' Above Floor, Add	5.82	
For Elevated Installation >15' To 20' Above Floor, Add	11.64	
For Elevated Installation >20' To 25' Above Floor, Add	14.55	
For Elevated Installation >25' To 30' Above Floor, Add	20.37	
For Elevated Installation >30' To 35' Above Floor, Add	23.28	
For Elevated Installation >35' To 40' Above Floor, Add	29.10	
For Elevated Installation >40' Above Floor, Add	32.00	
26 05 33 13-0463 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	88.72	30.95
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
26 05 33 13-0464 Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0060)		
26 05 33 13-0465 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.76	1.23
26 05 33 13-0466 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	5.19	1.86
26 05 33 13-0467 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	8.63	3.09

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0468 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	12.48	4.33
26 05 33 13-0469 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	14.93	4.96
26 05 33 13-0470 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	17.55	5.57
26 05 33 13-0471 Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0060)		
26 05 33 13-0472 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	212.45	15.03
For Work In Restricted Working Space, Add	11.27	
For Elevated Installation >10' To 15' Above Floor, Add	3.76	
For Elevated Installation >15' To 20' Above Floor, Add	7.51	
For Elevated Installation >20' To 25' Above Floor, Add	9.39	
For Elevated Installation >25' To 30' Above Floor, Add	13.15	
For Elevated Installation >30' To 35' Above Floor, Add	15.02	
For Elevated Installation >35' To 40' Above Floor, Add	18.78	
For Elevated Installation >40' Above Floor, Add	20.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.27	
26 05 33 13-0473 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	216.08	16.47
For Work In Restricted Working Space, Add	12.36	
For Elevated Installation >10' To 15' Above Floor, Add	4.12	
For Elevated Installation >15' To 20' Above Floor, Add	8.24	
For Elevated Installation >20' To 25' Above Floor, Add	10.30	
For Elevated Installation >25' To 30' Above Floor, Add	14.42	
For Elevated Installation >30' To 35' Above Floor, Add	16.48	
For Elevated Installation >35' To 40' Above Floor, Add	20.60	
For Elevated Installation >40' Above Floor, Add	22.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.36	
26 05 33 13-0474 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	259.15	18.07
For Work In Restricted Working Space, Add	13.53	
For Elevated Installation >10' To 15' Above Floor, Add	4.51	
For Elevated Installation >15' To 20' Above Floor, Add	9.02	
For Elevated Installation >20' To 25' Above Floor, Add	11.28	
For Elevated Installation >25' To 30' Above Floor, Add	15.79	
For Elevated Installation >30' To 35' Above Floor, Add	18.04	
For Elevated Installation >35' To 40' Above Floor, Add	22.55	
For Elevated Installation >40' Above Floor, Add	24.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.53	
26 05 33 13-0475 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	284.49	19.81
For Work In Restricted Working Space, Add	14.87	
For Elevated Installation >10' To 15' Above Floor, Add	4.96	
For Elevated Installation >15' To 20' Above Floor, Add	9.91	
For Elevated Installation >20' To 25' Above Floor, Add	12.39	
For Elevated Installation >25' To 30' Above Floor, Add	17.35	
For Elevated Installation >30' To 35' Above Floor, Add	19.82	
For Elevated Installation >35' To 40' Above Floor, Add	24.78	
For Elevated Installation >40' Above Floor, Add	27.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.87	
26 05 33 13-0476 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	324.58	22.29
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.71	
26 05 33 13-0477 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	479.59	24.76
For Work In Restricted Working Space, Add	18.58	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.39	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.68	
For Elevated Installation >30' To 35' Above Floor, Add	24.77	
For Elevated Installation >35' To 40' Above Floor, Add	30.97	
For Elevated Installation >40' Above Floor, Add	34.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.58	
26 05 33 13-0478 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	552.45	33.05
For Work In Restricted Working Space, Add	24.77	
For Elevated Installation >10' To 15' Above Floor, Add	8.26	
For Elevated Installation >15' To 20' Above Floor, Add	16.52	
For Elevated Installation >20' To 25' Above Floor, Add	20.65	
For Elevated Installation >25' To 30' Above Floor, Add	28.90	
For Elevated Installation >30' To 35' Above Floor, Add	33.03	
For Elevated Installation >35' To 40' Above Floor, Add	41.29	
For Elevated Installation >40' Above Floor, Add	45.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.77	
26 05 33 13-0479 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	612.82	36.27
For Work In Restricted Working Space, Add	27.23	
For Elevated Installation >10' To 15' Above Floor, Add	9.08	
For Elevated Installation >15' To 20' Above Floor, Add	18.15	
For Elevated Installation >20' To 25' Above Floor, Add	22.69	
For Elevated Installation >25' To 30' Above Floor, Add	31.76	
For Elevated Installation >30' To 35' Above Floor, Add	36.30	
For Elevated Installation >35' To 40' Above Floor, Add	45.38	
For Elevated Installation >40' Above Floor, Add	49.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.23	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0480	EA	3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	712.50	39.62
		For Work In Restricted Working Space, Add	29.72	
		For Elevated Installation >10' To 15' Above Floor, Add	9.91	
		For Elevated Installation >15' To 20' Above Floor, Add	19.81	
		For Elevated Installation >20' To 25' Above Floor, Add	24.77	
		For Elevated Installation >25' To 30' Above Floor, Add	34.67	
		For Elevated Installation >30' To 35' Above Floor, Add	39.62	
		For Elevated Installation >35' To 40' Above Floor, Add	49.53	
		For Elevated Installation >40' Above Floor, Add	54.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.72	
26 05 33 13-0481	EA	4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	803.17	44.57
		For Work In Restricted Working Space, Add	33.43	
		For Elevated Installation >10' To 15' Above Floor, Add	11.14	
		For Elevated Installation >15' To 20' Above Floor, Add	22.28	
		For Elevated Installation >20' To 25' Above Floor, Add	27.86	
		For Elevated Installation >25' To 30' Above Floor, Add	39.00	
		For Elevated Installation >30' To 35' Above Floor, Add	44.57	
		For Elevated Installation >35' To 40' Above Floor, Add	55.71	
		For Elevated Installation >40' Above Floor, Add	61.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.43	
26 05 33 13-0482	EA	5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,076.58	49.52
		For Work In Restricted Working Space, Add	37.14	
		For Elevated Installation >10' To 15' Above Floor, Add	12.38	
		For Elevated Installation >15' To 20' Above Floor, Add	24.76	
		For Elevated Installation >20' To 25' Above Floor, Add	30.95	
		For Elevated Installation >25' To 30' Above Floor, Add	43.33	
		For Elevated Installation >30' To 35' Above Floor, Add	49.52	
		For Elevated Installation >35' To 40' Above Floor, Add	61.90	
		For Elevated Installation >40' Above Floor, Add	68.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.14	
26 05 33 13-0483	EA	6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,338.19	54.97
		For Work In Restricted Working Space, Add	41.23	
		For Elevated Installation >10' To 15' Above Floor, Add	13.74	
		For Elevated Installation >15' To 20' Above Floor, Add	27.48	
		For Elevated Installation >20' To 25' Above Floor, Add	34.36	
		For Elevated Installation >25' To 30' Above Floor, Add	48.10	
		For Elevated Installation >30' To 35' Above Floor, Add	54.97	
		For Elevated Installation >35' To 40' Above Floor, Add	68.71	
		For Elevated Installation >40' Above Floor, Add	75.58	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.23	
26 05 33 13-0484		Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0060)		
26 05 33 13-0485	EA	3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	20.18	9.59
		For Work In Restricted Working Space, Add	5.76	
		For Elevated Installation >10' To 15' Above Floor, Add	1.92	
		For Elevated Installation >15' To 20' Above Floor, Add	3.84	
		For Elevated Installation >20' To 25' Above Floor, Add	4.80	
		For Elevated Installation >25' To 30' Above Floor, Add	6.72	
		For Elevated Installation >30' To 35' Above Floor, Add	7.68	
		For Elevated Installation >35' To 40' Above Floor, Add	9.60	
		For Elevated Installation >40' Above Floor, Add	10.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.76	
26 05 33 13-0486	EA	1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	22.25	10.21
		For Work In Restricted Working Space, Add	6.13	
		For Elevated Installation >10' To 15' Above Floor, Add	2.04	
		For Elevated Installation >15' To 20' Above Floor, Add	4.09	
		For Elevated Installation >20' To 25' Above Floor, Add	5.11	
		For Elevated Installation >25' To 30' Above Floor, Add	7.15	
		For Elevated Installation >30' To 35' Above Floor, Add	8.17	
		For Elevated Installation >35' To 40' Above Floor, Add	10.22	
		For Elevated Installation >40' Above Floor, Add	11.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.13	
26 05 33 13-0487	EA	1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	22.86	10.53
		For Work In Restricted Working Space, Add	6.31	
		For Elevated Installation >10' To 15' Above Floor, Add	2.10	
		For Elevated Installation >15' To 20' Above Floor, Add	4.21	
		For Elevated Installation >20' To 25' Above Floor, Add	5.26	
		For Elevated Installation >25' To 30' Above Floor, Add	7.36	
		For Elevated Installation >30' To 35' Above Floor, Add	8.42	
		For Elevated Installation >35' To 40' Above Floor, Add	10.52	
		For Elevated Installation >40' Above Floor, Add	11.57	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.31	
26 05 33 13-0488	EA	1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	26.38	10.84
		For Work In Restricted Working Space, Add	6.50	
		For Elevated Installation >10' To 15' Above Floor, Add	2.17	
		For Elevated Installation >15' To 20' Above Floor, Add	4.33	
		For Elevated Installation >20' To 25' Above Floor, Add	5.42	
		For Elevated Installation >25' To 30' Above Floor, Add	7.58	
		For Elevated Installation >30' To 35' Above Floor, Add	8.66	
		For Elevated Installation >35' To 40' Above Floor, Add	10.83	
		For Elevated Installation >40' Above Floor, Add	11.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0489	EA	1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	27.01	11.14
		For Work In Restricted Working Space, Add		6.69	
		For Elevated Installation >10' To 15' Above Floor, Add		2.23	
		For Elevated Installation >15' To 20' Above Floor, Add		4.46	
		For Elevated Installation >20' To 25' Above Floor, Add		5.57	
		For Elevated Installation >25' To 30' Above Floor, Add		7.80	
		For Elevated Installation >30' To 35' Above Floor, Add		8.92	
		For Elevated Installation >35' To 40' Above Floor, Add		11.15	
		For Elevated Installation >40' Above Floor, Add		12.26	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.69	
26 05 33 13-0490	EA	1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	28.24	11.76
		For Work In Restricted Working Space, Add		7.06	
		For Elevated Installation >10' To 15' Above Floor, Add		2.35	
		For Elevated Installation >15' To 20' Above Floor, Add		4.70	
		For Elevated Installation >20' To 25' Above Floor, Add		5.88	
		For Elevated Installation >25' To 30' Above Floor, Add		8.23	
		For Elevated Installation >30' To 35' Above Floor, Add		9.41	
		For Elevated Installation >35' To 40' Above Floor, Add		11.76	
		For Elevated Installation >40' Above Floor, Add		12.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.06	
26 05 33 13-0491	EA	1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	30.48	12.38
		For Work In Restricted Working Space, Add		7.43	
		For Elevated Installation >10' To 15' Above Floor, Add		2.48	
		For Elevated Installation >15' To 20' Above Floor, Add		4.95	
		For Elevated Installation >20' To 25' Above Floor, Add		6.19	
		For Elevated Installation >25' To 30' Above Floor, Add		8.67	
		For Elevated Installation >30' To 35' Above Floor, Add		9.90	
		For Elevated Installation >35' To 40' Above Floor, Add		12.38	
		For Elevated Installation >40' Above Floor, Add		13.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.43	
26 05 33 13-0492	EA	1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	31.10	12.69
		For Work In Restricted Working Space, Add		7.61	
		For Elevated Installation >10' To 15' Above Floor, Add		2.54	
		For Elevated Installation >15' To 20' Above Floor, Add		5.08	
		For Elevated Installation >20' To 25' Above Floor, Add		6.35	
		For Elevated Installation >25' To 30' Above Floor, Add		8.88	
		For Elevated Installation >30' To 35' Above Floor, Add		10.15	
		For Elevated Installation >35' To 40' Above Floor, Add		12.69	
		For Elevated Installation >40' Above Floor, Add		13.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.61	
26 05 33 13-0493	EA	1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	32.34	13.31
		For Work In Restricted Working Space, Add		7.99	
		For Elevated Installation >10' To 15' Above Floor, Add		2.66	
		For Elevated Installation >15' To 20' Above Floor, Add		5.32	
		For Elevated Installation >20' To 25' Above Floor, Add		6.66	
		For Elevated Installation >25' To 30' Above Floor, Add		9.32	
		For Elevated Installation >30' To 35' Above Floor, Add		10.65	
		For Elevated Installation >35' To 40' Above Floor, Add		13.31	
		For Elevated Installation >40' Above Floor, Add		14.64	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.99	
26 05 33 13-0494	EA	1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	33.57	13.93
		For Work In Restricted Working Space, Add		8.36	
		For Elevated Installation >10' To 15' Above Floor, Add		2.79	
		For Elevated Installation >15' To 20' Above Floor, Add		5.57	
		For Elevated Installation >20' To 25' Above Floor, Add		6.96	
		For Elevated Installation >25' To 30' Above Floor, Add		9.75	
		For Elevated Installation >30' To 35' Above Floor, Add		11.14	
		For Elevated Installation >35' To 40' Above Floor, Add		13.93	
		For Elevated Installation >40' Above Floor, Add		15.32	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.36	
26 05 33 13-0495	EA	2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	40.41	13.93
		For Work In Restricted Working Space, Add		8.36	
		For Elevated Installation >10' To 15' Above Floor, Add		2.79	
		For Elevated Installation >15' To 20' Above Floor, Add		5.57	
		For Elevated Installation >20' To 25' Above Floor, Add		6.96	
		For Elevated Installation >25' To 30' Above Floor, Add		9.75	
		For Elevated Installation >30' To 35' Above Floor, Add		11.14	
		For Elevated Installation >35' To 40' Above Floor, Add		13.93	
		For Elevated Installation >40' Above Floor, Add		15.32	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.36	
26 05 33 13-0496	EA	2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	.....	41.04	14.24
		For Work In Restricted Working Space, Add		8.54	
		For Elevated Installation >10' To 15' Above Floor, Add		2.85	
		For Elevated Installation >15' To 20' Above Floor, Add		5.70	
		For Elevated Installation >20' To 25' Above Floor, Add		7.12	
		For Elevated Installation >25' To 30' Above Floor, Add		9.97	
		For Elevated Installation >30' To 35' Above Floor, Add		11.39	
		For Elevated Installation >35' To 40' Above Floor, Add		14.24	
		For Elevated Installation >40' Above Floor, Add		15.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0497	EA	2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	42.27	14.86
			For Work In Restricted Working Space, Add	8.91	
			For Elevated Installation >10' To 15' Above Floor, Add	2.97	
			For Elevated Installation >15' To 20' Above Floor, Add	5.94	
			For Elevated Installation >20' To 25' Above Floor, Add	7.43	
			For Elevated Installation >25' To 30' Above Floor, Add	10.40	
			For Elevated Installation >30' To 35' Above Floor, Add	11.88	
			For Elevated Installation >35' To 40' Above Floor, Add	14.86	
			For Elevated Installation >40' Above Floor, Add	16.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.91	
26 05 33	13-0498	EA	2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	43.51	15.47
			For Work In Restricted Working Space, Add	9.29	
			For Elevated Installation >10' To 15' Above Floor, Add	3.10	
			For Elevated Installation >15' To 20' Above Floor, Add	6.19	
			For Elevated Installation >20' To 25' Above Floor, Add	7.74	
			For Elevated Installation >25' To 30' Above Floor, Add	10.83	
			For Elevated Installation >30' To 35' Above Floor, Add	12.38	
			For Elevated Installation >35' To 40' Above Floor, Add	15.48	
			For Elevated Installation >40' Above Floor, Add	17.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33	13-0499	EA	2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	46.61	17.02
			For Work In Restricted Working Space, Add	10.22	
			For Elevated Installation >10' To 15' Above Floor, Add	3.41	
			For Elevated Installation >15' To 20' Above Floor, Add	6.81	
			For Elevated Installation >20' To 25' Above Floor, Add	8.51	
			For Elevated Installation >25' To 30' Above Floor, Add	11.92	
			For Elevated Installation >30' To 35' Above Floor, Add	13.62	
			For Elevated Installation >35' To 40' Above Floor, Add	17.03	
			For Elevated Installation >40' Above Floor, Add	18.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.22	
26 05 33	13-0500	EA	2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	58.85	20.12
			For Work In Restricted Working Space, Add	12.07	
			For Elevated Installation >10' To 15' Above Floor, Add	4.02	
			For Elevated Installation >15' To 20' Above Floor, Add	8.05	
			For Elevated Installation >20' To 25' Above Floor, Add	10.06	
			For Elevated Installation >25' To 30' Above Floor, Add	14.08	
			For Elevated Installation >30' To 35' Above Floor, Add	16.10	
			For Elevated Installation >35' To 40' Above Floor, Add	20.12	
			For Elevated Installation >40' Above Floor, Add	22.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33	13-0501		Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0060)		
26 05 33	13-0502	EA	1/2" Rigid Galvanized Steel (RGS) Locknuts.....	2.57	1.23
			For Work In Restricted Working Space, Add	0.74	
			For Elevated Installation >10' To 15' Above Floor, Add	0.25	
			For Elevated Installation >15' To 20' Above Floor, Add	0.50	
			For Elevated Installation >20' To 25' Above Floor, Add	0.62	
			For Elevated Installation >25' To 30' Above Floor, Add	0.87	
			For Elevated Installation >30' To 35' Above Floor, Add	0.99	
			For Elevated Installation >35' To 40' Above Floor, Add	1.24	
			For Elevated Installation >40' Above Floor, Add	1.36	
26 05 33	13-0503	EA	3/4" Rigid Galvanized Steel (RGS) Locknuts.....	3.84	1.86
			For Work In Restricted Working Space, Add	1.11	
			For Elevated Installation >10' To 15' Above Floor, Add	0.37	
			For Elevated Installation >15' To 20' Above Floor, Add	0.74	
			For Elevated Installation >20' To 25' Above Floor, Add	0.93	
			For Elevated Installation >25' To 30' Above Floor, Add	1.30	
			For Elevated Installation >30' To 35' Above Floor, Add	1.48	
			For Elevated Installation >35' To 40' Above Floor, Add	1.86	
			For Elevated Installation >40' Above Floor, Add	2.04	
26 05 33	13-0504	EA	1" Rigid Galvanized Steel (RGS) Locknuts.....	6.40	3.09
			For Work In Restricted Working Space, Add	1.86	
			For Elevated Installation >10' To 15' Above Floor, Add	0.62	
			For Elevated Installation >15' To 20' Above Floor, Add	1.24	
			For Elevated Installation >20' To 25' Above Floor, Add	1.55	
			For Elevated Installation >25' To 30' Above Floor, Add	2.17	
			For Elevated Installation >30' To 35' Above Floor, Add	2.48	
			For Elevated Installation >35' To 40' Above Floor, Add	3.10	
			For Elevated Installation >40' Above Floor, Add	3.40	
26 05 33	13-0505	EA	1-1/4" Rigid Galvanized Steel (RGS) Locknuts.....	9.02	4.33
			For Work In Restricted Working Space, Add	2.60	
			For Elevated Installation >10' To 15' Above Floor, Add	0.87	
			For Elevated Installation >15' To 20' Above Floor, Add	1.73	
			For Elevated Installation >20' To 25' Above Floor, Add	2.17	
			For Elevated Installation >25' To 30' Above Floor, Add	3.03	
			For Elevated Installation >30' To 35' Above Floor, Add	3.47	
			For Elevated Installation >35' To 40' Above Floor, Add	4.34	
			For Elevated Installation >40' Above Floor, Add	4.77	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0506 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	10.35	4.96
For Work In Restricted Working Space, Add	2.97	
For Elevated Installation >10' To 15' Above Floor, Add	0.99	
For Elevated Installation >15' To 20' Above Floor, Add	1.98	
For Elevated Installation >20' To 25' Above Floor, Add	2.48	
For Elevated Installation >25' To 30' Above Floor, Add	3.47	
For Elevated Installation >30' To 35' Above Floor, Add	3.96	
For Elevated Installation >35' To 40' Above Floor, Add	4.95	
For Elevated Installation >40' Above Floor, Add	5.45	
26 05 33 13-0507 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	11.70	5.57
For Work In Restricted Working Space, Add	3.34	
For Elevated Installation >10' To 15' Above Floor, Add	1.11	
For Elevated Installation >15' To 20' Above Floor, Add	2.23	
For Elevated Installation >20' To 25' Above Floor, Add	2.79	
For Elevated Installation >25' To 30' Above Floor, Add	3.90	
For Elevated Installation >30' To 35' Above Floor, Add	4.46	
For Elevated Installation >35' To 40' Above Floor, Add	5.57	
For Elevated Installation >40' Above Floor, Add	6.13	
26 05 33 13-0508 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	16.35	7.43
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	
26 05 33 13-0509 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	20.21	9.28
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
26 05 33 13-0510 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	23.77	10.53
For Work In Restricted Working Space, Add	6.31	
For Elevated Installation >10' To 15' Above Floor, Add	2.10	
For Elevated Installation >15' To 20' Above Floor, Add	4.21	
For Elevated Installation >20' To 25' Above Floor, Add	5.26	
For Elevated Installation >25' To 30' Above Floor, Add	7.36	
For Elevated Installation >30' To 35' Above Floor, Add	8.42	
For Elevated Installation >35' To 40' Above Floor, Add	10.52	
For Elevated Installation >40' Above Floor, Add	11.57	
26 05 33 13-0511 EA 4" Rigid Galvanized Steel (RGS) Locknuts.....	26.66	11.76
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
26 05 33 13-0512 Rigid Galvanized Steel (RGS) Grounding Locknuts (26 05 33 13-0060)		
26 05 33 13-0513 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	3.84	1.23
For Work In Restricted Working Space, Add	0.74	
For Elevated Installation >10' To 15' Above Floor, Add	0.25	
For Elevated Installation >15' To 20' Above Floor, Add	0.50	
For Elevated Installation >20' To 25' Above Floor, Add	0.62	
For Elevated Installation >25' To 30' Above Floor, Add	0.87	
For Elevated Installation >30' To 35' Above Floor, Add	0.99	
For Elevated Installation >35' To 40' Above Floor, Add	1.24	
For Elevated Installation >40' Above Floor, Add	1.36	
26 05 33 13-0514 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	5.34	1.86
For Work In Restricted Working Space, Add	1.11	
For Elevated Installation >10' To 15' Above Floor, Add	0.37	
For Elevated Installation >15' To 20' Above Floor, Add	0.74	
For Elevated Installation >20' To 25' Above Floor, Add	0.93	
For Elevated Installation >25' To 30' Above Floor, Add	1.30	
For Elevated Installation >30' To 35' Above Floor, Add	1.48	
For Elevated Installation >35' To 40' Above Floor, Add	1.86	
For Elevated Installation >40' Above Floor, Add	2.04	
26 05 33 13-0515 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	8.53	3.09
For Work In Restricted Working Space, Add	1.86	
For Elevated Installation >10' To 15' Above Floor, Add	0.62	
For Elevated Installation >15' To 20' Above Floor, Add	1.24	
For Elevated Installation >20' To 25' Above Floor, Add	1.55	
For Elevated Installation >25' To 30' Above Floor, Add	2.17	
For Elevated Installation >30' To 35' Above Floor, Add	2.48	
For Elevated Installation >35' To 40' Above Floor, Add	3.10	
For Elevated Installation >40' Above Floor, Add	3.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0516 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	11.92 2.60 0.87 1.73 2.17 3.03 3.47 4.34 4.77	4.33
26 05 33 13-0517 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	13.46 2.97 0.99 1.98 2.48 3.47 3.96 4.95 5.45	4.96
26 05 33 13-0518 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	15.79 3.34 1.11 2.23 2.79 3.90 4.46 5.57 6.13	5.57
26 05 33 13-0519 EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	23.49 4.46 1.49 2.97 3.72 5.20 5.94 7.43 8.17	7.43
26 05 33 13-0520 EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	29.53 5.57 1.86 3.71 4.64 6.50 7.43 9.29 10.21	9.28
26 05 33 13-0521 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	38.83 6.31 2.10 4.21 5.26 7.36 8.42 10.52 11.57	10.53
26 05 33 13-0522 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	46.47 7.06 2.35 4.70 5.88 8.23 9.41 11.76 12.94	11.76
26 05 33 13-0523 Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0060)		
26 05 33 13-0524 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	10.83 2.23 0.74 1.49 1.86 2.60 2.97 3.72 4.09	3.71
26 05 33 13-0525 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	13.60 2.97 0.99 1.98 2.48 3.47 3.96 4.95 5.45	4.96

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0526 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	17.36	6.19
For Work In Restricted Working Space, Add	3.71	
For Elevated Installation >10' To 15' Above Floor, Add	1.24	
For Elevated Installation >15' To 20' Above Floor, Add	2.48	
For Elevated Installation >20' To 25' Above Floor, Add	3.10	
For Elevated Installation >25' To 30' Above Floor, Add	4.33	
For Elevated Installation >30' To 35' Above Floor, Add	4.95	
For Elevated Installation >35' To 40' Above Floor, Add	6.19	
For Elevated Installation >40' Above Floor, Add	6.81	
26 05 33 13-0527 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	25.37	9.90
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15' Above Floor, Add	1.98	
For Elevated Installation >15' To 20' Above Floor, Add	3.96	
For Elevated Installation >20' To 25' Above Floor, Add	4.95	
For Elevated Installation >25' To 30' Above Floor, Add	6.93	
For Elevated Installation >30' To 35' Above Floor, Add	7.92	
For Elevated Installation >35' To 40' Above Floor, Add	9.91	
For Elevated Installation >40' Above Floor, Add	10.90	
26 05 33 13-0528 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	28.58	11.14
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15' Above Floor, Add	2.23	
For Elevated Installation >15' To 20' Above Floor, Add	4.46	
For Elevated Installation >20' To 25' Above Floor, Add	5.57	
For Elevated Installation >25' To 30' Above Floor, Add	7.80	
For Elevated Installation >30' To 35' Above Floor, Add	8.92	
For Elevated Installation >35' To 40' Above Floor, Add	11.15	
For Elevated Installation >40' Above Floor, Add	12.26	
26 05 33 13-0529 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	32.47	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
26 05 33 13-0530 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	44.61	14.86
For Work In Restricted Working Space, Add	8.91	
For Elevated Installation >10' To 15' Above Floor, Add	2.97	
For Elevated Installation >15' To 20' Above Floor, Add	5.94	
For Elevated Installation >20' To 25' Above Floor, Add	7.43	
For Elevated Installation >25' To 30' Above Floor, Add	10.40	
For Elevated Installation >30' To 35' Above Floor, Add	11.88	
For Elevated Installation >35' To 40' Above Floor, Add	14.86	
For Elevated Installation >40' Above Floor, Add	16.34	
26 05 33 13-0531 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	54.21	18.57
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
26 05 33 13-0532 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	67.15	24.76
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
26 05 33 13-0533 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	81.83	30.95
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
26 05 33 13-0534 Rigid Galvanized Steel (RGS) Threadless Compression Connectors (26 05 33 13-0060)		
26 05 33 13-0535 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	26.30	11.14
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15' Above Floor, Add	2.23	
For Elevated Installation >15' To 20' Above Floor, Add	4.46	
For Elevated Installation >20' To 25' Above Floor, Add	5.57	
For Elevated Installation >25' To 30' Above Floor, Add	7.80	
For Elevated Installation >30' To 35' Above Floor, Add	8.92	
For Elevated Installation >35' To 40' Above Floor, Add	11.15	
For Elevated Installation >40' Above Floor, Add	12.26	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0536 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	31.22	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
26 05 33 13-0537 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	41.04	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
26 05 33 13-0538 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	56.14	18.57
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
26 05 33 13-0539 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	75.83	24.76
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
26 05 33 13-0540 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	112.38	30.95
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
26 05 33 13-0541 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	190.73	37.14
For Work In Restricted Working Space, Add	22.28	
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.86	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	26.00	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33 13-0542 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	241.04	43.33
For Work In Restricted Working Space, Add	26.00	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.33	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.33	
For Elevated Installation >30' To 35' Above Floor, Add	34.66	
For Elevated Installation >35' To 40' Above Floor, Add	43.33	
For Elevated Installation >40' Above Floor, Add	47.66	
26 05 33 13-0543 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	306.97	52.62
For Work In Restricted Working Space, Add	31.57	
For Elevated Installation >10' To 15' Above Floor, Add	10.52	
For Elevated Installation >15' To 20' Above Floor, Add	21.05	
For Elevated Installation >20' To 25' Above Floor, Add	26.31	
For Elevated Installation >25' To 30' Above Floor, Add	36.83	
For Elevated Installation >30' To 35' Above Floor, Add	42.09	
For Elevated Installation >35' To 40' Above Floor, Add	52.62	
For Elevated Installation >40' Above Floor, Add	57.88	
26 05 33 13-0544 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	370.78	61.90
For Work In Restricted Working Space, Add	37.14	
For Elevated Installation >10' To 15' Above Floor, Add	12.38	
For Elevated Installation >15' To 20' Above Floor, Add	24.76	
For Elevated Installation >20' To 25' Above Floor, Add	30.95	
For Elevated Installation >25' To 30' Above Floor, Add	43.33	
For Elevated Installation >30' To 35' Above Floor, Add	49.52	
For Elevated Installation >35' To 40' Above Floor, Add	61.90	
For Elevated Installation >40' Above Floor, Add	68.09	
26 05 33 13-0545 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0060)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0546 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	37.43	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
26 05 33 13-0547 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling.....	47.52	18.57
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
26 05 33 13-0548 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling.....	67.63	24.76
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
26 05 33 13-0549 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling.....	88.71	30.95
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
26 05 33 13-0550 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	109.19	37.14
For Work In Restricted Working Space, Add	22.28	
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.86	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	26.00	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33 13-0551 EA 2" Rigid Galvanized Steel (RGS) Compression Coupling.....	163.00	43.33
For Work In Restricted Working Space, Add	26.00	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.33	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.33	
For Elevated Installation >30' To 35' Above Floor, Add	34.66	
For Elevated Installation >35' To 40' Above Floor, Add	43.33	
For Elevated Installation >40' Above Floor, Add	47.66	
26 05 33 13-0552 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	259.84	49.52
For Work In Restricted Working Space, Add	29.71	
For Elevated Installation >10' To 15' Above Floor, Add	9.90	
For Elevated Installation >15' To 20' Above Floor, Add	19.81	
For Elevated Installation >20' To 25' Above Floor, Add	24.76	
For Elevated Installation >25' To 30' Above Floor, Add	34.66	
For Elevated Installation >30' To 35' Above Floor, Add	39.62	
For Elevated Installation >35' To 40' Above Floor, Add	49.52	
For Elevated Installation >40' Above Floor, Add	54.47	
26 05 33 13-0553 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling.....	298.46	42.72
For Work In Restricted Working Space, Add	25.63	
For Elevated Installation >10' To 15' Above Floor, Add	8.54	
For Elevated Installation >15' To 20' Above Floor, Add	17.08	
For Elevated Installation >20' To 25' Above Floor, Add	21.36	
For Elevated Installation >25' To 30' Above Floor, Add	29.90	
For Elevated Installation >30' To 35' Above Floor, Add	34.17	
For Elevated Installation >35' To 40' Above Floor, Add	42.71	
For Elevated Installation >40' Above Floor, Add	46.98	
26 05 33 13-0554 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	410.44	64.99
For Work In Restricted Working Space, Add	39.00	
For Elevated Installation >10' To 15' Above Floor, Add	13.00	
For Elevated Installation >15' To 20' Above Floor, Add	26.00	
For Elevated Installation >20' To 25' Above Floor, Add	32.50	
For Elevated Installation >25' To 30' Above Floor, Add	45.50	
For Elevated Installation >30' To 35' Above Floor, Add	52.00	
For Elevated Installation >35' To 40' Above Floor, Add	65.00	
For Elevated Installation >40' Above Floor, Add	71.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0555	EA	4" Rigid Galvanized Steel (RGS) Compression Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	507.42 44.57 14.86 29.71 37.14 52.00 59.42 74.28 81.71	74.28
26 05 33	13-0556		Zinc Plated Steel Snap-in Knock Out Seal (26 05 33 13-0060)		
26 05 33	13-0557	EA	1/2" Zinc Plated Steel Snap-in Knock Out Seal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	6.48 1.86 0.62 1.24 1.55 2.17 2.48 3.10 3.40	3.09
26 05 33	13-0558	EA	3/4" Zinc Plated Steel Snap-in Knock Out Seal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	7.81 2.23 0.74 1.49 1.86 2.60 2.97 3.72 4.09	3.71
26 05 33	13-0559	EA	1" Zinc Plated Steel Snap-in Knock Out Seal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	9.27 2.60 0.87 1.73 2.17 3.03 3.47 4.34 4.77	4.33
26 05 33	13-0560	EA	1-1/4" Zinc Plated Steel Snap-in Knock Out Seal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	11.93 3.34 1.11 2.23 2.79 3.90 4.46 5.57 6.13	5.57
26 05 33	13-0561	EA	1-1/2" Zinc Plated Steel Snap-in Knock Out Seal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	13.48 3.71 1.24 2.48 3.10 4.33 4.95 6.19 6.81	6.19
26 05 33	13-0562	EA	2" Zinc Plated Steel Snap-in Knock Out Seal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	16.40 4.46 1.49 2.97 3.72 5.20 5.94 7.43 8.17	7.43
26 05 33	13-0563		Zinc Plated Steel 3-Piece Knock Out Seal (26 05 33 13-0060)		
26 05 33	13-0564	EA	1/2" Zinc Plated Steel 3-Piece Knock Out Seal <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i>	7.92 1.86 0.62 1.24 1.55 2.17 2.48 3.10 3.40	3.09

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0565 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal.....	9.44	3.71
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15' Above Floor, Add	0.74	
For Elevated Installation >15' To 20' Above Floor, Add	1.49	
For Elevated Installation >20' To 25' Above Floor, Add	1.86	
For Elevated Installation >25' To 30' Above Floor, Add	2.60	
For Elevated Installation >30' To 35' Above Floor, Add	2.97	
For Elevated Installation >35' To 40' Above Floor, Add	3.72	
For Elevated Installation >40' Above Floor, Add	4.09	
26 05 33 13-0566 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal	11.45	4.33
For Work In Restricted Working Space, Add	2.60	
For Elevated Installation >10' To 15' Above Floor, Add	0.87	
For Elevated Installation >15' To 20' Above Floor, Add	1.73	
For Elevated Installation >20' To 25' Above Floor, Add	2.17	
For Elevated Installation >25' To 30' Above Floor, Add	3.03	
For Elevated Installation >30' To 35' Above Floor, Add	3.47	
For Elevated Installation >35' To 40' Above Floor, Add	4.34	
For Elevated Installation >40' Above Floor, Add	4.77	
26 05 33 13-0567 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	14.71	5.57
For Work In Restricted Working Space, Add	3.34	
For Elevated Installation >10' To 15' Above Floor, Add	1.11	
For Elevated Installation >15' To 20' Above Floor, Add	2.23	
For Elevated Installation >20' To 25' Above Floor, Add	2.79	
For Elevated Installation >25' To 30' Above Floor, Add	3.90	
For Elevated Installation >30' To 35' Above Floor, Add	4.46	
For Elevated Installation >35' To 40' Above Floor, Add	5.57	
For Elevated Installation >40' Above Floor, Add	6.13	
26 05 33 13-0568 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	18.08	6.19
For Work In Restricted Working Space, Add	3.71	
For Elevated Installation >10' To 15' Above Floor, Add	1.24	
For Elevated Installation >15' To 20' Above Floor, Add	2.48	
For Elevated Installation >20' To 25' Above Floor, Add	3.10	
For Elevated Installation >25' To 30' Above Floor, Add	4.33	
For Elevated Installation >30' To 35' Above Floor, Add	4.95	
For Elevated Installation >35' To 40' Above Floor, Add	6.19	
For Elevated Installation >40' Above Floor, Add	6.81	
26 05 33 13-0569 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal	21.87	7.43
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	
26 05 33 13-0570 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	26.83	9.28
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
26 05 33 13-0571 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal	31.35	10.53
For Work In Restricted Working Space, Add	6.31	
For Elevated Installation >10' To 15' Above Floor, Add	2.10	
For Elevated Installation >15' To 20' Above Floor, Add	4.21	
For Elevated Installation >20' To 25' Above Floor, Add	5.26	
For Elevated Installation >25' To 30' Above Floor, Add	7.36	
For Elevated Installation >30' To 35' Above Floor, Add	8.42	
For Elevated Installation >35' To 40' Above Floor, Add	10.52	
For Elevated Installation >40' Above Floor, Add	11.57	
26 05 33 13-0572 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	38.04	11.76
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
26 05 33 13-0573 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal	44.63	12.99
For Work In Restricted Working Space, Add	7.80	
For Elevated Installation >10' To 15' Above Floor, Add	2.60	
For Elevated Installation >15' To 20' Above Floor, Add	5.20	
For Elevated Installation >20' To 25' Above Floor, Add	6.50	
For Elevated Installation >25' To 30' Above Floor, Add	9.10	
For Elevated Installation >30' To 35' Above Floor, Add	10.40	
For Elevated Installation >35' To 40' Above Floor, Add	13.00	
For Elevated Installation >40' Above Floor, Add	14.30	

26 05 33 13-0574 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0575 EA 1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	15.30	7.43
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0576 EA 3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	18.07	8.67
For Work In Restricted Working Space, Add	5.20	
For Elevated Installation >10' To 15' Above Floor, Add	1.73	
For Elevated Installation >15' To 20' Above Floor, Add	3.47	
For Elevated Installation >20' To 25' Above Floor, Add	4.33	
For Elevated Installation >25' To 30' Above Floor, Add	6.07	
For Elevated Installation >30' To 35' Above Floor, Add	6.93	
For Elevated Installation >35' To 40' Above Floor, Add	8.67	
For Elevated Installation >40' Above Floor, Add	9.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 05 33 13-0577 EA 1" Rigid Galvanized Steel (RGS) Chase Nipple.....	22.65	10.53
For Work In Restricted Working Space, Add	6.31	
For Elevated Installation >10' To 15' Above Floor, Add	2.10	
For Elevated Installation >15' To 20' Above Floor, Add	4.21	
For Elevated Installation >20' To 25' Above Floor, Add	5.26	
For Elevated Installation >25' To 30' Above Floor, Add	7.36	
For Elevated Installation >30' To 35' Above Floor, Add	8.42	
For Elevated Installation >35' To 40' Above Floor, Add	10.52	
For Elevated Installation >40' Above Floor, Add	11.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.31	
26 05 33 13-0578 EA 1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple	27.56	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0579 EA 1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple	34.55	15.47
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0580 EA 2" Rigid Galvanized Steel (RGS) Chase Nipple.....	42.99	18.57
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 05 33 13-0581 EA 2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple	54.45	21.66
For Work In Restricted Working Space, Add	13.00	
For Elevated Installation >10' To 15' Above Floor, Add	4.33	
For Elevated Installation >15' To 20' Above Floor, Add	8.67	
For Elevated Installation >20' To 25' Above Floor, Add	10.83	
For Elevated Installation >25' To 30' Above Floor, Add	15.17	
For Elevated Installation >30' To 35' Above Floor, Add	17.33	
For Elevated Installation >35' To 40' Above Floor, Add	21.67	
For Elevated Installation >40' Above Floor, Add	23.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 33 13-0582 EA 3" Rigid Galvanized Steel (RGS) Chase Nipple.....	60.93	24.76
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.86	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0583 EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	75.88	27.85
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.71	
26 05 33 13-0584 EA 4" Rigid Galvanized Steel (RGS) Chase Nipple.....	104.16	30.95
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33 13-0585 Rigid Galvanized Steel (RGS) Pulling Elbow (26 05 33 13-0060)		
26 05 33 13-0586 EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	29.96	11.14
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15' Above Floor, Add	2.23	
For Elevated Installation >15' To 20' Above Floor, Add	4.46	
For Elevated Installation >20' To 25' Above Floor, Add	5.57	
For Elevated Installation >25' To 30' Above Floor, Add	7.80	
For Elevated Installation >30' To 35' Above Floor, Add	8.92	
For Elevated Installation >35' To 40' Above Floor, Add	11.15	
For Elevated Installation >40' Above Floor, Add	12.26	
26 05 33 13-0587 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	34.80	12.99
For Work In Restricted Working Space, Add	7.80	
For Elevated Installation >10' To 15' Above Floor, Add	2.60	
For Elevated Installation >15' To 20' Above Floor, Add	5.20	
For Elevated Installation >20' To 25' Above Floor, Add	6.50	
For Elevated Installation >25' To 30' Above Floor, Add	9.10	
For Elevated Installation >30' To 35' Above Floor, Add	10.40	
For Elevated Installation >35' To 40' Above Floor, Add	13.00	
For Elevated Installation >40' Above Floor, Add	14.30	
26 05 33 13-0588 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	44.32	14.86
For Work In Restricted Working Space, Add	8.91	
For Elevated Installation >10' To 15' Above Floor, Add	2.97	
For Elevated Installation >15' To 20' Above Floor, Add	5.94	
For Elevated Installation >20' To 25' Above Floor, Add	7.43	
For Elevated Installation >25' To 30' Above Floor, Add	10.40	
For Elevated Installation >30' To 35' Above Floor, Add	11.88	
For Elevated Installation >35' To 40' Above Floor, Add	14.86	
For Elevated Installation >40' Above Floor, Add	16.34	
26 05 33 13-0589 EA 1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	56.81	18.57
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
26 05 33 13-0590 EA 1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	75.80	22.29
For Work In Restricted Working Space, Add	13.37	
For Elevated Installation >10' To 15' Above Floor, Add	4.46	
For Elevated Installation >15' To 20' Above Floor, Add	8.91	
For Elevated Installation >20' To 25' Above Floor, Add	11.14	
For Elevated Installation >25' To 30' Above Floor, Add	15.60	
For Elevated Installation >30' To 35' Above Floor, Add	17.83	
For Elevated Installation >35' To 40' Above Floor, Add	22.29	
For Elevated Installation >40' Above Floor, Add	24.51	
26 05 33 13-0591 EA 2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	101.43	26.00
For Work In Restricted Working Space, Add	15.60	
For Elevated Installation >10' To 15' Above Floor, Add	5.20	
For Elevated Installation >15' To 20' Above Floor, Add	10.40	
For Elevated Installation >20' To 25' Above Floor, Add	13.00	
For Elevated Installation >25' To 30' Above Floor, Add	18.20	
For Elevated Installation >30' To 35' Above Floor, Add	20.80	
For Elevated Installation >35' To 40' Above Floor, Add	26.00	
For Elevated Installation >40' Above Floor, Add	28.60	
26 05 33 13-0592 EA 2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	141.02	29.71
For Work In Restricted Working Space, Add	17.83	
For Elevated Installation >10' To 15' Above Floor, Add	5.94	
For Elevated Installation >15' To 20' Above Floor, Add	11.88	
For Elevated Installation >20' To 25' Above Floor, Add	14.86	
For Elevated Installation >25' To 30' Above Floor, Add	20.80	
For Elevated Installation >30' To 35' Above Floor, Add	23.77	
For Elevated Installation >35' To 40' Above Floor, Add	29.71	
For Elevated Installation >40' Above Floor, Add	32.68	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0593	EA		3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	247.14	37.14
			For Work In Restricted Working Space, Add	22.28	
			For Elevated Installation >10' To 15' Above Floor, Add	7.43	
			For Elevated Installation >15' To 20' Above Floor, Add	14.86	
			For Elevated Installation >20' To 25' Above Floor, Add	18.57	
			For Elevated Installation >25' To 30' Above Floor, Add	26.00	
			For Elevated Installation >30' To 35' Above Floor, Add	29.71	
			For Elevated Installation >35' To 40' Above Floor, Add	37.14	
			For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33 13-0594			Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0059)		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0595			Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0594)		
			Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-0596	LF		1/2" Electrical Metallic Tubing (EMT) Conduit.....	6.31	2.23
			For >250 To 500, Deduct	-0.04	
			For >500 To 1,000, Deduct	-0.33	
			For >1,000, Deduct	-0.49	
			For Installation In Metal Stud Wall, Add	0.56	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.39	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.84	
			For Work In Restricted Working Space, Add	1.67	
			For Elevated Installation >10' To 15' Above Floor, Add	0.56	
			For Elevated Installation >15' To 20' Above Floor, Add	1.11	
			For Elevated Installation >20' To 25' Above Floor, Add	1.39	
			For Elevated Installation >25' To 30' Above Floor, Add	1.95	
			For Elevated Installation >30' To 35' Above Floor, Add	2.23	
			For Elevated Installation >35' To 40' Above Floor, Add	2.79	
			For Elevated Installation >40' Above Floor, Add	3.06	
			For Factory Applied Color Coating, Add	0.22	
26 05 33 13-0597	LF		3/4" Electrical Metallic Tubing (EMT) Conduit.....	7.35	2.48
			For >250 To 500, Deduct	-0.06	
			For >500 To 1,000, Deduct	-0.40	
			For >1,000, Deduct	-0.58	
			For Installation In Metal Stud Wall, Add	0.62	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.55	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.93	
			For Work In Restricted Working Space, Add	1.86	
			For Elevated Installation >10' To 15' Above Floor, Add	0.62	
			For Elevated Installation >15' To 20' Above Floor, Add	1.24	
			For Elevated Installation >20' To 25' Above Floor, Add	1.55	
			For Elevated Installation >25' To 30' Above Floor, Add	2.17	
			For Elevated Installation >30' To 35' Above Floor, Add	2.48	
			For Elevated Installation >35' To 40' Above Floor, Add	3.10	
			For Elevated Installation >40' Above Floor, Add	3.40	
			For Factory Applied Color Coating, Add	0.35	
26 05 33 13-0598	LF		1" Electrical Metallic Tubing (EMT) Conduit.....	8.75	2.72
			For >250 To 500, Deduct	-0.10	
			For >500 To 1,000, Deduct	-0.49	
			For >1,000, Deduct	-0.70	
			For Installation In Metal Stud Wall, Add	0.68	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.70	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.02	
			For Work In Restricted Working Space, Add	2.04	
			For Elevated Installation >10' To 15' Above Floor, Add	0.68	
			For Elevated Installation >15' To 20' Above Floor, Add	1.36	
			For Elevated Installation >20' To 25' Above Floor, Add	1.70	
			For Elevated Installation >25' To 30' Above Floor, Add	2.38	
			For Elevated Installation >30' To 35' Above Floor, Add	2.72	
			For Elevated Installation >35' To 40' Above Floor, Add	3.41	
			For Elevated Installation >40' Above Floor, Add	3.75	
			For Factory Applied Color Coating, Add	0.58	
26 05 33 13-0599	LF		1-1/4" Electrical Metallic Tubing (EMT) Conduit	10.74	3.07
			For >250 To 500, Deduct	-0.15	
			For >500 To 1,000, Deduct	-0.61	
			For >1,000, Deduct	-0.88	
			For Installation In Metal Stud Wall, Add	0.77	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.92	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.15	
			For Work In Restricted Working Space, Add	2.30	
			For Elevated Installation >10' To 15' Above Floor, Add	0.77	
			For Elevated Installation >15' To 20' Above Floor, Add	1.54	
			For Elevated Installation >20' To 25' Above Floor, Add	1.92	
			For Elevated Installation >25' To 30' Above Floor, Add	2.69	
			For Elevated Installation >30' To 35' Above Floor, Add	3.07	
			For Elevated Installation >35' To 40' Above Floor, Add	3.84	
			For Elevated Installation >40' Above Floor, Add	4.22	
			For Factory Applied Color Coating, Add	0.92	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0600 LF 1-1/2" Electrical Metallic Tubing (EMT) Conduit.....	12.48	3.46
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.72	
For >1,000, Deduct	-1.03	
For Installation In Metal Stud Wall, Add	0.87	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.17	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.30	
For Work In Restricted Working Space, Add	2.60	
For Elevated Installation >10' To 15' Above Floor, Add	0.87	
For Elevated Installation >15' To 20' Above Floor, Add	1.73	
For Elevated Installation >20' To 25' Above Floor, Add	2.17	
For Elevated Installation >25' To 30' Above Floor, Add	3.03	
For Elevated Installation >30' To 35' Above Floor, Add	3.47	
For Elevated Installation >35' To 40' Above Floor, Add	4.34	
For Elevated Installation >40' Above Floor, Add	4.77	
For Factory Applied Color Coating, Add	1.14	
26 05 33 13-0601 LF 2" Electrical Metallic Tubing (EMT) Conduit.....	14.42	3.96
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.83	
For >1,000, Deduct	-1.19	
For Installation In Metal Stud Wall, Add	0.99	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.48	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.49	
For Work In Restricted Working Space, Add	2.97	
For Elevated Installation >10' To 15' Above Floor, Add	0.99	
For Elevated Installation >15' To 20' Above Floor, Add	1.98	
For Elevated Installation >20' To 25' Above Floor, Add	2.48	
For Elevated Installation >25' To 30' Above Floor, Add	3.47	
For Elevated Installation >30' To 35' Above Floor, Add	3.96	
For Elevated Installation >35' To 40' Above Floor, Add	4.95	
For Elevated Installation >40' Above Floor, Add	5.45	
For Factory Applied Color Coating, Add	1.36	
26 05 33 13-0602 LF 2-1/2" Electrical Metallic Tubing (EMT) Conduit.....	18.45	4.71
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-1.09	
For >1,000, Deduct	-1.55	
For Installation In Metal Stud Wall, Add	1.18	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.94	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.76	
For Work In Restricted Working Space, Add	3.53	
For Elevated Installation >10' To 15' Above Floor, Add	1.18	
For Elevated Installation >15' To 20' Above Floor, Add	2.35	
For Elevated Installation >20' To 25' Above Floor, Add	2.94	
For Elevated Installation >25' To 30' Above Floor, Add	4.12	
For Elevated Installation >30' To 35' Above Floor, Add	4.70	
For Elevated Installation >35' To 40' Above Floor, Add	5.88	
For Elevated Installation >40' Above Floor, Add	6.47	
For Factory Applied Color Coating, Add	2.01	
26 05 33 13-0603 LF 3" Electrical Metallic Tubing (EMT) Conduit.....	22.00	5.45
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-1.31	
For >1,000, Deduct	-1.86	
For Installation In Metal Stud Wall, Add	1.36	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.41	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.04	
For Work In Restricted Working Space, Add	4.09	
For Elevated Installation >10' To 15' Above Floor, Add	1.36	
For Elevated Installation >15' To 20' Above Floor, Add	2.72	
For Elevated Installation >20' To 25' Above Floor, Add	3.41	
For Elevated Installation >25' To 30' Above Floor, Add	4.77	
For Elevated Installation >30' To 35' Above Floor, Add	5.45	
For Elevated Installation >35' To 40' Above Floor, Add	6.81	
For Elevated Installation >40' Above Floor, Add	7.49	
For Factory Applied Color Coating, Add	2.51	
26 05 33 13-0604 LF 3-1/2" Electrical Metallic Tubing (EMT) Conduit.....	27.28	6.44
For >250 To 500, Deduct	-0.56	
For >500 To 1,000, Deduct	-1.64	
For >1,000, Deduct	-2.33	
For Installation In Metal Stud Wall, Add	1.61	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.02	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.41	
For Work In Restricted Working Space, Add	4.83	
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Factory Applied Color Coating, Add	3.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0605 LF 4" Electrical Metallic Tubing (EMT) Conduit.....	36.83	9.69
For >250 To 500, Deduct	-0.63	
For >500 To 1,000, Deduct	-2.16	
For >1,000, Deduct	-3.08	
For Installation In Metal Stud Wall, Add	2.42	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.06	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	3.63	
For Work In Restricted Working Space, Add	7.27	
For Elevated Installation >10' To 15' Above Floor, Add	2.42	
For Elevated Installation >15' To 20' Above Floor, Add	4.84	
For Elevated Installation >20' To 25' Above Floor, Add	6.06	
For Elevated Installation >25' To 30' Above Floor, Add	8.48	
For Elevated Installation >30' To 35' Above Floor, Add	9.69	
For Elevated Installation >35' To 40' Above Floor, Add	12.11	
For Elevated Installation >40' Above Floor, Add	13.32	
For Factory Applied Color Coating, Add	3.78	
26 05 33 13-0606 Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0594)		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0607 EA 1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	15.74	5.45
For Work In Restricted Working Space, Add	4.09	
For Elevated Installation >10' To 15' Above Floor, Add	1.36	
For Elevated Installation >15' To 20' Above Floor, Add	2.72	
For Elevated Installation >20' To 25' Above Floor, Add	3.41	
For Elevated Installation >25' To 30' Above Floor, Add	4.77	
For Elevated Installation >30' To 35' Above Floor, Add	5.45	
For Elevated Installation >35' To 40' Above Floor, Add	6.81	
For Elevated Installation >40' Above Floor, Add	7.49	
26 05 33 13-0608 EA 3/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	16.74	5.94
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	
26 05 33 13-0609 EA 1" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	20.29	6.93
For Work In Restricted Working Space, Add	5.20	
For Elevated Installation >10' To 15' Above Floor, Add	1.73	
For Elevated Installation >15' To 20' Above Floor, Add	3.47	
For Elevated Installation >20' To 25' Above Floor, Add	4.33	
For Elevated Installation >25' To 30' Above Floor, Add	6.07	
For Elevated Installation >30' To 35' Above Floor, Add	6.93	
For Elevated Installation >35' To 40' Above Floor, Add	8.67	
For Elevated Installation >40' Above Floor, Add	9.53	
26 05 33 13-0610 EA 1-1/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow	22.25	7.43
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
26 05 33 13-0611 EA 1-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow	26.42	8.91
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15' Above Floor, Add	2.23	
For Elevated Installation >15' To 20' Above Floor, Add	4.46	
For Elevated Installation >20' To 25' Above Floor, Add	5.57	
For Elevated Installation >25' To 30' Above Floor, Add	7.80	
For Elevated Installation >30' To 35' Above Floor, Add	8.92	
For Elevated Installation >35' To 40' Above Floor, Add	11.15	
For Elevated Installation >40' Above Floor, Add	12.26	
26 05 33 13-0612 EA 2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	34.59	11.39
For Work In Restricted Working Space, Add	8.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.85	
For Elevated Installation >15' To 20' Above Floor, Add	5.70	
For Elevated Installation >20' To 25' Above Floor, Add	7.12	
For Elevated Installation >25' To 30' Above Floor, Add	9.97	
For Elevated Installation >30' To 35' Above Floor, Add	11.39	
For Elevated Installation >35' To 40' Above Floor, Add	14.24	
For Elevated Installation >40' Above Floor, Add	15.66	
26 05 33 13-0613 EA 2-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow	45.69	12.87
For Work In Restricted Working Space, Add	9.66	
For Elevated Installation >10' To 15' Above Floor, Add	3.22	
For Elevated Installation >15' To 20' Above Floor, Add	6.44	
For Elevated Installation >20' To 25' Above Floor, Add	8.05	
For Elevated Installation >25' To 30' Above Floor, Add	11.27	
For Elevated Installation >30' To 35' Above Floor, Add	12.88	
For Elevated Installation >35' To 40' Above Floor, Add	16.10	
For Elevated Installation >40' Above Floor, Add	17.70	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0614 EA 3" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	57.70	14.36
For Work In Restricted Working Space, Add	10.77	
For Elevated Installation >10' To 15' Above Floor, Add	3.59	
For Elevated Installation >15' To 20' Above Floor, Add	7.18	
For Elevated Installation >20' To 25' Above Floor, Add	8.98	
For Elevated Installation >25' To 30' Above Floor, Add	12.57	
For Elevated Installation >30' To 35' Above Floor, Add	14.36	
For Elevated Installation >35' To 40' Above Floor, Add	17.95	
For Elevated Installation >40' Above Floor, Add	19.75	
26 05 33 13-0615 EA 3-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow	65.41	15.84
For Work In Restricted Working Space, Add	11.89	
For Elevated Installation >10' To 15' Above Floor, Add	3.96	
For Elevated Installation >15' To 20' Above Floor, Add	7.92	
For Elevated Installation >20' To 25' Above Floor, Add	9.91	
For Elevated Installation >25' To 30' Above Floor, Add	13.87	
For Elevated Installation >30' To 35' Above Floor, Add	15.85	
For Elevated Installation >35' To 40' Above Floor, Add	19.81	
For Elevated Installation >40' Above Floor, Add	21.79	
26 05 33 13-0616 EA 4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	141.01	42.38
For Work In Restricted Working Space, Add	31.79	
For Elevated Installation >10' To 15' Above Floor, Add	10.60	
For Elevated Installation >15' To 20' Above Floor, Add	21.19	
For Elevated Installation >20' To 25' Above Floor, Add	26.49	
For Elevated Installation >25' To 30' Above Floor, Add	37.09	
For Elevated Installation >30' To 35' Above Floor, Add	42.38	
For Elevated Installation >35' To 40' Above Floor, Add	52.98	
For Elevated Installation >40' Above Floor, Add	58.28	
26 05 33 13-0617 Electrical Metallic Tubing (EMT) 45 Degree Elbows (26 05 33 13-0594)		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0618 EA 1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	15.51	5.45
For Work In Restricted Working Space, Add	4.09	
For Elevated Installation >10' To 15' Above Floor, Add	1.36	
For Elevated Installation >15' To 20' Above Floor, Add	2.72	
For Elevated Installation >20' To 25' Above Floor, Add	3.41	
For Elevated Installation >25' To 30' Above Floor, Add	4.77	
For Elevated Installation >30' To 35' Above Floor, Add	5.45	
For Elevated Installation >35' To 40' Above Floor, Add	6.81	
For Elevated Installation >40' Above Floor, Add	7.49	
26 05 33 13-0619 EA 3/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	16.88	5.94
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	
26 05 33 13-0620 EA 1" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	20.59	6.93
For Work In Restricted Working Space, Add	5.20	
For Elevated Installation >10' To 15' Above Floor, Add	1.73	
For Elevated Installation >15' To 20' Above Floor, Add	3.47	
For Elevated Installation >20' To 25' Above Floor, Add	4.33	
For Elevated Installation >25' To 30' Above Floor, Add	6.07	
For Elevated Installation >30' To 35' Above Floor, Add	6.93	
For Elevated Installation >35' To 40' Above Floor, Add	8.67	
For Elevated Installation >40' Above Floor, Add	9.53	
26 05 33 13-0621 EA 1-1/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow	22.81	7.43
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
26 05 33 13-0622 EA 1-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow	27.14	8.91
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15' Above Floor, Add	2.23	
For Elevated Installation >15' To 20' Above Floor, Add	4.46	
For Elevated Installation >20' To 25' Above Floor, Add	5.57	
For Elevated Installation >25' To 30' Above Floor, Add	7.80	
For Elevated Installation >30' To 35' Above Floor, Add	8.92	
For Elevated Installation >35' To 40' Above Floor, Add	11.15	
For Elevated Installation >40' Above Floor, Add	12.26	
26 05 33 13-0623 EA 2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	34.36	11.39
For Work In Restricted Working Space, Add	8.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.85	
For Elevated Installation >15' To 20' Above Floor, Add	5.70	
For Elevated Installation >20' To 25' Above Floor, Add	7.12	
For Elevated Installation >25' To 30' Above Floor, Add	9.97	
For Elevated Installation >30' To 35' Above Floor, Add	11.39	
For Elevated Installation >35' To 40' Above Floor, Add	14.24	
For Elevated Installation >40' Above Floor, Add	15.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0624 EA 2-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow	47.76	12.87
For Work In Restricted Working Space, Add	9.66	
For Elevated Installation >10' To 15' Above Floor, Add	3.22	
For Elevated Installation >15' To 20' Above Floor, Add	6.44	
For Elevated Installation >20' To 25' Above Floor, Add	8.05	
For Elevated Installation >25' To 30' Above Floor, Add	11.27	
For Elevated Installation >30' To 35' Above Floor, Add	12.88	
For Elevated Installation >35' To 40' Above Floor, Add	16.10	
For Elevated Installation >40' Above Floor, Add	17.70	
26 05 33 13-0625 EA 3" Electrical Metallic Tubing (EMT) 45 Degree Elbow	59.34	14.36
For Work In Restricted Working Space, Add	10.77	
For Elevated Installation >10' To 15' Above Floor, Add	3.59	
For Elevated Installation >15' To 20' Above Floor, Add	7.18	
For Elevated Installation >20' To 25' Above Floor, Add	8.98	
For Elevated Installation >25' To 30' Above Floor, Add	12.57	
For Elevated Installation >30' To 35' Above Floor, Add	14.36	
For Elevated Installation >35' To 40' Above Floor, Add	17.95	
For Elevated Installation >40' Above Floor, Add	19.75	
26 05 33 13-0626 EA 3-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow	69.86	15.84
For Work In Restricted Working Space, Add	11.89	
For Elevated Installation >10' To 15' Above Floor, Add	3.96	
For Elevated Installation >15' To 20' Above Floor, Add	7.92	
For Elevated Installation >20' To 25' Above Floor, Add	9.91	
For Elevated Installation >25' To 30' Above Floor, Add	13.87	
For Elevated Installation >30' To 35' Above Floor, Add	15.85	
For Elevated Installation >35' To 40' Above Floor, Add	19.81	
For Elevated Installation >40' Above Floor, Add	21.79	
26 05 33 13-0627 EA 4" Electrical Metallic Tubing (EMT) 45 Degree Elbow	137.89	42.38
For Work In Restricted Working Space, Add	31.79	
For Elevated Installation >10' To 15' Above Floor, Add	10.60	
For Elevated Installation >15' To 20' Above Floor, Add	21.19	
For Elevated Installation >20' To 25' Above Floor, Add	26.49	
For Elevated Installation >25' To 30' Above Floor, Add	37.09	
For Elevated Installation >30' To 35' Above Floor, Add	42.38	
For Elevated Installation >35' To 40' Above Floor, Add	52.98	
For Elevated Installation >40' Above Floor, Add	58.28	
26 05 33 13-0628 Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0594)		
26 05 33 13-0629 EA 1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	6.43	2.97
For Work In Restricted Working Space, Add	1.86	
For Elevated Installation >10' To 15' Above Floor, Add	0.62	
For Elevated Installation >15' To 20' Above Floor, Add	1.24	
For Elevated Installation >20' To 25' Above Floor, Add	1.55	
For Elevated Installation >25' To 30' Above Floor, Add	2.17	
For Elevated Installation >30' To 35' Above Floor, Add	2.48	
For Elevated Installation >35' To 40' Above Floor, Add	3.10	
For Elevated Installation >40' Above Floor, Add	3.40	
26 05 33 13-0630 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling	7.79	2.97
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15' Above Floor, Add	0.74	
For Elevated Installation >15' To 20' Above Floor, Add	1.49	
For Elevated Installation >20' To 25' Above Floor, Add	1.86	
For Elevated Installation >25' To 30' Above Floor, Add	2.60	
For Elevated Installation >30' To 35' Above Floor, Add	2.97	
For Elevated Installation >35' To 40' Above Floor, Add	3.72	
For Elevated Installation >40' Above Floor, Add	4.09	
26 05 33 13-0631 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling	9.21	3.46
For Work In Restricted Working Space, Add	2.60	
For Elevated Installation >10' To 15' Above Floor, Add	0.87	
For Elevated Installation >15' To 20' Above Floor, Add	1.73	
For Elevated Installation >20' To 25' Above Floor, Add	2.17	
For Elevated Installation >25' To 30' Above Floor, Add	3.03	
For Elevated Installation >30' To 35' Above Floor, Add	3.46	
For Elevated Installation >35' To 40' Above Floor, Add	4.33	
For Elevated Installation >40' Above Floor, Add	4.76	
26 05 33 13-0632 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling	12.33	4.46
For Work In Restricted Working Space, Add	3.34	
For Elevated Installation >10' To 15' Above Floor, Add	1.11	
For Elevated Installation >15' To 20' Above Floor, Add	2.23	
For Elevated Installation >20' To 25' Above Floor, Add	2.79	
For Elevated Installation >25' To 30' Above Floor, Add	3.90	
For Elevated Installation >30' To 35' Above Floor, Add	4.46	
For Elevated Installation >35' To 40' Above Floor, Add	5.57	
For Elevated Installation >40' Above Floor, Add	6.13	
26 05 33 13-0633 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	15.20	5.45
For Work In Restricted Working Space, Add	4.09	
For Elevated Installation >10' To 15' Above Floor, Add	1.36	
For Elevated Installation >15' To 20' Above Floor, Add	2.73	
For Elevated Installation >20' To 25' Above Floor, Add	3.41	
For Elevated Installation >25' To 30' Above Floor, Add	4.77	
For Elevated Installation >30' To 35' Above Floor, Add	5.45	
For Elevated Installation >35' To 40' Above Floor, Add	6.82	
For Elevated Installation >40' Above Floor, Add	7.50	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0634 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	20.66	7.43
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.42	
For Elevated Installation >35' To 40' Above Floor, Add	9.28	
For Elevated Installation >40' Above Floor, Add	10.21	
26 05 33 13-0635 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	28.43	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
26 05 33 13-0636 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	36.65	11.39
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
26 05 33 13-0637 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	41.66	12.38
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
26 05 33 13-0638 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	121.73	35.12
For Work In Restricted Working Space, Add	34.10	
For Elevated Installation >10' To 15' Above Floor, Add	11.37	
For Elevated Installation >15' To 20' Above Floor, Add	22.74	
For Elevated Installation >20' To 25' Above Floor, Add	28.42	
For Elevated Installation >25' To 30' Above Floor, Add	39.79	
For Elevated Installation >30' To 35' Above Floor, Add	45.47	
For Elevated Installation >35' To 40' Above Floor, Add	56.84	
For Elevated Installation >40' Above Floor, Add	62.52	
26 05 33 13-0639 Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0594)		
26 05 33 13-0640 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling	8.03	2.97
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15' Above Floor, Add	0.74	
For Elevated Installation >15' To 20' Above Floor, Add	1.49	
For Elevated Installation >20' To 25' Above Floor, Add	1.86	
For Elevated Installation >25' To 30' Above Floor, Add	2.60	
For Elevated Installation >30' To 35' Above Floor, Add	2.97	
For Elevated Installation >35' To 40' Above Floor, Add	3.72	
For Elevated Installation >40' Above Floor, Add	4.09	
26 05 33 13-0641 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	9.33	3.46
For Work In Restricted Working Space, Add	2.60	
For Elevated Installation >10' To 15' Above Floor, Add	0.87	
For Elevated Installation >15' To 20' Above Floor, Add	1.73	
For Elevated Installation >20' To 25' Above Floor, Add	2.17	
For Elevated Installation >25' To 30' Above Floor, Add	3.03	
For Elevated Installation >30' To 35' Above Floor, Add	3.47	
For Elevated Installation >35' To 40' Above Floor, Add	4.34	
For Elevated Installation >40' Above Floor, Add	4.77	
26 05 33 13-0642 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	13.30	4.96
For Work In Restricted Working Space, Add	3.71	
For Elevated Installation >10' To 15' Above Floor, Add	1.24	
For Elevated Installation >15' To 20' Above Floor, Add	2.48	
For Elevated Installation >20' To 25' Above Floor, Add	3.10	
For Elevated Installation >25' To 30' Above Floor, Add	4.33	
For Elevated Installation >30' To 35' Above Floor, Add	4.95	
For Elevated Installation >35' To 40' Above Floor, Add	6.19	
For Elevated Installation >40' Above Floor, Add	6.81	
26 05 33 13-0643 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	16.79	5.94
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0644 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	20.04	6.93
For Work In Restricted Working Space, Add	5.20	
For Elevated Installation >10' To 15' Above Floor, Add	1.73	
For Elevated Installation >15' To 20' Above Floor, Add	3.47	
For Elevated Installation >20' To 25' Above Floor, Add	4.33	
For Elevated Installation >25' To 30' Above Floor, Add	6.07	
For Elevated Installation >30' To 35' Above Floor, Add	6.93	
For Elevated Installation >35' To 40' Above Floor, Add	8.67	
For Elevated Installation >40' Above Floor, Add	9.53	
26 05 33 13-0645 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	26.55	8.91
For Work In Restricted Working Space, Add	6.69	
For Elevated Installation >10' To 15' Above Floor, Add	2.23	
For Elevated Installation >15' To 20' Above Floor, Add	4.46	
For Elevated Installation >20' To 25' Above Floor, Add	5.57	
For Elevated Installation >25' To 30' Above Floor, Add	7.80	
For Elevated Installation >30' To 35' Above Floor, Add	8.92	
For Elevated Installation >35' To 40' Above Floor, Add	11.15	
For Elevated Installation >40' Above Floor, Add	12.26	
26 05 33 13-0646 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	40.85	11.88
For Work In Restricted Working Space, Add	8.91	
For Elevated Installation >10' To 15' Above Floor, Add	2.97	
For Elevated Installation >15' To 20' Above Floor, Add	5.94	
For Elevated Installation >20' To 25' Above Floor, Add	7.43	
For Elevated Installation >25' To 30' Above Floor, Add	10.40	
For Elevated Installation >30' To 35' Above Floor, Add	11.88	
For Elevated Installation >35' To 40' Above Floor, Add	14.86	
For Elevated Installation >40' Above Floor, Add	16.34	
26 05 33 13-0647 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling.....	47.33	13.87
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15' Above Floor, Add	3.47	
For Elevated Installation >15' To 20' Above Floor, Add	6.93	
For Elevated Installation >20' To 25' Above Floor, Add	8.67	
For Elevated Installation >25' To 30' Above Floor, Add	12.13	
For Elevated Installation >30' To 35' Above Floor, Add	13.87	
For Elevated Installation >35' To 40' Above Floor, Add	17.34	
For Elevated Installation >40' Above Floor, Add	19.07	
26 05 33 13-0648 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	59.17	17.33
For Work In Restricted Working Space, Add	13.00	
For Elevated Installation >10' To 15' Above Floor, Add	4.33	
For Elevated Installation >15' To 20' Above Floor, Add	8.67	
For Elevated Installation >20' To 25' Above Floor, Add	10.83	
For Elevated Installation >25' To 30' Above Floor, Add	15.17	
For Elevated Installation >30' To 35' Above Floor, Add	17.33	
For Elevated Installation >35' To 40' Above Floor, Add	21.67	
For Elevated Installation >40' Above Floor, Add	23.83	
26 05 33 13-0649 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling.....	75.91	22.29
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
26 05 33 13-0650 Electrical Metallic Tubing (EMT) Raintight Compression Couplings (26 05 33 13-0594)	8.90	2.97
26 05 33 13-0651 EA 1/2 Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	8.90	2.97
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15' Above Floor, Add	0.74	
For Elevated Installation >15' To 20' Above Floor, Add	1.49	
For Elevated Installation >20' To 25' Above Floor, Add	1.86	
For Elevated Installation >25' To 30' Above Floor, Add	2.60	
For Elevated Installation >30' To 35' Above Floor, Add	2.97	
For Elevated Installation >35' To 40' Above Floor, Add	3.72	
For Elevated Installation >40' Above Floor, Add	4.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.23	
26 05 33 13-0652 EA 3/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	10.28	3.46
For Work In Restricted Working Space, Add	2.60	
For Elevated Installation >10' To 15' Above Floor, Add	0.87	
For Elevated Installation >15' To 20' Above Floor, Add	1.73	
For Elevated Installation >20' To 25' Above Floor, Add	2.17	
For Elevated Installation >25' To 30' Above Floor, Add	3.03	
For Elevated Installation >30' To 35' Above Floor, Add	3.47	
For Elevated Installation >35' To 40' Above Floor, Add	4.34	
For Elevated Installation >40' Above Floor, Add	4.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	
26 05 33 13-0653 EA 1" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	15.11	4.96
For Work In Restricted Working Space, Add	3.71	
For Elevated Installation >10' To 15' Above Floor, Add	1.24	
For Elevated Installation >15' To 20' Above Floor, Add	2.48	
For Elevated Installation >20' To 25' Above Floor, Add	3.10	
For Elevated Installation >25' To 30' Above Floor, Add	4.33	
For Elevated Installation >30' To 35' Above Floor, Add	4.95	
For Elevated Installation >35' To 40' Above Floor, Add	6.19	
For Elevated Installation >40' Above Floor, Add	6.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0654 EA 1-1/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	18.98	5.94
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0655 EA 1-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	23.94	6.93
For Work In Restricted Working Space, Add	5.20	
For Elevated Installation >10' To 15' Above Floor, Add	1.73	
For Elevated Installation >15' To 20' Above Floor, Add	3.47	
For Elevated Installation >20' To 25' Above Floor, Add	4.33	
For Elevated Installation >25' To 30' Above Floor, Add	6.07	
For Elevated Installation >30' To 35' Above Floor, Add	6.93	
For Elevated Installation >35' To 40' Above Floor, Add	8.67	
For Elevated Installation >40' Above Floor, Add	9.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 05 33 13-0656 EA 2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	29.15	8.42
For Work In Restricted Working Space, Add	6.31	
For Elevated Installation >10' To 15' Above Floor, Add	2.10	
For Elevated Installation >15' To 20' Above Floor, Add	4.21	
For Elevated Installation >20' To 25' Above Floor, Add	5.26	
For Elevated Installation >25' To 30' Above Floor, Add	7.36	
For Elevated Installation >30' To 35' Above Floor, Add	8.42	
For Elevated Installation >35' To 40' Above Floor, Add	10.52	
For Elevated Installation >40' Above Floor, Add	11.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.31	
26 05 33 13-0657 EA 2-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	39.27	11.39
For Work In Restricted Working Space, Add	8.54	
For Elevated Installation >10' To 15' Above Floor, Add	2.85	
For Elevated Installation >15' To 20' Above Floor, Add	5.70	
For Elevated Installation >20' To 25' Above Floor, Add	7.12	
For Elevated Installation >25' To 30' Above Floor, Add	9.97	
For Elevated Installation >30' To 35' Above Floor, Add	11.39	
For Elevated Installation >35' To 40' Above Floor, Add	14.24	
For Elevated Installation >40' Above Floor, Add	15.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 05 33 13-0658 EA 3" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	49.33	13.87
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15' Above Floor, Add	3.47	
For Elevated Installation >15' To 20' Above Floor, Add	6.93	
For Elevated Installation >20' To 25' Above Floor, Add	8.67	
For Elevated Installation >25' To 30' Above Floor, Add	12.13	
For Elevated Installation >30' To 35' Above Floor, Add	13.87	
For Elevated Installation >35' To 40' Above Floor, Add	17.34	
For Elevated Installation >40' Above Floor, Add	19.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-0659 EA 3-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	64.54	17.33
For Work In Restricted Working Space, Add	13.00	
For Elevated Installation >10' To 15' Above Floor, Add	4.33	
For Elevated Installation >15' To 20' Above Floor, Add	8.67	
For Elevated Installation >20' To 25' Above Floor, Add	10.83	
For Elevated Installation >25' To 30' Above Floor, Add	15.17	
For Elevated Installation >30' To 35' Above Floor, Add	17.33	
For Elevated Installation >35' To 40' Above Floor, Add	21.67	
For Elevated Installation >40' Above Floor, Add	23.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 33 13-0660 EA 4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	79.42	22.29
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.71	

26 05 33 13-0661 Electrical Metallic Tubing (EMT) Insulated Bushing (26 05 33 13-0594)

26 05 33 13-0662 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	8.38	3.34
For Work In Restricted Working Space, Add	2.49	
For Elevated Installation >10' To 15' Above Floor, Add	0.83	
For Elevated Installation >15' To 20' Above Floor, Add	1.66	
For Elevated Installation >20' To 25' Above Floor, Add	2.08	
For Elevated Installation >25' To 30' Above Floor, Add	2.91	
For Elevated Installation >30' To 35' Above Floor, Add	3.32	
For Elevated Installation >35' To 40' Above Floor, Add	4.15	
For Elevated Installation >40' Above Floor, Add	4.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0663 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	9.17	3.59
For Work In Restricted Working Space, Add	2.71	
For Elevated Installation >10' To 15' Above Floor, Add	0.90	
For Elevated Installation >15' To 20' Above Floor, Add	1.81	
For Elevated Installation >20' To 25' Above Floor, Add	2.26	
For Elevated Installation >25' To 30' Above Floor, Add	3.16	
For Elevated Installation >30' To 35' Above Floor, Add	3.62	
For Elevated Installation >35' To 40' Above Floor, Add	4.52	
For Elevated Installation >40' Above Floor, Add	4.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.71	
26 05 33 13-0664 EA 1" Electrical Metallic Tubing (EMT) Insulated Bushing.....	11.43	4.46
For Work In Restricted Working Space, Add	3.31	
For Elevated Installation >10' To 15' Above Floor, Add	1.10	
For Elevated Installation >15' To 20' Above Floor, Add	2.20	
For Elevated Installation >20' To 25' Above Floor, Add	2.76	
For Elevated Installation >25' To 30' Above Floor, Add	3.86	
For Elevated Installation >30' To 35' Above Floor, Add	4.41	
For Elevated Installation >35' To 40' Above Floor, Add	5.51	
For Elevated Installation >40' Above Floor, Add	6.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.31	
26 05 33 13-0665 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Bushing	14.62	5.70
For Work In Restricted Working Space, Add	4.24	
For Elevated Installation >10' To 15' Above Floor, Add	1.41	
For Elevated Installation >15' To 20' Above Floor, Add	2.82	
For Elevated Installation >20' To 25' Above Floor, Add	3.53	
For Elevated Installation >25' To 30' Above Floor, Add	4.94	
For Elevated Installation >30' To 35' Above Floor, Add	5.65	
For Elevated Installation >35' To 40' Above Floor, Add	7.06	
For Elevated Installation >40' Above Floor, Add	7.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24	
26 05 33 13-0666 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	17.26	6.56
For Work In Restricted Working Space, Add	4.94	
For Elevated Installation >10' To 15' Above Floor, Add	1.65	
For Elevated Installation >15' To 20' Above Floor, Add	3.29	
For Elevated Installation >20' To 25' Above Floor, Add	4.12	
For Elevated Installation >25' To 30' Above Floor, Add	5.76	
For Elevated Installation >30' To 35' Above Floor, Add	6.59	
For Elevated Installation >35' To 40' Above Floor, Add	8.24	
For Elevated Installation >40' Above Floor, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	
26 05 33 13-0667 EA 2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	21.14	7.93
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15' Above Floor, Add	1.98	
For Elevated Installation >15' To 20' Above Floor, Add	3.96	
For Elevated Installation >20' To 25' Above Floor, Add	4.95	
For Elevated Installation >25' To 30' Above Floor, Add	6.93	
For Elevated Installation >30' To 35' Above Floor, Add	7.92	
For Elevated Installation >35' To 40' Above Floor, Add	9.91	
For Elevated Installation >40' Above Floor, Add	10.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-0668 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	30.34	11.02
For Work In Restricted Working Space, Add	8.24	
For Elevated Installation >10' To 15' Above Floor, Add	2.75	
For Elevated Installation >15' To 20' Above Floor, Add	5.50	
For Elevated Installation >20' To 25' Above Floor, Add	6.87	
For Elevated Installation >25' To 30' Above Floor, Add	9.62	
For Elevated Installation >30' To 35' Above Floor, Add	10.99	
For Elevated Installation >35' To 40' Above Floor, Add	13.74	
For Elevated Installation >40' Above Floor, Add	15.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 33 13-0669 EA 3" Electrical Metallic Tubing (EMT) Insulated Bushing.....	40.28	14.61
For Work In Restricted Working Space, Add	10.99	
For Elevated Installation >10' To 15' Above Floor, Add	3.66	
For Elevated Installation >15' To 20' Above Floor, Add	7.33	
For Elevated Installation >20' To 25' Above Floor, Add	9.16	
For Elevated Installation >25' To 30' Above Floor, Add	12.82	
For Elevated Installation >30' To 35' Above Floor, Add	14.66	
For Elevated Installation >35' To 40' Above Floor, Add	18.32	
For Elevated Installation >40' Above Floor, Add	20.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.99	
26 05 33 13-0670 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	51.66	18.81
For Work In Restricted Working Space, Add	14.15	
For Elevated Installation >10' To 15' Above Floor, Add	4.72	
For Elevated Installation >15' To 20' Above Floor, Add	9.43	
For Elevated Installation >20' To 25' Above Floor, Add	11.79	
For Elevated Installation >25' To 30' Above Floor, Add	16.51	
For Elevated Installation >30' To 35' Above Floor, Add	18.87	
For Elevated Installation >35' To 40' Above Floor, Add	23.59	
For Elevated Installation >40' Above Floor, Add	25.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.15	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0671 EA 4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	66.90	24.76
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33 13-0672 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw⁽²⁶⁾		
05 33 13-0594		
26 05 33 13-0673 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	6.39	2.48
For Work In Restricted Working Space, Add	1.86	
For Elevated Installation >10' To 15' Above Floor, Add	0.62	
For Elevated Installation >15' To 20' Above Floor, Add	1.24	
For Elevated Installation >20' To 25' Above Floor, Add	1.55	
For Elevated Installation >25' To 30' Above Floor, Add	2.17	
For Elevated Installation >30' To 35' Above Floor, Add	2.48	
For Elevated Installation >35' To 40' Above Floor, Add	3.10	
For Elevated Installation >40' Above Floor, Add	3.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.86	
26 05 33 13-0674 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	7.74	2.97
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15' Above Floor, Add	0.74	
For Elevated Installation >15' To 20' Above Floor, Add	1.49	
For Elevated Installation >20' To 25' Above Floor, Add	1.86	
For Elevated Installation >25' To 30' Above Floor, Add	2.60	
For Elevated Installation >30' To 35' Above Floor, Add	2.97	
For Elevated Installation >35' To 40' Above Floor, Add	3.72	
For Elevated Installation >40' Above Floor, Add	4.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.23	
26 05 33 13-0675 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	9.22	3.46
For Work In Restricted Working Space, Add	2.60	
For Elevated Installation >10' To 15' Above Floor, Add	0.87	
For Elevated Installation >15' To 20' Above Floor, Add	1.73	
For Elevated Installation >20' To 25' Above Floor, Add	2.17	
For Elevated Installation >25' To 30' Above Floor, Add	3.03	
For Elevated Installation >30' To 35' Above Floor, Add	3.47	
For Elevated Installation >35' To 40' Above Floor, Add	4.34	
For Elevated Installation >40' Above Floor, Add	4.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	
26 05 33 13-0676 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	13.38	4.96
For Work In Restricted Working Space, Add	3.71	
For Elevated Installation >10' To 15' Above Floor, Add	1.24	
For Elevated Installation >15' To 20' Above Floor, Add	2.48	
For Elevated Installation >20' To 25' Above Floor, Add	3.10	
For Elevated Installation >25' To 30' Above Floor, Add	4.33	
For Elevated Installation >30' To 35' Above Floor, Add	4.95	
For Elevated Installation >35' To 40' Above Floor, Add	6.19	
For Elevated Installation >40' Above Floor, Add	6.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 33 13-0677 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	16.32	5.94
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0678 EA 2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	20.73	7.43
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15' Above Floor, Add	1.86	
For Elevated Installation >15' To 20' Above Floor, Add	3.71	
For Elevated Installation >20' To 25' Above Floor, Add	4.64	
For Elevated Installation >25' To 30' Above Floor, Add	6.50	
For Elevated Installation >30' To 35' Above Floor, Add	7.43	
For Elevated Installation >35' To 40' Above Floor, Add	9.29	
For Elevated Installation >40' Above Floor, Add	10.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-0679 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	30.78	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0680	EA		3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	38.31	12.38
			For Work In Restricted Working Space, Add	9.29	
			For Elevated Installation >10' To 15' Above Floor, Add	3.10	
			For Elevated Installation >15' To 20' Above Floor, Add	6.19	
			For Elevated Installation >20' To 25' Above Floor, Add	7.74	
			For Elevated Installation >25' To 30' Above Floor, Add	10.83	
			For Elevated Installation >30' To 35' Above Floor, Add	12.38	
			For Elevated Installation >35' To 40' Above Floor, Add	15.48	
			For Elevated Installation >40' Above Floor, Add	17.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0681	EA		3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	45.41	14.86
			For Work In Restricted Working Space, Add	11.14	
			For Elevated Installation >10' To 15' Above Floor, Add	3.71	
			For Elevated Installation >15' To 20' Above Floor, Add	7.43	
			For Elevated Installation >20' To 25' Above Floor, Add	9.29	
			For Elevated Installation >25' To 30' Above Floor, Add	13.00	
			For Elevated Installation >30' To 35' Above Floor, Add	14.86	
			For Elevated Installation >35' To 40' Above Floor, Add	18.57	
			For Elevated Installation >40' Above Floor, Add	20.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 05 33 13-0682	EA		4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	52.91	17.33
			For Work In Restricted Working Space, Add	13.00	
			For Elevated Installation >10' To 15' Above Floor, Add	4.33	
			For Elevated Installation >15' To 20' Above Floor, Add	8.67	
			For Elevated Installation >20' To 25' Above Floor, Add	10.83	
			For Elevated Installation >25' To 30' Above Floor, Add	15.17	
			For Elevated Installation >30' To 35' Above Floor, Add	17.33	
			For Elevated Installation >35' To 40' Above Floor, Add	21.67	
			For Elevated Installation >40' Above Floor, Add	23.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 33 13-0683 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw (26 05 33 13-0594)					
26 05 33 13-0684	EA		1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	8.62	3.34
			For Work In Restricted Working Space, Add	2.49	
			For Elevated Installation >10' To 15' Above Floor, Add	0.83	
			For Elevated Installation >15' To 20' Above Floor, Add	1.66	
			For Elevated Installation >20' To 25' Above Floor, Add	2.08	
			For Elevated Installation >25' To 30' Above Floor, Add	2.91	
			For Elevated Installation >30' To 35' Above Floor, Add	3.32	
			For Elevated Installation >35' To 40' Above Floor, Add	4.15	
			For Elevated Installation >40' Above Floor, Add	4.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-0685	EA		3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	9.55	3.59
			For Work In Restricted Working Space, Add	2.71	
			For Elevated Installation >10' To 15' Above Floor, Add	0.90	
			For Elevated Installation >15' To 20' Above Floor, Add	1.81	
			For Elevated Installation >20' To 25' Above Floor, Add	2.26	
			For Elevated Installation >25' To 30' Above Floor, Add	3.16	
			For Elevated Installation >30' To 35' Above Floor, Add	3.62	
			For Elevated Installation >35' To 40' Above Floor, Add	4.52	
			For Elevated Installation >40' Above Floor, Add	4.97	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.71	
26 05 33 13-0686	EA		1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	11.94	4.46
			For Work In Restricted Working Space, Add	3.31	
			For Elevated Installation >10' To 15' Above Floor, Add	1.10	
			For Elevated Installation >15' To 20' Above Floor, Add	2.20	
			For Elevated Installation >20' To 25' Above Floor, Add	2.76	
			For Elevated Installation >25' To 30' Above Floor, Add	3.86	
			For Elevated Installation >30' To 35' Above Floor, Add	4.41	
			For Elevated Installation >35' To 40' Above Floor, Add	5.51	
			For Elevated Installation >40' Above Floor, Add	6.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.31	
26 05 33 13-0687	EA		1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw.....	15.64	5.70
			For Work In Restricted Working Space, Add	4.24	
			For Elevated Installation >10' To 15' Above Floor, Add	1.41	
			For Elevated Installation >15' To 20' Above Floor, Add	2.82	
			For Elevated Installation >20' To 25' Above Floor, Add	3.53	
			For Elevated Installation >25' To 30' Above Floor, Add	4.94	
			For Elevated Installation >30' To 35' Above Floor, Add	5.65	
			For Elevated Installation >35' To 40' Above Floor, Add	7.06	
			For Elevated Installation >40' Above Floor, Add	7.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24	
26 05 33 13-0688	EA		1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw.....	18.50	6.56
			For Work In Restricted Working Space, Add	4.94	
			For Elevated Installation >10' To 15' Above Floor, Add	1.65	
			For Elevated Installation >15' To 20' Above Floor, Add	3.29	
			For Elevated Installation >20' To 25' Above Floor, Add	4.12	
			For Elevated Installation >25' To 30' Above Floor, Add	5.76	
			For Elevated Installation >30' To 35' Above Floor, Add	6.59	
			For Elevated Installation >35' To 40' Above Floor, Add	8.24	
			For Elevated Installation >40' Above Floor, Add	9.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0689 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	22.59	7.93
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15' Above Floor, Add	1.98	
For Elevated Installation >15' To 20' Above Floor, Add	3.96	
For Elevated Installation >20' To 25' Above Floor, Add	4.95	
For Elevated Installation >25' To 30' Above Floor, Add	6.93	
For Elevated Installation >30' To 35' Above Floor, Add	7.92	
For Elevated Installation >35' To 40' Above Floor, Add	9.91	
For Elevated Installation >40' Above Floor, Add	10.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-0690 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	36.60	11.02
For Work In Restricted Working Space, Add	8.24	
For Elevated Installation >10' To 15' Above Floor, Add	2.75	
For Elevated Installation >15' To 20' Above Floor, Add	5.50	
For Elevated Installation >20' To 25' Above Floor, Add	6.87	
For Elevated Installation >25' To 30' Above Floor, Add	9.62	
For Elevated Installation >30' To 35' Above Floor, Add	10.99	
For Elevated Installation >35' To 40' Above Floor, Add	13.74	
For Elevated Installation >40' Above Floor, Add	15.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 33 13-0691 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	47.54	14.61
For Work In Restricted Working Space, Add	10.99	
For Elevated Installation >10' To 15' Above Floor, Add	3.66	
For Elevated Installation >15' To 20' Above Floor, Add	7.33	
For Elevated Installation >20' To 25' Above Floor, Add	9.16	
For Elevated Installation >25' To 30' Above Floor, Add	12.82	
For Elevated Installation >30' To 35' Above Floor, Add	14.66	
For Elevated Installation >35' To 40' Above Floor, Add	18.32	
For Elevated Installation >40' Above Floor, Add	20.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.99	
26 05 33 13-0692 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	60.80	18.81
For Work In Restricted Working Space, Add	14.15	
For Elevated Installation >10' To 15' Above Floor, Add	4.72	
For Elevated Installation >15' To 20' Above Floor, Add	9.43	
For Elevated Installation >20' To 25' Above Floor, Add	11.79	
For Elevated Installation >25' To 30' Above Floor, Add	16.51	
For Elevated Installation >30' To 35' Above Floor, Add	18.87	
For Elevated Installation >35' To 40' Above Floor, Add	23.59	
For Elevated Installation >40' Above Floor, Add	25.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.15	
26 05 33 13-0693 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	76.90	24.76
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33 13-0694 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors (26 05 33		
13-0594)		
26 05 33 13-0695 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	7.74	2.97
For Work In Restricted Working Space, Add	2.23	
For Elevated Installation >10' To 15' Above Floor, Add	0.74	
For Elevated Installation >15' To 20' Above Floor, Add	1.49	
For Elevated Installation >20' To 25' Above Floor, Add	1.86	
For Elevated Installation >25' To 30' Above Floor, Add	2.60	
For Elevated Installation >30' To 35' Above Floor, Add	2.97	
For Elevated Installation >35' To 40' Above Floor, Add	3.72	
For Elevated Installation >40' Above Floor, Add	4.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.23	
26 05 33 13-0696 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	9.14	3.46
For Work In Restricted Working Space, Add	2.60	
For Elevated Installation >10' To 15' Above Floor, Add	0.87	
For Elevated Installation >15' To 20' Above Floor, Add	1.73	
For Elevated Installation >20' To 25' Above Floor, Add	2.17	
For Elevated Installation >25' To 30' Above Floor, Add	3.03	
For Elevated Installation >30' To 35' Above Floor, Add	3.47	
For Elevated Installation >35' To 40' Above Floor, Add	4.34	
For Elevated Installation >40' Above Floor, Add	4.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	
26 05 33 13-0697 EA 1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	13.05	4.96
For Work In Restricted Working Space, Add	3.71	
For Elevated Installation >10' To 15' Above Floor, Add	1.24	
For Elevated Installation >15' To 20' Above Floor, Add	2.48	
For Elevated Installation >20' To 25' Above Floor, Add	3.10	
For Elevated Installation >25' To 30' Above Floor, Add	4.33	
For Elevated Installation >30' To 35' Above Floor, Add	4.95	
For Elevated Installation >35' To 40' Above Floor, Add	6.19	
For Elevated Installation >40' Above Floor, Add	6.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0698	EA	1-1/4"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	16.13	5.94
			For Work In Restricted Working Space, Add	4.46	
			For Elevated Installation >10' To 15' Above Floor, Add	1.49	
			For Elevated Installation >15' To 20' Above Floor, Add	2.97	
			For Elevated Installation >20' To 25' Above Floor, Add	3.72	
			For Elevated Installation >25' To 30' Above Floor, Add	5.20	
			For Elevated Installation >30' To 35' Above Floor, Add	5.94	
			For Elevated Installation >35' To 40' Above Floor, Add	7.43	
			For Elevated Installation >40' Above Floor, Add	8.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0699	EA	1-1/2"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	19.11	6.93
			For Work In Restricted Working Space, Add	5.20	
			For Elevated Installation >10' To 15' Above Floor, Add	1.73	
			For Elevated Installation >15' To 20' Above Floor, Add	3.47	
			For Elevated Installation >20' To 25' Above Floor, Add	4.33	
			For Elevated Installation >25' To 30' Above Floor, Add	6.07	
			For Elevated Installation >30' To 35' Above Floor, Add	6.93	
			For Elevated Installation >35' To 40' Above Floor, Add	8.67	
			For Elevated Installation >40' Above Floor, Add	9.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 05 33 13-0700	EA	2"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	24.88	8.91
			For Work In Restricted Working Space, Add	6.69	
			For Elevated Installation >10' To 15' Above Floor, Add	2.23	
			For Elevated Installation >15' To 20' Above Floor, Add	4.46	
			For Elevated Installation >20' To 25' Above Floor, Add	5.57	
			For Elevated Installation >25' To 30' Above Floor, Add	7.80	
			For Elevated Installation >30' To 35' Above Floor, Add	8.92	
			For Elevated Installation >35' To 40' Above Floor, Add	11.15	
			For Elevated Installation >40' Above Floor, Add	12.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.69	
26 05 33 13-0701	EA	2-1/2"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	37.50	11.88
			For Work In Restricted Working Space, Add	8.91	
			For Elevated Installation >10' To 15' Above Floor, Add	2.97	
			For Elevated Installation >15' To 20' Above Floor, Add	5.94	
			For Elevated Installation >20' To 25' Above Floor, Add	7.43	
			For Elevated Installation >25' To 30' Above Floor, Add	10.40	
			For Elevated Installation >30' To 35' Above Floor, Add	11.88	
			For Elevated Installation >35' To 40' Above Floor, Add	14.86	
			For Elevated Installation >40' Above Floor, Add	16.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.91	
26 05 33 13-0702	EA	3"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	47.33	14.86
			For Work In Restricted Working Space, Add	11.14	
			For Elevated Installation >10' To 15' Above Floor, Add	3.71	
			For Elevated Installation >15' To 20' Above Floor, Add	7.43	
			For Elevated Installation >20' To 25' Above Floor, Add	9.29	
			For Elevated Installation >25' To 30' Above Floor, Add	13.00	
			For Elevated Installation >30' To 35' Above Floor, Add	14.86	
			For Elevated Installation >35' To 40' Above Floor, Add	18.57	
			For Elevated Installation >40' Above Floor, Add	20.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 05 33 13-0703	EA	3-1/2"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	59.04	17.33
			For Work In Restricted Working Space, Add	13.00	
			For Elevated Installation >10' To 15' Above Floor, Add	4.33	
			For Elevated Installation >15' To 20' Above Floor, Add	8.67	
			For Elevated Installation >20' To 25' Above Floor, Add	10.83	
			For Elevated Installation >25' To 30' Above Floor, Add	15.17	
			For Elevated Installation >30' To 35' Above Floor, Add	17.33	
			For Elevated Installation >35' To 40' Above Floor, Add	21.67	
			For Elevated Installation >40' Above Floor, Add	23.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 33 13-0704	EA	4"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	66.56	19.81
			For Work In Restricted Working Space, Add	14.86	
			For Elevated Installation >10' To 15' Above Floor, Add	4.95	
			For Elevated Installation >15' To 20' Above Floor, Add	9.90	
			For Elevated Installation >20' To 25' Above Floor, Add	12.38	
			For Elevated Installation >25' To 30' Above Floor, Add	17.33	
			For Elevated Installation >30' To 35' Above Floor, Add	19.81	
			For Elevated Installation >35' To 40' Above Floor, Add	24.76	
			For Elevated Installation >40' Above Floor, Add	27.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.86	
26 05 33 13-0705 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors (26 05 33 13-0594)					
26 05 33 13-0706	EA	1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	8.83	3.34
			For Work In Restricted Working Space, Add	2.49	
			For Elevated Installation >10' To 15' Above Floor, Add	0.83	
			For Elevated Installation >15' To 20' Above Floor, Add	1.66	
			For Elevated Installation >20' To 25' Above Floor, Add	2.08	
			For Elevated Installation >25' To 30' Above Floor, Add	2.91	
			For Elevated Installation >30' To 35' Above Floor, Add	3.32	
			For Elevated Installation >35' To 40' Above Floor, Add	4.15	
			For Elevated Installation >40' Above Floor, Add	4.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0707 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	9.78	3.59
For Work In Restricted Working Space, Add	2.71	
For Elevated Installation >10' To 15' Above Floor, Add	0.90	
For Elevated Installation >15' To 20' Above Floor, Add	1.81	
For Elevated Installation >20' To 25' Above Floor, Add	2.26	
For Elevated Installation >25' To 30' Above Floor, Add	3.16	
For Elevated Installation >30' To 35' Above Floor, Add	3.62	
For Elevated Installation >35' To 40' Above Floor, Add	4.52	
For Elevated Installation >40' Above Floor, Add	4.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.71	
26 05 33 13-0708 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	12.12	4.46
For Work In Restricted Working Space, Add	3.31	
For Elevated Installation >10' To 15' Above Floor, Add	1.10	
For Elevated Installation >15' To 20' Above Floor, Add	2.20	
For Elevated Installation >20' To 25' Above Floor, Add	2.76	
For Elevated Installation >25' To 30' Above Floor, Add	3.86	
For Elevated Installation >30' To 35' Above Floor, Add	4.41	
For Elevated Installation >35' To 40' Above Floor, Add	5.51	
For Elevated Installation >40' Above Floor, Add	6.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.31	
26 05 33 13-0709 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	16.18	5.70
For Work In Restricted Working Space, Add	4.24	
For Elevated Installation >10' To 15' Above Floor, Add	1.41	
For Elevated Installation >15' To 20' Above Floor, Add	2.82	
For Elevated Installation >20' To 25' Above Floor, Add	3.53	
For Elevated Installation >25' To 30' Above Floor, Add	4.94	
For Elevated Installation >30' To 35' Above Floor, Add	5.65	
For Elevated Installation >35' To 40' Above Floor, Add	7.06	
For Elevated Installation >40' Above Floor, Add	7.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.24	
26 05 33 13-0710 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	19.39	6.56
For Work In Restricted Working Space, Add	4.94	
For Elevated Installation >10' To 15' Above Floor, Add	1.65	
For Elevated Installation >15' To 20' Above Floor, Add	3.29	
For Elevated Installation >20' To 25' Above Floor, Add	4.12	
For Elevated Installation >25' To 30' Above Floor, Add	5.76	
For Elevated Installation >30' To 35' Above Floor, Add	6.59	
For Elevated Installation >35' To 40' Above Floor, Add	8.24	
For Elevated Installation >40' Above Floor, Add	9.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.94	
26 05 33 13-0711 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	23.88	7.93
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15' Above Floor, Add	1.98	
For Elevated Installation >15' To 20' Above Floor, Add	3.96	
For Elevated Installation >20' To 25' Above Floor, Add	4.95	
For Elevated Installation >25' To 30' Above Floor, Add	6.93	
For Elevated Installation >30' To 35' Above Floor, Add	7.92	
For Elevated Installation >35' To 40' Above Floor, Add	9.91	
For Elevated Installation >40' Above Floor, Add	10.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-0712 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	41.30	11.02
For Work In Restricted Working Space, Add	8.24	
For Elevated Installation >10' To 15' Above Floor, Add	2.75	
For Elevated Installation >15' To 20' Above Floor, Add	5.50	
For Elevated Installation >20' To 25' Above Floor, Add	6.87	
For Elevated Installation >25' To 30' Above Floor, Add	9.62	
For Elevated Installation >30' To 35' Above Floor, Add	10.99	
For Elevated Installation >35' To 40' Above Floor, Add	13.74	
For Elevated Installation >40' Above Floor, Add	15.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.24	
26 05 33 13-0713 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	55.44	14.61
For Work In Restricted Working Space, Add	10.99	
For Elevated Installation >10' To 15' Above Floor, Add	3.66	
For Elevated Installation >15' To 20' Above Floor, Add	7.33	
For Elevated Installation >20' To 25' Above Floor, Add	9.16	
For Elevated Installation >25' To 30' Above Floor, Add	12.82	
For Elevated Installation >30' To 35' Above Floor, Add	14.66	
For Elevated Installation >35' To 40' Above Floor, Add	18.32	
For Elevated Installation >40' Above Floor, Add	20.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.99	
26 05 33 13-0714 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	74.64	18.81
For Work In Restricted Working Space, Add	14.15	
For Elevated Installation >10' To 15' Above Floor, Add	4.72	
For Elevated Installation >15' To 20' Above Floor, Add	9.43	
For Elevated Installation >20' To 25' Above Floor, Add	11.79	
For Elevated Installation >25' To 30' Above Floor, Add	16.51	
For Elevated Installation >30' To 35' Above Floor, Add	18.87	
For Elevated Installation >35' To 40' Above Floor, Add	23.59	
For Elevated Installation >40' Above Floor, Add	25.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0715 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.03 18.57 6.19 12.38 15.48 21.67 24.76 30.95 34.05 18.57	24.76
26 05 33 13-0716 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0594)		
Note: Excludes jumper.		
26 05 33 13-0717 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	62.99 12.36 4.12 8.24 10.30 14.42 16.48 20.60 22.66	16.47
26 05 33 13-0718 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	75.94 14.98 4.99 9.99 12.49 17.48 19.98 24.97 27.47	19.93
26 05 33 13-0719 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	93.47 18.73 6.24 12.49 15.61 21.85 24.97 31.22 34.34	25.01
26 05 33 13-0720 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	120.28 23.04 7.68 15.36 19.20 26.88 30.72 38.40 42.24	30.70
26 05 33 13-0721 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	148.67 27.02 9.01 18.01 22.52 31.52 36.03 45.04 49.54	36.02
26 05 33 13-0722 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	185.87 32.90 10.97 21.93 27.42 38.38 43.87 54.84 60.32	43.83
26 05 33 13-0723 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	344.83 42.26 14.09 28.17 35.22 49.30 56.34 70.43 77.47	56.33
26 05 33 13-0724 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	420.64 49.41 16.47 32.94 41.18 57.65 65.88 82.35 90.59	65.86

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0725 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	513.30	71.80
For Work In Restricted Working Space, Add	53.87	
For Elevated Installation >10' To 15' Above Floor, Add	17.96	
For Elevated Installation >15' To 20' Above Floor, Add	35.91	
For Elevated Installation >20' To 25' Above Floor, Add	44.89	
For Elevated Installation >25' To 30' Above Floor, Add	62.85	
For Elevated Installation >30' To 35' Above Floor, Add	71.82	
For Elevated Installation >35' To 40' Above Floor, Add	89.78	
For Elevated Installation >40' Above Floor, Add	98.76	
26 05 33 13-0726 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling	556.13	79.23
For Work In Restricted Working Space, Add	59.45	
For Elevated Installation >10' To 15' Above Floor, Add	19.82	
For Elevated Installation >15' To 20' Above Floor, Add	39.63	
For Elevated Installation >20' To 25' Above Floor, Add	49.54	
For Elevated Installation >25' To 30' Above Floor, Add	69.35	
For Elevated Installation >30' To 35' Above Floor, Add	79.26	
For Elevated Installation >35' To 40' Above Floor, Add	99.08	
For Elevated Installation >40' Above Floor, Add	108.98	
26 05 33 13-0727 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters		
(26 05 33 13-0594)		
26 05 33 13-0728 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	12.32	4.46
For Work In Restricted Working Space, Add	3.30	
For Elevated Installation >10' To 15' Above Floor, Add	1.10	
For Elevated Installation >15' To 20' Above Floor, Add	2.20	
For Elevated Installation >20' To 25' Above Floor, Add	2.75	
For Elevated Installation >25' To 30' Above Floor, Add	3.85	
For Elevated Installation >30' To 35' Above Floor, Add	4.40	
For Elevated Installation >35' To 40' Above Floor, Add	5.50	
For Elevated Installation >40' Above Floor, Add	6.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-0729 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	13.03	4.46
For Work In Restricted Working Space, Add	3.30	
For Elevated Installation >10' To 15' Above Floor, Add	1.10	
For Elevated Installation >15' To 20' Above Floor, Add	2.20	
For Elevated Installation >20' To 25' Above Floor, Add	2.75	
For Elevated Installation >25' To 30' Above Floor, Add	3.85	
For Elevated Installation >30' To 35' Above Floor, Add	4.40	
For Elevated Installation >35' To 40' Above Floor, Add	5.50	
For Elevated Installation >40' Above Floor, Add	6.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-0730 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	14.54	4.83
For Work In Restricted Working Space, Add	3.66	
For Elevated Installation >10' To 15' Above Floor, Add	1.22	
For Elevated Installation >15' To 20' Above Floor, Add	2.44	
For Elevated Installation >20' To 25' Above Floor, Add	3.05	
For Elevated Installation >25' To 30' Above Floor, Add	4.27	
For Elevated Installation >30' To 35' Above Floor, Add	4.88	
For Elevated Installation >35' To 40' Above Floor, Add	6.11	
For Elevated Installation >40' Above Floor, Add	6.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.66	
26 05 33 13-0731 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	16.88	5.57
For Work In Restricted Working Space, Add	4.17	
For Elevated Installation >10' To 15' Above Floor, Add	1.39	
For Elevated Installation >15' To 20' Above Floor, Add	2.78	
For Elevated Installation >20' To 25' Above Floor, Add	3.48	
For Elevated Installation >25' To 30' Above Floor, Add	4.87	
For Elevated Installation >30' To 35' Above Floor, Add	5.56	
For Elevated Installation >35' To 40' Above Floor, Add	6.95	
For Elevated Installation >40' Above Floor, Add	7.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.17	
26 05 33 13-0732 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	23.57	6.68
For Work In Restricted Working Space, Add	5.04	
For Elevated Installation >10' To 15' Above Floor, Add	1.68	
For Elevated Installation >15' To 20' Above Floor, Add	3.36	
For Elevated Installation >20' To 25' Above Floor, Add	4.20	
For Elevated Installation >25' To 30' Above Floor, Add	5.88	
For Elevated Installation >30' To 35' Above Floor, Add	6.72	
For Elevated Installation >35' To 40' Above Floor, Add	8.41	
For Elevated Installation >40' Above Floor, Add	9.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.04	
26 05 33 13-0733 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	28.63	7.68
For Work In Restricted Working Space, Add	5.77	
For Elevated Installation >10' To 15' Above Floor, Add	1.92	
For Elevated Installation >15' To 20' Above Floor, Add	3.84	
For Elevated Installation >20' To 25' Above Floor, Add	4.81	
For Elevated Installation >25' To 30' Above Floor, Add	6.73	
For Elevated Installation >30' To 35' Above Floor, Add	7.69	
For Elevated Installation >35' To 40' Above Floor, Add	9.61	
For Elevated Installation >40' Above Floor, Add	10.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0734	EA		2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	37.14	9.65
			For Work In Restricted Working Space, Add	7.20	
			For Elevated Installation >10' To 15' Above Floor, Add	2.40	
			For Elevated Installation >15' To 20' Above Floor, Add	4.80	
			For Elevated Installation >20' To 25' Above Floor, Add	6.00	
			For Elevated Installation >25' To 30' Above Floor, Add	8.40	
			For Elevated Installation >30' To 35' Above Floor, Add	9.60	
			For Elevated Installation >35' To 40' Above Floor, Add	12.01	
			For Elevated Installation >40' Above Floor, Add	13.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.20	
26 05 33 13-0735			Electrical Metallic Tubing (EMT) Pulling Elbows (26 05 33 13-0594)		
26 05 33 13-0736	EA		1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	25.71	11.14
			For Work In Restricted Working Space, Add	6.69	
			For Elevated Installation >15' To 20' Above Floor, Add	4.46	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.69	
26 05 33 13-0737	EA		3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	29.96	12.99
			For Work In Restricted Working Space, Add	7.80	
			For Elevated Installation >15' To 20' Above Floor, Add	5.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.80	
26 05 33 13-0738	EA		1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	36.79	14.86
			For Work In Restricted Working Space, Add	8.91	
			For Elevated Installation >15' To 20' Above Floor, Add	5.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.91	
26 05 33 13-0739	EA		1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	46.88	18.57
			For Work In Restricted Working Space, Add	11.14	
			For Elevated Installation >15' To 20' Above Floor, Add	7.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.14	
26 05 33 13-0740			Intermediate Metal Conduit (IMC) (26 05 33 13-0059)		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0741			Intermediate Metal Conduit (IMC) Conduit (26 05 33 13-0740)		
			Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-0742	LF		1/2" Intermediate Metal Conduit (IMC) Conduit	8.73	2.48
			For >250 To 500, Deduct	-0.11	
			For >500 To 1,000, Deduct	-0.17	
			For >1,000, Deduct	-0.23	
			For Installation In Metal Stud Wall, Add	0.64	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.61	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.97	
			For Work In Restricted Working Space, Add	1.93	
			For Elevated Installation >10' To 15' Above Floor, Add	0.64	
			For Elevated Installation >15' To 20' Above Floor, Add	1.29	
			For Elevated Installation >20' To 25' Above Floor, Add	1.61	
			For Elevated Installation >25' To 30' Above Floor, Add	2.25	
			For Elevated Installation >30' To 35' Above Floor, Add	2.58	
			For Elevated Installation >35' To 40' Above Floor, Add	3.22	
			For Elevated Installation >40' Above Floor, Add	3.54	
26 05 33 13-0743	LF		3/4" Intermediate Metal Conduit (IMC) Conduit	10.41	2.72
			For >250 To 500, Deduct	-0.14	
			For >500 To 1,000, Deduct	-0.20	
			For >1,000, Deduct	-0.27	
			For Installation In Metal Stud Wall, Add	0.77	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.92	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.15	
			For Work In Restricted Working Space, Add	2.30	
			For Elevated Installation >10' To 15' Above Floor, Add	0.77	
			For Elevated Installation >15' To 20' Above Floor, Add	1.54	
			For Elevated Installation >20' To 25' Above Floor, Add	1.92	
			For Elevated Installation >25' To 30' Above Floor, Add	2.69	
			For Elevated Installation >30' To 35' Above Floor, Add	3.07	
			For Elevated Installation >35' To 40' Above Floor, Add	3.84	
			For Elevated Installation >40' Above Floor, Add	4.22	
26 05 33 13-0744	LF		1" Intermediate Metal Conduit (IMC) Conduit	13.86	2.97
			For >250 To 500, Deduct	-0.21	
			For >500 To 1,000, Deduct	-0.32	
			For >1,000, Deduct	-0.42	
			For Installation In Metal Stud Wall, Add	0.97	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.41	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.45	
			For Work In Restricted Working Space, Add	2.90	
			For Elevated Installation >10' To 15' Above Floor, Add	0.97	
			For Elevated Installation >15' To 20' Above Floor, Add	1.93	
			For Elevated Installation >20' To 25' Above Floor, Add	2.41	
			For Elevated Installation >25' To 30' Above Floor, Add	3.38	
			For Elevated Installation >30' To 35' Above Floor, Add	3.86	
			For Elevated Installation >35' To 40' Above Floor, Add	4.83	
			For Elevated Installation >40' Above Floor, Add	5.31	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0745 LF 1-1/4" Intermediate Metal Conduit (IMC) Conduit	15.99	5.94
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.40	
For >1,000, Deduct	-0.53	
For Installation In Metal Stud Wall, Add	1.07	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.66	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.60	
For Work In Restricted Working Space, Add	3.20	
For Elevated Installation >10' To 15' Above Floor, Add	1.07	
For Elevated Installation >15' To 20' Above Floor, Add	2.13	
For Elevated Installation >20' To 25' Above Floor, Add	2.66	
For Elevated Installation >25' To 30' Above Floor, Add	3.73	
For Elevated Installation >30' To 35' Above Floor, Add	4.26	
For Elevated Installation >35' To 40' Above Floor, Add	5.33	
For Elevated Installation >40' Above Floor, Add	5.86	
26 05 33 13-0746 LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit	17.94	3.96
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.47	
For >1,000, Deduct	-0.63	
For Installation In Metal Stud Wall, Add	1.16	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.91	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.75	
For Work In Restricted Working Space, Add	3.49	
For Elevated Installation >10' To 15' Above Floor, Add	1.16	
For Elevated Installation >15' To 20' Above Floor, Add	2.33	
For Elevated Installation >20' To 25' Above Floor, Add	2.91	
For Elevated Installation >25' To 30' Above Floor, Add	4.07	
For Elevated Installation >30' To 35' Above Floor, Add	4.66	
For Elevated Installation >35' To 40' Above Floor, Add	5.82	
For Elevated Installation >40' Above Floor, Add	6.40	
26 05 33 13-0747 LF 2" Intermediate Metal Conduit (IMC) Conduit	22.66	4.46
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.64	
For >1,000, Deduct	-0.85	
For Installation In Metal Stud Wall, Add	1.41	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.53	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.12	
For Work In Restricted Working Space, Add	4.24	
For Elevated Installation >10' To 15' Above Floor, Add	1.41	
For Elevated Installation >15' To 20' Above Floor, Add	2.82	
For Elevated Installation >20' To 25' Above Floor, Add	3.53	
For Elevated Installation >25' To 30' Above Floor, Add	4.94	
For Elevated Installation >30' To 35' Above Floor, Add	5.65	
For Elevated Installation >35' To 40' Above Floor, Add	7.06	
For Elevated Installation >40' Above Floor, Add	7.77	
26 05 33 13-0748 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit	37.63	5.94
For >250 To 500, Deduct	-0.95	
For >500 To 1,000, Deduct	-1.42	
For >1,000, Deduct	-1.89	
For Installation In Metal Stud Wall, Add	1.87	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.67	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.80	
For Work In Restricted Working Space, Add	5.61	
For Elevated Installation >10' To 15' Above Floor, Add	1.87	
For Elevated Installation >15' To 20' Above Floor, Add	3.74	
For Elevated Installation >20' To 25' Above Floor, Add	4.67	
For Elevated Installation >25' To 30' Above Floor, Add	6.54	
For Elevated Installation >30' To 35' Above Floor, Add	7.48	
For Elevated Installation >35' To 40' Above Floor, Add	9.35	
For Elevated Installation >40' Above Floor, Add	10.28	
26 05 33 13-0749 LF 3" Intermediate Metal Conduit (IMC) Conduit	48.07	7.43
For >250 To 500, Deduct	-1.17	
For >500 To 1,000, Deduct	-1.75	
For >1,000, Deduct	-2.33	
For Installation In Metal Stud Wall, Add	2.48	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.19	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	3.71	
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0750 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit	55.35	8.91
For >250 To 500, Deduct	-1.35	
For >500 To 1,000, Deduct	-2.03	
For >1,000, Deduct	-2.70	
For Installation In Metal Stud Wall, Add	2.84	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.09	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	4.25	
For Work In Restricted Working Space, Add	8.51	
For Elevated Installation >10' To 15' Above Floor, Add	2.84	
For Elevated Installation >15' To 20' Above Floor, Add	5.67	
For Elevated Installation >20' To 25' Above Floor, Add	7.09	
For Elevated Installation >25' To 30' Above Floor, Add	9.92	
For Elevated Installation >30' To 35' Above Floor, Add	11.34	
For Elevated Installation >35' To 40' Above Floor, Add	14.18	
For Elevated Installation >40' Above Floor, Add	15.59	
26 05 33 13-0751 LF 4" Intermediate Metal Conduit (IMC) Conduit	64.82	10.40
For >250 To 500, Deduct	-1.59	
For >500 To 1,000, Deduct	-2.38	
For >1,000, Deduct	-3.18	
For Installation In Metal Stud Wall, Add	3.31	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.26	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	4.96	
For Work In Restricted Working Space, Add	9.92	
For Elevated Installation >10' To 15' Above Floor, Add	3.31	
For Elevated Installation >15' To 20' Above Floor, Add	6.61	
For Elevated Installation >20' To 25' Above Floor, Add	8.26	
For Elevated Installation >25' To 30' Above Floor, Add	11.57	
For Elevated Installation >30' To 35' Above Floor, Add	13.22	
For Elevated Installation >35' To 40' Above Floor, Add	16.53	
For Elevated Installation >40' Above Floor, Add	18.18	
26 05 33 13-0752 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0740)		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0753 EA 1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	42.80	12.25
For Work In Restricted Working Space, Add	9.22	
For Elevated Installation >10' To 15' Above Floor, Add	3.07	
For Elevated Installation >15' To 20' Above Floor, Add	6.15	
For Elevated Installation >20' To 25' Above Floor, Add	7.68	
For Elevated Installation >25' To 30' Above Floor, Add	10.76	
For Elevated Installation >30' To 35' Above Floor, Add	12.29	
For Elevated Installation >35' To 40' Above Floor, Add	15.37	
For Elevated Installation >40' Above Floor, Add	16.90	
26 05 33 13-0754 EA 3/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	51.76	15.23
For Work In Restricted Working Space, Add	11.47	
For Elevated Installation >10' To 15' Above Floor, Add	3.82	
For Elevated Installation >15' To 20' Above Floor, Add	7.64	
For Elevated Installation >20' To 25' Above Floor, Add	9.56	
For Elevated Installation >25' To 30' Above Floor, Add	13.38	
For Elevated Installation >30' To 35' Above Floor, Add	15.29	
For Elevated Installation >35' To 40' Above Floor, Add	19.11	
For Elevated Installation >40' Above Floor, Add	21.02	
26 05 33 13-0755 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	65.86	18.69
For Work In Restricted Working Space, Add	13.98	
For Elevated Installation >10' To 15' Above Floor, Add	4.66	
For Elevated Installation >15' To 20' Above Floor, Add	9.32	
For Elevated Installation >20' To 25' Above Floor, Add	11.65	
For Elevated Installation >25' To 30' Above Floor, Add	16.31	
For Elevated Installation >30' To 35' Above Floor, Add	18.64	
For Elevated Installation >35' To 40' Above Floor, Add	23.31	
For Elevated Installation >40' Above Floor, Add	25.64	
26 05 33 13-0756 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	81.10	21.66
For Work In Restricted Working Space, Add	16.23	
For Elevated Installation >10' To 15' Above Floor, Add	5.41	
For Elevated Installation >15' To 20' Above Floor, Add	10.82	
For Elevated Installation >20' To 25' Above Floor, Add	13.53	
For Elevated Installation >25' To 30' Above Floor, Add	18.94	
For Elevated Installation >30' To 35' Above Floor, Add	21.64	
For Elevated Installation >35' To 40' Above Floor, Add	27.06	
For Elevated Installation >40' Above Floor, Add	29.76	
26 05 33 13-0757 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	96.24	24.88
For Work In Restricted Working Space, Add	18.63	
For Elevated Installation >10' To 15' Above Floor, Add	6.21	
For Elevated Installation >15' To 20' Above Floor, Add	12.42	
For Elevated Installation >20' To 25' Above Floor, Add	15.53	
For Elevated Installation >25' To 30' Above Floor, Add	21.74	
For Elevated Installation >30' To 35' Above Floor, Add	24.84	
For Elevated Installation >35' To 40' Above Floor, Add	31.06	
For Elevated Installation >40' Above Floor, Add	34.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0758 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	117.46 20.50 6.83 13.66 17.08 23.91 27.33 34.16 37.58	27.36
26 05 33 13-0759 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	168.85 25.63 8.54 17.08 21.36 29.90 34.17 42.71 46.98	34.17
26 05 33 13-0760 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	244.08 34.91 11.64 23.27 29.09 40.73 46.54 58.18 64.00	46.55
26 05 33 13-0761 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	356.73 39.38 13.13 26.25 32.81 45.94 52.50 65.63 72.19	52.49
26 05 33 13-0762 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	432.36 51.24 17.08 34.16 42.70 59.78 68.32 85.41 93.95	68.33
26 05 33 13-0763 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut (26 05 33 13-0740)		
26 05 33 13-0764 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.92 4.83	6.44
26 05 33 13-0765 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.00 5.57	0.74
26 05 33 13-0766 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.90 7.06	9.41
26 05 33 13-0767 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.66 8.54	11.39
26 05 33 13-0768 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.47 9.29	12.38
26 05 33 13-0769 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.84 11.51	15.35
26 05 33 13-0770 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.16 18.57	24.76
26 05 33 13-0771 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.87 25.26	33.67
26 05 33 13-0772 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.67 30.08	40.11
26 05 33 13-0773 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.62 34.91	46.55
26 05 33 13-0774 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0740) Note: 3-Piece coupling.		
26 05 33 13-0775 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.05 14.87 4.96 9.92 12.40 17.35 19.83 24.79 27.27 14.87	19.81



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0776	EA	3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	63.67	22.16
		For Work In Restricted Working Space, Add	16.60	
		For Elevated Installation >10' To 15' Above Floor, Add	5.53	
		For Elevated Installation >15' To 20' Above Floor, Add	11.07	
		For Elevated Installation >20' To 25' Above Floor, Add	13.83	
		For Elevated Installation >25' To 30' Above Floor, Add	19.37	
		For Elevated Installation >30' To 35' Above Floor, Add	22.13	
		For Elevated Installation >35' To 40' Above Floor, Add	27.67	
		For Elevated Installation >40' Above Floor, Add	30.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.60	
26 05 33 13-0777	EA	1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	77.71	24.63
		For Work In Restricted Working Space, Add	18.49	
		For Elevated Installation >10' To 15' Above Floor, Add	6.16	
		For Elevated Installation >15' To 20' Above Floor, Add	12.33	
		For Elevated Installation >20' To 25' Above Floor, Add	15.41	
		For Elevated Installation >25' To 30' Above Floor, Add	21.57	
		For Elevated Installation >30' To 35' Above Floor, Add	24.66	
		For Elevated Installation >35' To 40' Above Floor, Add	30.82	
		For Elevated Installation >40' Above Floor, Add	33.90	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 05 33 13-0778	EA	1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	97.02	26.99
		For Work In Restricted Working Space, Add	20.24	
		For Elevated Installation >10' To 15' Above Floor, Add	6.75	
		For Elevated Installation >15' To 20' Above Floor, Add	13.49	
		For Elevated Installation >20' To 25' Above Floor, Add	16.86	
		For Elevated Installation >25' To 30' Above Floor, Add	23.61	
		For Elevated Installation >30' To 35' Above Floor, Add	26.98	
		For Elevated Installation >35' To 40' Above Floor, Add	33.73	
		For Elevated Installation >40' Above Floor, Add	37.10	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.24	
26 05 33 13-0779	EA	1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	110.90	29.46
		For Work In Restricted Working Space, Add	22.14	
		For Elevated Installation >10' To 15' Above Floor, Add	7.38	
		For Elevated Installation >15' To 20' Above Floor, Add	14.76	
		For Elevated Installation >20' To 25' Above Floor, Add	18.45	
		For Elevated Installation >25' To 30' Above Floor, Add	25.83	
		For Elevated Installation >30' To 35' Above Floor, Add	29.52	
		For Elevated Installation >35' To 40' Above Floor, Add	36.90	
		For Elevated Installation >40' Above Floor, Add	40.58	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.14	
26 05 33 13-0780	EA	2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	154.13	31.94
		For Work In Restricted Working Space, Add	23.97	
		For Elevated Installation >10' To 15' Above Floor, Add	7.99	
		For Elevated Installation >15' To 20' Above Floor, Add	15.98	
		For Elevated Installation >20' To 25' Above Floor, Add	19.98	
		For Elevated Installation >25' To 30' Above Floor, Add	27.97	
		For Elevated Installation >30' To 35' Above Floor, Add	31.96	
		For Elevated Installation >35' To 40' Above Floor, Add	39.96	
		For Elevated Installation >40' Above Floor, Add	43.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.97	
26 05 33 13-0781	EA	2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	257.80	39.62
		For Work In Restricted Working Space, Add	29.71	
		For Elevated Installation >10' To 15' Above Floor, Add	9.90	
		For Elevated Installation >15' To 20' Above Floor, Add	19.81	
		For Elevated Installation >20' To 25' Above Floor, Add	24.76	
		For Elevated Installation >25' To 30' Above Floor, Add	34.66	
		For Elevated Installation >30' To 35' Above Floor, Add	39.62	
		For Elevated Installation >35' To 40' Above Floor, Add	49.52	
		For Elevated Installation >40' Above Floor, Add	54.47	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 05 33 13-0782	EA	3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	365.91	49.52
		For Work In Restricted Working Space, Add	37.14	
		For Elevated Installation >10' To 15' Above Floor, Add	12.38	
		For Elevated Installation >15' To 20' Above Floor, Add	24.76	
		For Elevated Installation >20' To 25' Above Floor, Add	30.95	
		For Elevated Installation >25' To 30' Above Floor, Add	43.33	
		For Elevated Installation >30' To 35' Above Floor, Add	49.52	
		For Elevated Installation >35' To 40' Above Floor, Add	61.90	
		For Elevated Installation >40' Above Floor, Add	68.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.14	
26 05 33 13-0783	EA	3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	537.57	59.42
		For Work In Restricted Working Space, Add	44.58	
		For Elevated Installation >10' To 15' Above Floor, Add	14.86	
		For Elevated Installation >15' To 20' Above Floor, Add	29.72	
		For Elevated Installation >20' To 25' Above Floor, Add	37.15	
		For Elevated Installation >25' To 30' Above Floor, Add	52.01	
		For Elevated Installation >30' To 35' Above Floor, Add	59.44	
		For Elevated Installation >35' To 40' Above Floor, Add	74.31	
		For Elevated Installation >40' Above Floor, Add	81.74	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.58	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0784 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	621.32	64.38
For Work In Restricted Working Space, Add	48.28	
For Elevated Installation >10' To 15' Above Floor, Add	16.09	
For Elevated Installation >15' To 20' Above Floor, Add	32.18	
For Elevated Installation >20' To 25' Above Floor, Add	40.23	
For Elevated Installation >25' To 30' Above Floor, Add	56.32	
For Elevated Installation >30' To 35' Above Floor, Add	64.37	
For Elevated Installation >35' To 40' Above Floor, Add	80.46	
For Elevated Installation >40' Above Floor, Add	88.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.28	
26 05 33 13-0785 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0740)		
26 05 33 13-0786 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	31.80	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15' Above Floor, Add	2.48	
For Elevated Installation >15' To 20' Above Floor, Add	4.95	
For Elevated Installation >20' To 25' Above Floor, Add	6.19	
For Elevated Installation >25' To 30' Above Floor, Add	8.67	
For Elevated Installation >30' To 35' Above Floor, Add	9.90	
For Elevated Installation >35' To 40' Above Floor, Add	12.38	
For Elevated Installation >40' Above Floor, Add	13.62	
26 05 33 13-0787 EA 3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	35.56	10.90
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
26 05 33 13-0788 EA 1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	40.88	12.38
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.84	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.03	
26 05 33 13-0789 EA 1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	46.52	13.37
For Work In Restricted Working Space, Add	10.03	
For Elevated Installation >10' To 15' Above Floor, Add	3.34	
For Elevated Installation >15' To 20' Above Floor, Add	6.68	
For Elevated Installation >20' To 25' Above Floor, Add	8.36	
For Elevated Installation >25' To 30' Above Floor, Add	11.70	
For Elevated Installation >30' To 35' Above Floor, Add	13.37	
For Elevated Installation >35' To 40' Above Floor, Add	16.71	
For Elevated Installation >40' Above Floor, Add	18.38	
26 05 33 13-0790 EA 1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	55.41	14.86
For Work In Restricted Working Space, Add	11.15	
For Elevated Installation >10' To 15' Above Floor, Add	3.72	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.58	
For Elevated Installation >40' Above Floor, Add	20.43	
26 05 33 13-0791 EA 2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	67.85	16.35
For Work In Restricted Working Space, Add	12.26	
For Elevated Installation >10' To 15' Above Floor, Add	4.09	
For Elevated Installation >15' To 20' Above Floor, Add	8.17	
For Elevated Installation >20' To 25' Above Floor, Add	10.22	
For Elevated Installation >25' To 30' Above Floor, Add	14.30	
For Elevated Installation >30' To 35' Above Floor, Add	16.34	
For Elevated Installation >35' To 40' Above Floor, Add	20.43	
For Elevated Installation >40' Above Floor, Add	22.47	
26 05 33 13-0792 EA 2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	92.78	19.81
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 05 33 13-0793	EA	3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	114.69	24.76
		For Work In Restricted Working Space, Add	18.57	
		For Elevated Installation >10' To 15' Above Floor, Add	6.19	
		For Elevated Installation >15' To 20' Above Floor, Add	12.38	
		For Elevated Installation >20' To 25' Above Floor, Add	15.48	
		For Elevated Installation >25' To 30' Above Floor, Add	21.67	
		For Elevated Installation >30' To 35' Above Floor, Add	24.76	
		For Elevated Installation >35' To 40' Above Floor, Add	30.95	
		For Elevated Installation >40' Above Floor, Add	34.05	
26 05 33 13-0794	EA	3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	137.78	29.71
		For Work In Restricted Working Space, Add	22.28	
		For Elevated Installation >10' To 15' Above Floor, Add	7.43	
		For Elevated Installation >15' To 20' Above Floor, Add	14.86	
		For Elevated Installation >20' To 25' Above Floor, Add	18.57	
		For Elevated Installation >25' To 30' Above Floor, Add	26.00	
		For Elevated Installation >30' To 35' Above Floor, Add	29.71	
		For Elevated Installation >35' To 40' Above Floor, Add	37.14	
		For Elevated Installation >40' Above Floor, Add	40.85	
26 05 33 13-0795	EA	4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	155.88	32.19
		For Work In Restricted Working Space, Add	24.14	
		For Elevated Installation >10' To 15' Above Floor, Add	8.05	
		For Elevated Installation >15' To 20' Above Floor, Add	16.09	
		For Elevated Installation >20' To 25' Above Floor, Add	20.12	
		For Elevated Installation >25' To 30' Above Floor, Add	28.16	
		For Elevated Installation >30' To 35' Above Floor, Add	32.19	
		For Elevated Installation >35' To 40' Above Floor, Add	40.24	
		For Elevated Installation >40' Above Floor, Add	44.26	
26 05 33 13-0796 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0740)				
26 05 33 13-0797	EA	1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	27.70	9.90
		For Work In Restricted Working Space, Add	7.43	
		For Elevated Installation >10' To 15' Above Floor, Add	2.48	
		For Elevated Installation >15' To 20' Above Floor, Add	4.95	
		For Elevated Installation >20' To 25' Above Floor, Add	6.19	
		For Elevated Installation >25' To 30' Above Floor, Add	8.67	
		For Elevated Installation >30' To 35' Above Floor, Add	9.90	
		For Elevated Installation >35' To 40' Above Floor, Add	12.38	
		For Elevated Installation >40' Above Floor, Add	13.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0798	EA	3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	35.36	12.38
		For Work In Restricted Working Space, Add	9.29	
		For Elevated Installation >10' To 15' Above Floor, Add	3.10	
		For Elevated Installation >15' To 20' Above Floor, Add	6.19	
		For Elevated Installation >20' To 25' Above Floor, Add	7.74	
		For Elevated Installation >25' To 30' Above Floor, Add	10.83	
		For Elevated Installation >30' To 35' Above Floor, Add	12.38	
		For Elevated Installation >35' To 40' Above Floor, Add	15.48	
		For Elevated Installation >40' Above Floor, Add	17.02	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0799	EA	1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	43.66	14.86
		For Work In Restricted Working Space, Add	11.15	
		For Elevated Installation >10' To 15' Above Floor, Add	3.72	
		For Elevated Installation >15' To 20' Above Floor, Add	7.43	
		For Elevated Installation >20' To 25' Above Floor, Add	9.29	
		For Elevated Installation >25' To 30' Above Floor, Add	13.00	
		For Elevated Installation >30' To 35' Above Floor, Add	14.86	
		For Elevated Installation >35' To 40' Above Floor, Add	18.58	
		For Elevated Installation >40' Above Floor, Add	20.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.15	
26 05 33 13-0800	EA	1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	52.55	17.33
		For Work In Restricted Working Space, Add	13.00	
		For Elevated Installation >10' To 15' Above Floor, Add	4.33	
		For Elevated Installation >15' To 20' Above Floor, Add	8.67	
		For Elevated Installation >20' To 25' Above Floor, Add	10.84	
		For Elevated Installation >25' To 30' Above Floor, Add	15.17	
		For Elevated Installation >30' To 35' Above Floor, Add	17.34	
		For Elevated Installation >35' To 40' Above Floor, Add	21.67	
		For Elevated Installation >40' Above Floor, Add	23.84	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 33 13-0801	EA	1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	61.39	19.81
		For Work In Restricted Working Space, Add	14.86	
		For Elevated Installation >10' To 15' Above Floor, Add	4.95	
		For Elevated Installation >15' To 20' Above Floor, Add	9.90	
		For Elevated Installation >20' To 25' Above Floor, Add	12.38	
		For Elevated Installation >25' To 30' Above Floor, Add	17.33	
		For Elevated Installation >30' To 35' Above Floor, Add	19.81	
		For Elevated Installation >35' To 40' Above Floor, Add	24.76	
		For Elevated Installation >40' Above Floor, Add	27.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.86	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0802 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	72.85	22.29
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.85	
For Elevated Installation >40' Above Floor, Add	30.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.71	
26 05 33 13-0803 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	90.63	24.76
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33 13-0804 EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	106.79	27.23
For Work In Restricted Working Space, Add	20.43	
For Elevated Installation >10' To 15' Above Floor, Add	6.81	
For Elevated Installation >15' To 20' Above Floor, Add	13.62	
For Elevated Installation >20' To 25' Above Floor, Add	17.02	
For Elevated Installation >25' To 30' Above Floor, Add	23.83	
For Elevated Installation >30' To 35' Above Floor, Add	27.24	
For Elevated Installation >35' To 40' Above Floor, Add	34.05	
For Elevated Installation >40' Above Floor, Add	37.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	
26 05 33 13-0805 EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	130.64	32.19
For Work In Restricted Working Space, Add	24.14	
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.14	
26 05 33 13-0806 EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	149.95	34.67
For Work In Restricted Working Space, Add	26.00	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.33	
For Elevated Installation >20' To 25' Above Floor, Add	21.66	
For Elevated Installation >25' To 30' Above Floor, Add	30.33	
For Elevated Installation >30' To 35' Above Floor, Add	34.66	
For Elevated Installation >35' To 40' Above Floor, Add	43.33	
For Elevated Installation >40' Above Floor, Add	47.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.00	
26 05 33 13-0807 Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0740)		
26 05 33 13-0808 EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	176.54	19.81
For Work In Restricted Working Space, Add	14.86	
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.91	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.34	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.77	
For Elevated Installation >40' Above Floor, Add	27.24	
26 05 33 13-0809 EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting	195.42	22.29
For Work In Restricted Working Space, Add	16.71	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
26 05 33 13-0810 EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting	217.18	24.76
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.96	
For Elevated Installation >40' Above Floor, Add	34.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0811 EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	261.77 20.43 6.81 13.62 17.02 23.83 27.24 34.05 37.45	27.23
26 05 33 13-0812 EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	319.95 22.28 7.43 14.85 18.57 25.99 29.71 37.14 40.85	29.71
26 05 33 13-0813 EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	419.25 24.14 8.05 16.09 20.12 28.16 32.18 40.23 44.25	32.19
26 05 33 13-0814 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	631.20 29.71 9.90 19.81 24.76 34.66 39.62 49.52 54.47	39.62
26 05 33 13-0815 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	759.23 37.14 12.38 24.76 30.95 43.33 49.52 61.90 68.09	49.52
26 05 33 13-0816 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	1,056.36 44.57 14.86 29.72 37.15 52.00 59.43 74.29 81.72	59.42
26 05 33 13-0817 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add	1,220.79 48.28 16.09 32.18 40.23 56.32 64.37 80.46 88.51	64.38
26 05 33 13-0818 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0740)		
26 05 33 13-0819 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.77 18.57 6.19 12.38 15.48 21.67 24.76 30.95 34.05 18.57	30.95
26 05 33 13-0820 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.68 22.28 7.43 14.86 18.57 26.00 29.71 37.14 40.85 22.28	37.14

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0821 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	160.43	43.33
For Work In Restricted Working Space, Add	26.00	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.33	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.33	
For Elevated Installation >30' To 35' Above Floor, Add	34.66	
For Elevated Installation >35' To 40' Above Floor, Add	43.33	
For Elevated Installation >40' Above Floor, Add	47.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.00	
26 05 33 13-0822 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	188.62	49.52
For Work In Restricted Working Space, Add	29.71	
For Elevated Installation >10' To 15' Above Floor, Add	9.90	
For Elevated Installation >15' To 20' Above Floor, Add	19.81	
For Elevated Installation >20' To 25' Above Floor, Add	24.76	
For Elevated Installation >25' To 30' Above Floor, Add	34.66	
For Elevated Installation >30' To 35' Above Floor, Add	39.62	
For Elevated Installation >35' To 40' Above Floor, Add	49.52	
For Elevated Installation >40' Above Floor, Add	54.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 05 33 13-0823 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	246.29	55.71
For Work In Restricted Working Space, Add	33.43	
For Elevated Installation >10' To 15' Above Floor, Add	11.14	
For Elevated Installation >15' To 20' Above Floor, Add	22.28	
For Elevated Installation >20' To 25' Above Floor, Add	27.86	
For Elevated Installation >25' To 30' Above Floor, Add	39.00	
For Elevated Installation >30' To 35' Above Floor, Add	44.57	
For Elevated Installation >35' To 40' Above Floor, Add	55.71	
For Elevated Installation >40' Above Floor, Add	61.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.43	
26 05 33 13-0824 EA 2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	298.54	61.90
For Work In Restricted Working Space, Add	37.14	
For Elevated Installation >10' To 15' Above Floor, Add	12.38	
For Elevated Installation >15' To 20' Above Floor, Add	24.76	
For Elevated Installation >20' To 25' Above Floor, Add	30.95	
For Elevated Installation >25' To 30' Above Floor, Add	43.33	
For Elevated Installation >30' To 35' Above Floor, Add	49.52	
For Elevated Installation >35' To 40' Above Floor, Add	61.90	
For Elevated Installation >40' Above Floor, Add	68.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.14	
26 05 33 13-0825 EA 2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	420.05	74.28
For Work In Restricted Working Space, Add	44.57	
For Elevated Installation >10' To 15' Above Floor, Add	14.86	
For Elevated Installation >15' To 20' Above Floor, Add	29.71	
For Elevated Installation >20' To 25' Above Floor, Add	37.14	
For Elevated Installation >25' To 30' Above Floor, Add	52.00	
For Elevated Installation >30' To 35' Above Floor, Add	59.42	
For Elevated Installation >35' To 40' Above Floor, Add	74.28	
For Elevated Installation >40' Above Floor, Add	81.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.57	
26 05 33 13-0826 EA 3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	504.95	86.66
For Work In Restricted Working Space, Add	52.00	
For Elevated Installation >10' To 15' Above Floor, Add	17.33	
For Elevated Installation >15' To 20' Above Floor, Add	34.66	
For Elevated Installation >20' To 25' Above Floor, Add	43.33	
For Elevated Installation >25' To 30' Above Floor, Add	60.66	
For Elevated Installation >30' To 35' Above Floor, Add	69.33	
For Elevated Installation >35' To 40' Above Floor, Add	86.66	
For Elevated Installation >40' Above Floor, Add	95.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.00	
26 05 33 13-0827 EA 3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,154.54	99.04
For Work In Restricted Working Space, Add	59.43	
For Elevated Installation >10' To 15' Above Floor, Add	19.81	
For Elevated Installation >15' To 20' Above Floor, Add	39.62	
For Elevated Installation >20' To 25' Above Floor, Add	49.52	
For Elevated Installation >25' To 30' Above Floor, Add	69.33	
For Elevated Installation >30' To 35' Above Floor, Add	79.24	
For Elevated Installation >35' To 40' Above Floor, Add	99.05	
For Elevated Installation >40' Above Floor, Add	108.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.43	
26 05 33 13-0828 EA 4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,329.79	111.42
For Work In Restricted Working Space, Add	66.85	
For Elevated Installation >10' To 15' Above Floor, Add	22.28	
For Elevated Installation >15' To 20' Above Floor, Add	44.57	
For Elevated Installation >20' To 25' Above Floor, Add	55.71	
For Elevated Installation >25' To 30' Above Floor, Add	77.99	
For Elevated Installation >30' To 35' Above Floor, Add	89.14	
For Elevated Installation >35' To 40' Above Floor, Add	111.42	
For Elevated Installation >40' Above Floor, Add	122.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.85	

26 05 33 13-0829 Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0740)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0830 EA 1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	16.52	5.94
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.71	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	
26 05 33 13-0831 EA 3/4" Intermediate Metal Conduit (IMC) Threaded Coupling	23.07	8.42
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15' Above Floor, Add	2.11	
For Elevated Installation >15' To 20' Above Floor, Add	4.21	
For Elevated Installation >20' To 25' Above Floor, Add	5.26	
For Elevated Installation >25' To 30' Above Floor, Add	7.37	
For Elevated Installation >30' To 35' Above Floor, Add	8.42	
For Elevated Installation >35' To 40' Above Floor, Add	10.53	
For Elevated Installation >40' Above Floor, Add	11.58	
26 05 33 13-0832 EA 1" Intermediate Metal Conduit (IMC) Threaded Coupling	30.24	10.90
For Work In Restricted Working Space, Add	8.17	
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.44	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.61	
For Elevated Installation >40' Above Floor, Add	14.97	
26 05 33 13-0833 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	34.73	12.38
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.84	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.03	
26 05 33 13-0834 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	41.89	14.86
For Work In Restricted Working Space, Add	11.14	
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.28	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.85	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.42	
26 05 33 13-0835 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling	48.37	16.84
For Work In Restricted Working Space, Add	12.63	
For Elevated Installation >10' To 15' Above Floor, Add	4.21	
For Elevated Installation >15' To 20' Above Floor, Add	8.42	
For Elevated Installation >20' To 25' Above Floor, Add	10.53	
For Elevated Installation >25' To 30' Above Floor, Add	14.74	
For Elevated Installation >30' To 35' Above Floor, Add	16.84	
For Elevated Installation >35' To 40' Above Floor, Add	21.05	
For Elevated Installation >40' Above Floor, Add	23.16	
26 05 33 13-0836 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	60.92	18.81
For Work In Restricted Working Space, Add	14.11	
For Elevated Installation >10' To 15' Above Floor, Add	4.70	
For Elevated Installation >15' To 20' Above Floor, Add	9.41	
For Elevated Installation >20' To 25' Above Floor, Add	11.76	
For Elevated Installation >25' To 30' Above Floor, Add	16.46	
For Elevated Installation >30' To 35' Above Floor, Add	18.81	
For Elevated Installation >35' To 40' Above Floor, Add	23.52	
For Elevated Installation >40' Above Floor, Add	25.87	
26 05 33 13-0837 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling	72.21	21.29
For Work In Restricted Working Space, Add	15.97	
For Elevated Installation >10' To 15' Above Floor, Add	5.32	
For Elevated Installation >15' To 20' Above Floor, Add	10.65	
For Elevated Installation >20' To 25' Above Floor, Add	13.31	
For Elevated Installation >25' To 30' Above Floor, Add	18.63	
For Elevated Installation >30' To 35' Above Floor, Add	21.30	
For Elevated Installation >35' To 40' Above Floor, Add	26.62	
For Elevated Installation >40' Above Floor, Add	29.28	
26 05 33 13-0838 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	83.56	23.28
For Work In Restricted Working Space, Add	17.46	
For Elevated Installation >10' To 15' Above Floor, Add	5.82	
For Elevated Installation >15' To 20' Above Floor, Add	11.64	
For Elevated Installation >20' To 25' Above Floor, Add	14.55	
For Elevated Installation >25' To 30' Above Floor, Add	20.37	
For Elevated Installation >30' To 35' Above Floor, Add	23.28	
For Elevated Installation >35' To 40' Above Floor, Add	29.10	
For Elevated Installation >40' Above Floor, Add	32.01	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0839	EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling	87.44		24.76
	For Work In Restricted Working Space, Add	18.56		
	For Elevated Installation >10' To 15' Above Floor, Add	6.19		
	For Elevated Installation >15' To 20' Above Floor, Add	12.38		
	For Elevated Installation >20' To 25' Above Floor, Add	15.47		
	For Elevated Installation >25' To 30' Above Floor, Add	21.66		
	For Elevated Installation >30' To 35' Above Floor, Add	24.75		
	For Elevated Installation >35' To 40' Above Floor, Add	30.94		
	For Elevated Installation >40' Above Floor, Add	34.03		
26 05 33 13-0840	Intermediate Metal Conduit (IMC) Reducer Bushings (26 05 33 13-0740)			
26 05 33 13-0841	EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	8.06		2.48
	For Work In Restricted Working Space, Add	1.86		
	For Elevated Installation >10' To 15' Above Floor, Add	0.62		
	For Elevated Installation >15' To 20' Above Floor, Add	1.24		
	For Elevated Installation >20' To 25' Above Floor, Add	1.55		
	For Elevated Installation >25' To 30' Above Floor, Add	2.17		
	For Elevated Installation >30' To 35' Above Floor, Add	2.48		
	For Elevated Installation >35' To 40' Above Floor, Add	3.10		
	For Elevated Installation >40' Above Floor, Add	3.40		
26 05 33 13-0842	EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	9.13		2.48
	For Work In Restricted Working Space, Add	1.86		
	For Elevated Installation >10' To 15' Above Floor, Add	0.62		
	For Elevated Installation >15' To 20' Above Floor, Add	1.24		
	For Elevated Installation >20' To 25' Above Floor, Add	1.55		
	For Elevated Installation >25' To 30' Above Floor, Add	2.17		
	For Elevated Installation >30' To 35' Above Floor, Add	2.48		
	For Elevated Installation >35' To 40' Above Floor, Add	3.10		
	For Elevated Installation >40' Above Floor, Add	3.40		
26 05 33 13-0843	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0059)			
	Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.			
26 05 33 13-0844	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0843)			
	Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".			
26 05 33 13-0845	LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	14.08		3.46
	For >250 To 500, Deduct	-0.49		
	For >500 To 1,000, Deduct	-0.84		
	For >1,000, Deduct	-1.19		
	For Elevated Installation >10' To 15' Above Floor, Add	0.87		
	For Elevated Installation >15' To 20' Above Floor, Add	1.73		
	For Elevated Installation >20' To 25' Above Floor, Add	2.17		
	For Elevated Installation >25' To 30' Above Floor, Add	3.03		
	For Elevated Installation >30' To 35' Above Floor, Add	3.47		
	For Elevated Installation >35' To 40' Above Floor, Add	4.34		
	For Elevated Installation >40' Above Floor, Add	4.77		
	For Work In Restricted Working Space, Add	2.60		
26 05 33 13-0846	LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	16.16		3.96
	For >250 To 500, Deduct	-0.56		
	For >500 To 1,000, Deduct	-0.96		
	For >1,000, Deduct	-1.37		
	For Elevated Installation >10' To 15' Above Floor, Add	0.99		
	For Elevated Installation >15' To 20' Above Floor, Add	1.98		
	For Elevated Installation >20' To 25' Above Floor, Add	2.48		
	For Elevated Installation >25' To 30' Above Floor, Add	3.47		
	For Elevated Installation >30' To 35' Above Floor, Add	3.96		
	For Elevated Installation >35' To 40' Above Floor, Add	4.95		
	For Elevated Installation >40' Above Floor, Add	5.45		
	For Work In Restricted Working Space, Add	2.97		
26 05 33 13-0847	LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	20.49		4.96
	For >250 To 500, Deduct	-0.72		
	For >500 To 1,000, Deduct	-1.23		
	For >1,000, Deduct	-1.74		
	For Elevated Installation >10' To 15' Above Floor, Add	1.24		
	For Elevated Installation >15' To 20' Above Floor, Add	2.48		
	For Elevated Installation >20' To 25' Above Floor, Add	3.10		
	For Elevated Installation >25' To 30' Above Floor, Add	4.33		
	For Elevated Installation >30' To 35' Above Floor, Add	4.95		
	For Elevated Installation >35' To 40' Above Floor, Add	6.19		
	For Elevated Installation >40' Above Floor, Add	6.81		
	For Work In Restricted Working Space, Add	3.71		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0848	LF	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	25.14	5.94
			For >250 To 500, Deduct	-0.89	
			For >500 To 1,000, Deduct	-1.51	
			For >1,000, Deduct	-2.14	
			For Elevated Installation >10' To 15' Above Floor, Add	1.49	
			For Elevated Installation >15' To 20' Above Floor, Add	2.97	
			For Elevated Installation >20' To 25' Above Floor, Add	3.72	
			For Elevated Installation >25' To 30' Above Floor, Add	5.20	
			For Elevated Installation >30' To 35' Above Floor, Add	5.94	
			For Elevated Installation >35' To 40' Above Floor, Add	7.43	
			For Elevated Installation >40' Above Floor, Add	8.17	
			For Work In Restricted Working Space, Add	4.46	
26 05 33 13-0849	LF	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	31.07	7.43
			For >250 To 500, Deduct	-1.09	
			For >500 To 1,000, Deduct	-1.87	
			For >1,000, Deduct	-2.64	
			For Elevated Installation >10' To 15' Above Floor, Add	1.86	
			For Elevated Installation >15' To 20' Above Floor, Add	3.71	
			For Elevated Installation >20' To 25' Above Floor, Add	4.64	
			For Elevated Installation >25' To 30' Above Floor, Add	6.50	
			For Elevated Installation >30' To 35' Above Floor, Add	7.43	
			For Elevated Installation >35' To 40' Above Floor, Add	9.29	
			For Elevated Installation >40' Above Floor, Add	10.21	
			For Work In Restricted Working Space, Add	5.57	
26 05 33 13-0850	LF	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	38.58	8.91
			For >250 To 500, Deduct	-1.37	
			For >500 To 1,000, Deduct	-2.34	
			For >1,000, Deduct	-3.30	
			For Elevated Installation >10' To 15' Above Floor, Add	2.23	
			For Elevated Installation >15' To 20' Above Floor, Add	4.46	
			For Elevated Installation >20' To 25' Above Floor, Add	5.57	
			For Elevated Installation >25' To 30' Above Floor, Add	7.80	
			For Elevated Installation >30' To 35' Above Floor, Add	8.92	
			For Elevated Installation >35' To 40' Above Floor, Add	11.15	
			For Elevated Installation >40' Above Floor, Add	12.26	
			For Work In Restricted Working Space, Add	6.69	
26 05 33 13-0851	LF	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	50.70	10.40
			For >250 To 500, Deduct	-1.89	
			For >500 To 1,000, Deduct	-3.15	
			For >1,000, Deduct	-4.42	
			For Elevated Installation >10' To 15' Above Floor, Add	2.60	
			For Elevated Installation >15' To 20' Above Floor, Add	5.20	
			For Elevated Installation >20' To 25' Above Floor, Add	6.50	
			For Elevated Installation >25' To 30' Above Floor, Add	9.10	
			For Elevated Installation >30' To 35' Above Floor, Add	10.40	
			For Elevated Installation >35' To 40' Above Floor, Add	13.00	
			For Elevated Installation >40' Above Floor, Add	14.30	
			For Work In Restricted Working Space, Add	7.80	
26 05 33 13-0852	LF	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	63.34	12.87
			For >250 To 500, Deduct	-2.36	
			For >500 To 1,000, Deduct	-3.95	
			For >1,000, Deduct	-5.53	
			For Elevated Installation >10' To 15' Above Floor, Add	3.22	
			For Elevated Installation >15' To 20' Above Floor, Add	6.44	
			For Elevated Installation >20' To 25' Above Floor, Add	8.05	
			For Elevated Installation >25' To 30' Above Floor, Add	11.27	
			For Elevated Installation >30' To 35' Above Floor, Add	12.88	
			For Elevated Installation >35' To 40' Above Floor, Add	16.10	
			For Elevated Installation >40' Above Floor, Add	17.70	
			For Work In Restricted Working Space, Add	9.66	
26 05 33 13-0853	LF	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	77.72	15.84
			For >250 To 500, Deduct	-2.90	
			For >500 To 1,000, Deduct	-4.84	
			For >1,000, Deduct	-6.78	
			For Elevated Installation >10' To 15' Above Floor, Add	3.96	
			For Elevated Installation >15' To 20' Above Floor, Add	7.92	
			For Elevated Installation >20' To 25' Above Floor, Add	9.91	
			For Elevated Installation >25' To 30' Above Floor, Add	13.87	
			For Elevated Installation >30' To 35' Above Floor, Add	15.85	
			For Elevated Installation >35' To 40' Above Floor, Add	19.81	
			For Elevated Installation >40' Above Floor, Add	21.79	
			For Work In Restricted Working Space, Add	11.89	
26 05 33 13-0854	LF	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	91.96	18.81
			For >250 To 500, Deduct	-3.42	
			For >500 To 1,000, Deduct	-5.72	
			For >1,000, Deduct	-8.02	
			For Elevated Installation >10' To 15' Above Floor, Add	4.70	
			For Elevated Installation >15' To 20' Above Floor, Add	9.41	
			For Elevated Installation >20' To 25' Above Floor, Add	11.76	
			For Elevated Installation >25' To 30' Above Floor, Add	16.46	
			For Elevated Installation >30' To 35' Above Floor, Add	18.82	
			For Elevated Installation >35' To 40' Above Floor, Add	23.52	
			For Elevated Installation >40' Above Floor, Add	25.87	
			For Work In Restricted Working Space, Add	14.11	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0855 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	135.32	22.29
For >250 To 500, Deduct	-5.37	
For >500 To 1,000, Deduct	-8.76	
For >1,000, Deduct	-12.14	
For Elevated Installation >10' To 15' Above Floor, Add	5.57	
For Elevated Installation >15' To 20' Above Floor, Add	11.14	
For Elevated Installation >20' To 25' Above Floor, Add	13.93	
For Elevated Installation >25' To 30' Above Floor, Add	19.50	
For Elevated Installation >30' To 35' Above Floor, Add	22.28	
For Elevated Installation >35' To 40' Above Floor, Add	27.86	
For Elevated Installation >40' Above Floor, Add	30.64	
For Work In Restricted Working Space, Add	16.71	
26 05 33 13-0856 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	183.37	29.71
For >250 To 500, Deduct	-7.31	
For >500 To 1,000, Deduct	-11.90	
For >1,000, Deduct	-16.48	
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.86	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	26.00	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
For Work In Restricted Working Space, Add	22.28	
26 05 33 13-0857 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings		
(26 05 33 13-0843)		
26 05 33 13-0858 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	20.57	7.43
For Elevated Installation >10' To 15' Above Floor, Add	1.49	
For Elevated Installation >15' To 20' Above Floor, Add	2.97	
For Elevated Installation >20' To 25' Above Floor, Add	3.72	
For Elevated Installation >25' To 30' Above Floor, Add	5.20	
For Elevated Installation >30' To 35' Above Floor, Add	5.94	
For Elevated Installation >35' To 40' Above Floor, Add	7.43	
For Elevated Installation >40' Above Floor, Add	8.17	
For Work In Restricted Working Space, Add	4.46	
26 05 33 13-0859 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	27.02	10.53
For Elevated Installation >10' To 15' Above Floor, Add	2.10	
For Elevated Installation >15' To 20' Above Floor, Add	4.21	
For Elevated Installation >20' To 25' Above Floor, Add	5.26	
For Elevated Installation >25' To 30' Above Floor, Add	7.36	
For Elevated Installation >30' To 35' Above Floor, Add	8.42	
For Elevated Installation >35' To 40' Above Floor, Add	10.52	
For Elevated Installation >40' Above Floor, Add	11.57	
For Work In Restricted Working Space, Add	6.31	
26 05 33 13-0860 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	34.99	13.62
For Elevated Installation >10' To 15' Above Floor, Add	2.72	
For Elevated Installation >15' To 20' Above Floor, Add	5.45	
For Elevated Installation >20' To 25' Above Floor, Add	6.81	
For Elevated Installation >25' To 30' Above Floor, Add	9.53	
For Elevated Installation >30' To 35' Above Floor, Add	10.89	
For Elevated Installation >35' To 40' Above Floor, Add	13.62	
For Elevated Installation >40' Above Floor, Add	14.98	
For Work In Restricted Working Space, Add	8.17	
26 05 33 13-0861 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	40.01	15.47
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Work In Restricted Working Space, Add	9.29	
26 05 33 13-0862 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	47.91	18.57
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
For Work In Restricted Working Space, Add	11.14	
26 05 33 13-0863 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	57.85	21.04
For Elevated Installation >10' To 15' Above Floor, Add	4.21	
For Elevated Installation >15' To 20' Above Floor, Add	8.42	
For Elevated Installation >20' To 25' Above Floor, Add	10.52	
For Elevated Installation >25' To 30' Above Floor, Add	14.73	
For Elevated Installation >30' To 35' Above Floor, Add	16.84	
For Elevated Installation >35' To 40' Above Floor, Add	21.05	
For Elevated Installation >40' Above Floor, Add	23.15	
For Work In Restricted Working Space, Add	12.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0864 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	86.05	21.04
For Elevated Installation >10' To 15' Above Floor, Add	4.70	
For Elevated Installation >15' To 20' Above Floor, Add	9.41	
For Elevated Installation >20' To 25' Above Floor, Add	11.76	
For Elevated Installation >25' To 30' Above Floor, Add	16.46	
For Elevated Installation >30' To 35' Above Floor, Add	18.82	
For Elevated Installation >35' To 40' Above Floor, Add	23.52	
For Elevated Installation >40' Above Floor, Add	25.87	
For Work In Restricted Working Space, Add	14.11	
26 05 33 13-0865 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	100.60	29.09
For Elevated Installation >10' To 15' Above Floor, Add	5.32	
For Elevated Installation >15' To 20' Above Floor, Add	10.65	
For Elevated Installation >20' To 25' Above Floor, Add	13.31	
For Elevated Installation >25' To 30' Above Floor, Add	18.63	
For Elevated Installation >30' To 35' Above Floor, Add	21.29	
For Elevated Installation >35' To 40' Above Floor, Add	26.62	
For Elevated Installation >40' Above Floor, Add	29.28	
For Work In Restricted Working Space, Add	15.97	
26 05 33 13-0866 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	118.96	29.09
For Elevated Installation >10' To 15' Above Floor, Add	5.82	
For Elevated Installation >15' To 20' Above Floor, Add	11.64	
For Elevated Installation >20' To 25' Above Floor, Add	14.55	
For Elevated Installation >25' To 30' Above Floor, Add	20.37	
For Elevated Installation >30' To 35' Above Floor, Add	23.28	
For Elevated Installation >35' To 40' Above Floor, Add	29.10	
For Elevated Installation >40' Above Floor, Add	32.00	
For Work In Restricted Working Space, Add	17.46	
26 05 33 13-0867 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	132.96	30.95
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Work In Restricted Working Space, Add	18.57	
26 05 33 13-0868 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	305.82	37.14
For Elevated Installation >10' To 15' Above Floor, Add	7.43	
For Elevated Installation >15' To 20' Above Floor, Add	14.86	
For Elevated Installation >20' To 25' Above Floor, Add	18.57	
For Elevated Installation >25' To 30' Above Floor, Add	26.00	
For Elevated Installation >30' To 35' Above Floor, Add	29.71	
For Elevated Installation >35' To 40' Above Floor, Add	37.14	
For Elevated Installation >40' Above Floor, Add	40.85	
For Work In Restricted Working Space, Add	22.28	
26 05 33 13-0869 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	345.30	43.33
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.33	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.33	
For Elevated Installation >30' To 35' Above Floor, Add	34.66	
For Elevated Installation >35' To 40' Above Floor, Add	43.33	
For Elevated Installation >40' Above Floor, Add	47.66	
For Work In Restricted Working Space, Add	26.00	
26 05 33 13-0870 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows (26 05 33 13-0843) Note: 90, 45, or 30-degree.		
26 05 33 13-0871 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	60.25	20.12
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.05	
For Elevated Installation >20' To 25' Above Floor, Add	10.06	
For Elevated Installation >25' To 30' Above Floor, Add	14.08	
For Elevated Installation >30' To 35' Above Floor, Add	16.10	
For Elevated Installation >35' To 40' Above Floor, Add	20.12	
For Elevated Installation >40' Above Floor, Add	22.13	
For Work In Restricted Working Space, Add	12.07	
26 05 33 13-0872 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	70.66	24.94
For Elevated Installation >10' To 15' Above Floor, Add	4.99	
For Elevated Installation >15' To 20' Above Floor, Add	9.98	
For Elevated Installation >20' To 25' Above Floor, Add	12.47	
For Elevated Installation >25' To 30' Above Floor, Add	17.46	
For Elevated Installation >30' To 35' Above Floor, Add	19.96	
For Elevated Installation >35' To 40' Above Floor, Add	24.95	
For Elevated Installation >40' Above Floor, Add	27.44	
For Work In Restricted Working Space, Add	14.97	
26 05 33 13-0873 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	84.98	30.57
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
For Work In Restricted Working Space, Add	18.35	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0874 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	100.09	35.41
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-0875 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	116.45	40.24
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Work In Restricted Working Space, Add	24.14	
26 05 33 13-0876 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	138.73	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-0877 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	205.65	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
For Work In Restricted Working Space, Add	33.32	
26 05 33 13-0878 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	302.46	75.64
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.82	
For Elevated Installation >25' To 30' Above Floor, Add	52.95	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.21	
For Work In Restricted Working Space, Add	45.39	
26 05 33 13-0879 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	368.96	85.30
For Elevated Installation >10' To 15' Above Floor, Add	17.06	
For Elevated Installation >15' To 20' Above Floor, Add	34.12	
For Elevated Installation >20' To 25' Above Floor, Add	42.65	
For Elevated Installation >25' To 30' Above Floor, Add	59.71	
For Elevated Installation >30' To 35' Above Floor, Add	68.24	
For Elevated Installation >35' To 40' Above Floor, Add	85.30	
For Elevated Installation >40' Above Floor, Add	93.83	
For Work In Restricted Working Space, Add	51.18	
26 05 33 13-0880 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	431.78	111.05
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
For Work In Restricted Working Space, Add	66.63	
26 05 33 13-0881 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	867.41	181.06
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	
For Work In Restricted Working Space, Add	108.63	
26 05 33 13-0882 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,356.18	271.99
For Elevated Installation >10' To 15' Above Floor, Add	54.40	
For Elevated Installation >15' To 20' Above Floor, Add	108.79	
For Elevated Installation >20' To 25' Above Floor, Add	135.99	
For Elevated Installation >25' To 30' Above Floor, Add	190.39	
For Elevated Installation >30' To 35' Above Floor, Add	217.59	
For Elevated Installation >35' To 40' Above Floor, Add	271.99	
For Elevated Installation >40' Above Floor, Add	299.18	
For Work In Restricted Working Space, Add	163.19	

26 05 33 13-0883 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel
(RGS) 12" Large Radius Elbows (26 05 33 13-0843)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0884 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	132.15	30.57
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
For Work In Restricted Working Space, Add	18.35	
26 05 33 13-0885 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	149.33	35.41
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-0886 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	170.36	40.24
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Work In Restricted Working Space, Add	24.14	
26 05 33 13-0887 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	200.94	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-0888 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	276.06	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
For Work In Restricted Working Space, Add	33.32	
26 05 33 13-0889 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows (26 05 33 13-0843)		
26 05 33 13-0890 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	144.90	30.57
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
For Work In Restricted Working Space, Add	18.35	
26 05 33 13-0891 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	170.40	35.41
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-0892 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	185.47	40.24
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Work In Restricted Working Space, Add	24.14	
26 05 33 13-0893 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	233.89	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0894 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	307.84	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
For Work In Restricted Working Space, Add	33.32	
26 05 33 13-0895 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	396.69	75.64
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.82	
For Elevated Installation >25' To 30' Above Floor, Add	52.95	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.21	
For Work In Restricted Working Space, Add	45.39	
26 05 33 13-0896 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows (26 05 33 13-0843)		
26 05 33 13-0897 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	160.15	30.57
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
For Work In Restricted Working Space, Add	18.35	
26 05 33 13-0898 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	181.38	35.41
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-0899 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	204.86	40.24
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Work In Restricted Working Space, Add	24.14	
26 05 33 13-0900 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	244.82	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-0901 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	344.35	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
For Work In Restricted Working Space, Add	33.32	
26 05 33 13-0902 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	439.56	75.64
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.82	
For Elevated Installation >25' To 30' Above Floor, Add	52.95	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.21	
For Work In Restricted Working Space, Add	45.39	
26 05 33 13-0903 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	548.48	85.30
For Elevated Installation >10' To 15' Above Floor, Add	17.06	
For Elevated Installation >15' To 20' Above Floor, Add	34.12	
For Elevated Installation >20' To 25' Above Floor, Add	42.65	
For Elevated Installation >25' To 30' Above Floor, Add	59.71	
For Elevated Installation >30' To 35' Above Floor, Add	68.24	
For Elevated Installation >35' To 40' Above Floor, Add	85.30	
For Elevated Installation >40' Above Floor, Add	93.83	
For Work In Restricted Working Space, Add	51.18	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0904	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	627.36 22.21 44.42 55.53 77.74 88.84 111.05 122.16 66.63	111.05
26 05 33 13-0905		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows (26 05 33 13-0843)		
26 05 33 13-0906	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.50 6.12 12.23 15.29 21.41 24.46 30.58 33.64 18.35	30.57
26 05 33 13-0907	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	207.15 7.08 14.16 17.70 24.78 28.32 35.41 38.95 21.24	35.41
26 05 33 13-0908	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.11 8.05 16.09 20.12 28.16 32.19 40.24 44.26 24.14	40.24
26 05 33 13-0909	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	286.95 8.85 17.70 22.13 30.98 35.41 44.26 48.69 26.56	44.26
26 05 33 13-0910	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	409.69 11.11 22.21 27.76 38.87 44.42 55.53 61.08 33.32	55.53
26 05 33 13-0911	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	512.19 15.13 30.26 37.82 52.95 60.52 75.65 83.21 45.39	75.64
26 05 33 13-0912	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	592.82 17.06 34.12 42.65 59.71 68.24 85.30 93.83 51.18	85.30
26 05 33 13-0913	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	708.77 22.21 44.42 55.53 77.74 88.84 111.05 122.16 66.63	111.05

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-0914	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows (26 05 33 13-0843)			
26 05 33 13-0915	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	206.99	30.57
		For Elevated Installation >10' To 15' Above Floor, Add	6.12	
		For Elevated Installation >15' To 20' Above Floor, Add	12.23	
		For Elevated Installation >20' To 25' Above Floor, Add	15.29	
		For Elevated Installation >25' To 30' Above Floor, Add	21.41	
		For Elevated Installation >30' To 35' Above Floor, Add	24.46	
		For Elevated Installation >35' To 40' Above Floor, Add	30.58	
		For Elevated Installation >40' Above Floor, Add	33.64	
		For Work In Restricted Working Space, Add	18.35	
26 05 33 13-0916	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	231.13	35.41
		For Elevated Installation >10' To 15' Above Floor, Add	7.08	
		For Elevated Installation >15' To 20' Above Floor, Add	14.16	
		For Elevated Installation >20' To 25' Above Floor, Add	17.70	
		For Elevated Installation >25' To 30' Above Floor, Add	24.78	
		For Elevated Installation >30' To 35' Above Floor, Add	28.32	
		For Elevated Installation >35' To 40' Above Floor, Add	35.41	
		For Elevated Installation >40' Above Floor, Add	38.95	
		For Work In Restricted Working Space, Add	21.24	
26 05 33 13-0917	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	262.91	40.24
		For Elevated Installation >10' To 15' Above Floor, Add	8.05	
		For Elevated Installation >15' To 20' Above Floor, Add	16.09	
		For Elevated Installation >20' To 25' Above Floor, Add	20.12	
		For Elevated Installation >25' To 30' Above Floor, Add	28.16	
		For Elevated Installation >30' To 35' Above Floor, Add	32.19	
		For Elevated Installation >35' To 40' Above Floor, Add	40.24	
		For Elevated Installation >40' Above Floor, Add	44.26	
		For Work In Restricted Working Space, Add	24.14	
26 05 33 13-0918	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	323.62	44.26
		For Elevated Installation >10' To 15' Above Floor, Add	8.85	
		For Elevated Installation >15' To 20' Above Floor, Add	17.70	
		For Elevated Installation >20' To 25' Above Floor, Add	22.13	
		For Elevated Installation >25' To 30' Above Floor, Add	30.98	
		For Elevated Installation >30' To 35' Above Floor, Add	35.41	
		For Elevated Installation >35' To 40' Above Floor, Add	44.26	
		For Elevated Installation >40' Above Floor, Add	48.69	
		For Work In Restricted Working Space, Add	26.56	
26 05 33 13-0919	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	445.35	55.53
		For Elevated Installation >10' To 15' Above Floor, Add	11.11	
		For Elevated Installation >15' To 20' Above Floor, Add	22.21	
		For Elevated Installation >20' To 25' Above Floor, Add	27.76	
		For Elevated Installation >25' To 30' Above Floor, Add	38.87	
		For Elevated Installation >30' To 35' Above Floor, Add	44.42	
		For Elevated Installation >35' To 40' Above Floor, Add	55.53	
		For Elevated Installation >40' Above Floor, Add	61.08	
		For Work In Restricted Working Space, Add	33.32	
26 05 33 13-0920	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	570.28	75.64
		For Elevated Installation >10' To 15' Above Floor, Add	15.13	
		For Elevated Installation >15' To 20' Above Floor, Add	30.26	
		For Elevated Installation >20' To 25' Above Floor, Add	37.82	
		For Elevated Installation >25' To 30' Above Floor, Add	52.95	
		For Elevated Installation >30' To 35' Above Floor, Add	60.52	
		For Elevated Installation >35' To 40' Above Floor, Add	75.65	
		For Elevated Installation >40' Above Floor, Add	83.21	
		For Work In Restricted Working Space, Add	45.39	
26 05 33 13-0921	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	700.64	85.30
		For Elevated Installation >10' To 15' Above Floor, Add	17.06	
		For Elevated Installation >15' To 20' Above Floor, Add	34.12	
		For Elevated Installation >20' To 25' Above Floor, Add	42.65	
		For Elevated Installation >25' To 30' Above Floor, Add	59.71	
		For Elevated Installation >30' To 35' Above Floor, Add	68.24	
		For Elevated Installation >35' To 40' Above Floor, Add	85.30	
		For Elevated Installation >40' Above Floor, Add	93.83	
		For Work In Restricted Working Space, Add	51.18	
26 05 33 13-0922	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	783.50	111.05
		For Elevated Installation >10' To 15' Above Floor, Add	22.21	
		For Elevated Installation >15' To 20' Above Floor, Add	44.42	
		For Elevated Installation >20' To 25' Above Floor, Add	55.53	
		For Elevated Installation >25' To 30' Above Floor, Add	77.74	
		For Elevated Installation >30' To 35' Above Floor, Add	88.84	
		For Elevated Installation >35' To 40' Above Floor, Add	111.05	
		For Elevated Installation >40' Above Floor, Add	122.16	
		For Work In Restricted Working Space, Add	66.63	
26 05 33 13-0923	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	1,303.68	181.06
		For Elevated Installation >10' To 15' Above Floor, Add	36.21	
		For Elevated Installation >15' To 20' Above Floor, Add	72.42	
		For Elevated Installation >20' To 25' Above Floor, Add	90.53	
		For Elevated Installation >25' To 30' Above Floor, Add	126.74	
		For Elevated Installation >30' To 35' Above Floor, Add	144.84	
		For Elevated Installation >35' To 40' Above Floor, Add	181.06	
		For Elevated Installation >40' Above Floor, Add	199.16	
		For Work In Restricted Working Space, Add	108.63	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST	UNIT COST	
26 05 33 13-0924 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows (26 05 33 13-0843)				
26 05 33 13-0925	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	233.80		30.57
	For Elevated Installation >10' To 15' Above Floor, Add	6.12		
	For Elevated Installation >15' To 20' Above Floor, Add	12.23		
	For Elevated Installation >20' To 25' Above Floor, Add	15.29		
	For Elevated Installation >25' To 30' Above Floor, Add	21.41		
	For Elevated Installation >30' To 35' Above Floor, Add	24.46		
	For Elevated Installation >35' To 40' Above Floor, Add	30.58		
	For Elevated Installation >40' Above Floor, Add	33.64		
	For Work In Restricted Working Space, Add	18.35		
26 05 33 13-0926	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	260.11		35.41
	For Elevated Installation >10' To 15' Above Floor, Add	7.08		
	For Elevated Installation >15' To 20' Above Floor, Add	14.16		
	For Elevated Installation >20' To 25' Above Floor, Add	17.70		
	For Elevated Installation >25' To 30' Above Floor, Add	24.78		
	For Elevated Installation >30' To 35' Above Floor, Add	28.32		
	For Elevated Installation >35' To 40' Above Floor, Add	35.41		
	For Elevated Installation >40' Above Floor, Add	38.95		
	For Work In Restricted Working Space, Add	21.24		
26 05 33 13-0927	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	294.47		40.24
	For Elevated Installation >10' To 15' Above Floor, Add	8.05		
	For Elevated Installation >15' To 20' Above Floor, Add	16.09		
	For Elevated Installation >20' To 25' Above Floor, Add	20.12		
	For Elevated Installation >25' To 30' Above Floor, Add	28.16		
	For Elevated Installation >30' To 35' Above Floor, Add	32.19		
	For Elevated Installation >35' To 40' Above Floor, Add	40.24		
	For Elevated Installation >40' Above Floor, Add	44.26		
	For Work In Restricted Working Space, Add	24.14		
26 05 33 13-0928	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	364.29		44.26
	For Elevated Installation >10' To 15' Above Floor, Add	8.85		
	For Elevated Installation >15' To 20' Above Floor, Add	17.70		
	For Elevated Installation >20' To 25' Above Floor, Add	22.13		
	For Elevated Installation >25' To 30' Above Floor, Add	30.98		
	For Elevated Installation >30' To 35' Above Floor, Add	35.41		
	For Elevated Installation >35' To 40' Above Floor, Add	44.26		
	For Elevated Installation >40' Above Floor, Add	48.69		
	For Work In Restricted Working Space, Add	26.56		
26 05 33 13-0929	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	504.76		55.53
	For Elevated Installation >10' To 15' Above Floor, Add	11.11		
	For Elevated Installation >15' To 20' Above Floor, Add	22.21		
	For Elevated Installation >20' To 25' Above Floor, Add	27.76		
	For Elevated Installation >25' To 30' Above Floor, Add	38.87		
	For Elevated Installation >30' To 35' Above Floor, Add	44.42		
	For Elevated Installation >35' To 40' Above Floor, Add	55.53		
	For Elevated Installation >40' Above Floor, Add	61.08		
	For Work In Restricted Working Space, Add	33.32		
26 05 33 13-0930	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	644.29		75.64
	For Elevated Installation >10' To 15' Above Floor, Add	15.13		
	For Elevated Installation >15' To 20' Above Floor, Add	30.26		
	For Elevated Installation >20' To 25' Above Floor, Add	37.82		
	For Elevated Installation >25' To 30' Above Floor, Add	52.95		
	For Elevated Installation >30' To 35' Above Floor, Add	60.52		
	For Elevated Installation >35' To 40' Above Floor, Add	75.65		
	For Elevated Installation >40' Above Floor, Add	83.21		
	For Work In Restricted Working Space, Add	45.39		
26 05 33 13-0931	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	754.67		85.30
	For Elevated Installation >10' To 15' Above Floor, Add	17.06		
	For Elevated Installation >15' To 20' Above Floor, Add	34.12		
	For Elevated Installation >20' To 25' Above Floor, Add	42.65		
	For Elevated Installation >25' To 30' Above Floor, Add	59.71		
	For Elevated Installation >30' To 35' Above Floor, Add	68.24		
	For Elevated Installation >35' To 40' Above Floor, Add	85.30		
	For Elevated Installation >40' Above Floor, Add	93.83		
	For Work In Restricted Working Space, Add	51.18		
26 05 33 13-0932	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	879.98		111.05
	For Elevated Installation >10' To 15' Above Floor, Add	22.21		
	For Elevated Installation >15' To 20' Above Floor, Add	44.42		
	For Elevated Installation >20' To 25' Above Floor, Add	55.53		
	For Elevated Installation >25' To 30' Above Floor, Add	77.74		
	For Elevated Installation >30' To 35' Above Floor, Add	88.84		
	For Elevated Installation >35' To 40' Above Floor, Add	111.05		
	For Elevated Installation >40' Above Floor, Add	122.16		
	For Work In Restricted Working Space, Add	66.63		
26 05 33 13-0933	EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	1,371.29		181.06
	For Elevated Installation >10' To 15' Above Floor, Add	36.21		
	For Elevated Installation >15' To 20' Above Floor, Add	72.42		
	For Elevated Installation >20' To 25' Above Floor, Add	90.53		
	For Elevated Installation >25' To 30' Above Floor, Add	126.74		
	For Elevated Installation >30' To 35' Above Floor, Add	144.84		
	For Elevated Installation >35' To 40' Above Floor, Add	181.06		
	For Elevated Installation >40' Above Floor, Add	199.16		
	For Work In Restricted Working Space, Add	108.63		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0934	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	1,890.43 54.40 108.79 135.99 190.39 217.59 271.99 299.18 163.19	271.99
26 05 33 13-0935 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows (26 05 33 13-0843)				
26 05 33 13-0936	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	271.12 6.12 12.23 15.29 21.41 24.46 30.58 33.64 18.35	30.57
26 05 33 13-0937	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	285.94 7.08 14.16 17.70 24.78 28.32 35.41 38.95 21.24	35.41
26 05 33 13-0938	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	336.71 8.05 16.09 20.12 28.16 32.19 40.24 44.26 24.14	40.24
26 05 33 13-0939	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	420.90 8.85 17.70 22.13 30.98 35.41 44.26 48.69 26.56	44.26
26 05 33 13-0940	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	584.87 11.11 22.21 27.76 38.87 44.42 55.53 61.08 33.32	55.53
26 05 33 13-0941	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	744.07 15.13 30.26 37.82 52.95 60.52 75.65 83.21 45.39	75.64
26 05 33 13-0942	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	904.87 17.06 34.12 42.65 59.71 68.24 85.30 93.83 51.18	85.30
26 05 33 13-0943	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	1,067.66 22.21 44.42 55.53 77.74 88.84 111.05 122.16 66.63	111.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0944 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	1,591.83 36.21 72.42 90.53 126.74 144.84 181.06 199.16 108.63	181.06
26 05 33 13-0945 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	1,991.67 54.40 108.79 135.99 190.39 217.59 271.99 299.18 163.19	271.99
26 05 33 13-0946 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0843)		
26 05 33 13-0947 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	280.11 6.12 12.23 15.29 21.41 24.46 30.58 33.64 18.35	30.57
26 05 33 13-0948 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	329.64 7.08 14.16 17.70 24.78 28.32 35.41 38.95 21.24	35.41
26 05 33 13-0949 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	373.24 8.05 16.09 20.12 28.16 32.19 40.24 44.26 24.14	40.24
26 05 33 13-0950 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	437.93 8.85 17.70 22.13 30.98 35.41 44.26 48.69 26.56	44.26
26 05 33 13-0951 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	604.88 11.11 22.21 27.76 38.87 44.42 55.53 61.08 33.32	55.53
26 05 33 13-0952 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	774.76 15.13 30.26 37.82 52.95 60.52 75.65 83.21 45.39	75.64
26 05 33 13-0953 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Work In Restricted Working Space, Add	986.67 17.06 34.12 42.65 59.71 68.24 85.30 93.83 51.18	85.30

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0954 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,110.22	111.05
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
For Work In Restricted Working Space, Add	66.63	
26 05 33 13-0955 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,651.08	181.06
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	
For Work In Restricted Working Space, Add	108.63	
26 05 33 13-0956 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	2,043.10	271.99
For Elevated Installation >10' To 15' Above Floor, Add	54.40	
For Elevated Installation >15' To 20' Above Floor, Add	108.79	
For Elevated Installation >20' To 25' Above Floor, Add	135.99	
For Elevated Installation >25' To 30' Above Floor, Add	190.39	
For Elevated Installation >30' To 35' Above Floor, Add	217.59	
For Elevated Installation >35' To 40' Above Floor, Add	271.99	
For Elevated Installation >40' Above Floor, Add	299.18	
For Work In Restricted Working Space, Add	163.19	
26 05 33 13-0957 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fittings (26 05 33 13-0843)		
26 05 33 13-0958 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	107.53	20.12
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.05	
For Elevated Installation >20' To 25' Above Floor, Add	10.06	
For Elevated Installation >25' To 30' Above Floor, Add	14.08	
For Elevated Installation >30' To 35' Above Floor, Add	16.10	
For Elevated Installation >35' To 40' Above Floor, Add	20.12	
For Elevated Installation >40' Above Floor, Add	22.13	
For Work In Restricted Working Space, Add	12.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-0959 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	132.46	26.55
For Elevated Installation >10' To 15' Above Floor, Add	5.31	
For Elevated Installation >15' To 20' Above Floor, Add	10.62	
For Elevated Installation >20' To 25' Above Floor, Add	13.28	
For Elevated Installation >25' To 30' Above Floor, Add	18.59	
For Elevated Installation >30' To 35' Above Floor, Add	21.24	
For Elevated Installation >35' To 40' Above Floor, Add	26.56	
For Elevated Installation >40' Above Floor, Add	29.21	
For Work In Restricted Working Space, Add	15.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.93	
26 05 33 13-0960 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	174.48	30.57
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
For Work In Restricted Working Space, Add	18.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.35	
26 05 33 13-0961 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	280.05	35.41
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
For Work In Restricted Working Space, Add	21.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.24	
26 05 33 13-0962 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting	309.72	40.24
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Work In Restricted Working Space, Add	24.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0963	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	388.45	44.26
			For Elevated Installation >10' To 15' Above Floor, Add	8.85	
			For Elevated Installation >15' To 20' Above Floor, Add	17.70	
			For Elevated Installation >20' To 25' Above Floor, Add	22.13	
			For Elevated Installation >25' To 30' Above Floor, Add	30.98	
			For Elevated Installation >30' To 35' Above Floor, Add	35.40	
			For Elevated Installation >35' To 40' Above Floor, Add	44.26	
			For Elevated Installation >40' Above Floor, Add	48.68	
			For Work In Restricted Working Space, Add	26.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.55	
26 05 33 13-0964	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,029.82	55.53
			For Elevated Installation >10' To 15' Above Floor, Add	11.10	
			For Elevated Installation >15' To 20' Above Floor, Add	22.21	
			For Elevated Installation >20' To 25' Above Floor, Add	27.76	
			For Elevated Installation >25' To 30' Above Floor, Add	38.86	
			For Elevated Installation >30' To 35' Above Floor, Add	44.42	
			For Elevated Installation >35' To 40' Above Floor, Add	55.52	
			For Elevated Installation >40' Above Floor, Add	61.07	
			For Work In Restricted Working Space, Add	33.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	
26 05 33 13-0965	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,233.27	75.64
			For Elevated Installation >10' To 15' Above Floor, Add	15.13	
			For Elevated Installation >15' To 20' Above Floor, Add	30.26	
			For Elevated Installation >20' To 25' Above Floor, Add	37.83	
			For Elevated Installation >25' To 30' Above Floor, Add	52.96	
			For Elevated Installation >30' To 35' Above Floor, Add	60.52	
			For Elevated Installation >35' To 40' Above Floor, Add	75.65	
			For Elevated Installation >40' Above Floor, Add	83.22	
			For Work In Restricted Working Space, Add	45.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.39	
26 05 33 13-0966	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,643.26	111.05
			For Elevated Installation >10' To 15' Above Floor, Add	22.21	
			For Elevated Installation >15' To 20' Above Floor, Add	44.42	
			For Elevated Installation >20' To 25' Above Floor, Add	55.52	
			For Elevated Installation >25' To 30' Above Floor, Add	77.73	
			For Elevated Installation >30' To 35' Above Floor, Add	88.84	
			For Elevated Installation >35' To 40' Above Floor, Add	111.05	
			For Elevated Installation >40' Above Floor, Add	122.15	
			For Work In Restricted Working Space, Add	66.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.63	
26 05 33 13-0967 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fittings (26 05 33 13-0843)					
26 05 33 13-0968	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	103.44	20.12
			For Elevated Installation >10' To 15' Above Floor, Add	4.02	
			For Elevated Installation >15' To 20' Above Floor, Add	8.05	
			For Elevated Installation >20' To 25' Above Floor, Add	10.06	
			For Elevated Installation >25' To 30' Above Floor, Add	14.08	
			For Elevated Installation >30' To 35' Above Floor, Add	16.10	
			For Elevated Installation >35' To 40' Above Floor, Add	20.12	
			For Elevated Installation >40' Above Floor, Add	22.13	
			For Work In Restricted Working Space, Add	12.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-0969	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	127.84	26.55
			For Elevated Installation >10' To 15' Above Floor, Add	5.31	
			For Elevated Installation >15' To 20' Above Floor, Add	10.62	
			For Elevated Installation >20' To 25' Above Floor, Add	13.28	
			For Elevated Installation >25' To 30' Above Floor, Add	18.59	
			For Elevated Installation >30' To 35' Above Floor, Add	21.24	
			For Elevated Installation >35' To 40' Above Floor, Add	26.56	
			For Elevated Installation >40' Above Floor, Add	29.21	
			For Work In Restricted Working Space, Add	15.93	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.93	
26 05 33 13-0970	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	174.48	30.57
			For Elevated Installation >10' To 15' Above Floor, Add	6.12	
			For Elevated Installation >15' To 20' Above Floor, Add	12.23	
			For Elevated Installation >20' To 25' Above Floor, Add	15.29	
			For Elevated Installation >25' To 30' Above Floor, Add	21.41	
			For Elevated Installation >30' To 35' Above Floor, Add	24.46	
			For Elevated Installation >35' To 40' Above Floor, Add	30.58	
			For Elevated Installation >40' Above Floor, Add	33.64	
			For Work In Restricted Working Space, Add	18.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.35	
26 05 33 13-0971	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	277.67	35.41
			For Elevated Installation >10' To 15' Above Floor, Add	7.08	
			For Elevated Installation >15' To 20' Above Floor, Add	14.16	
			For Elevated Installation >20' To 25' Above Floor, Add	17.70	
			For Elevated Installation >25' To 30' Above Floor, Add	24.78	
			For Elevated Installation >30' To 35' Above Floor, Add	28.32	
			For Elevated Installation >35' To 40' Above Floor, Add	35.41	
			For Elevated Installation >40' Above Floor, Add	38.95	
			For Work In Restricted Working Space, Add	21.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.24	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0972	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting	300.13	40.24
		For Elevated Installation >10' To 15' Above Floor, Add	8.05	
		For Elevated Installation >15' To 20' Above Floor, Add	16.09	
		For Elevated Installation >20' To 25' Above Floor, Add	20.12	
		For Elevated Installation >25' To 30' Above Floor, Add	28.16	
		For Elevated Installation >30' To 35' Above Floor, Add	32.19	
		For Elevated Installation >35' To 40' Above Floor, Add	40.24	
		For Elevated Installation >40' Above Floor, Add	44.26	
		For Work In Restricted Working Space, Add	24.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.14	
26 05 33 13-0973	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting	388.56	44.26
		For Elevated Installation >10' To 15' Above Floor, Add	8.85	
		For Elevated Installation >15' To 20' Above Floor, Add	17.70	
		For Elevated Installation >20' To 25' Above Floor, Add	22.13	
		For Elevated Installation >25' To 30' Above Floor, Add	30.98	
		For Elevated Installation >30' To 35' Above Floor, Add	35.40	
		For Elevated Installation >35' To 40' Above Floor, Add	44.26	
		For Elevated Installation >40' Above Floor, Add	48.68	
		For Work In Restricted Working Space, Add	26.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.55	
26 05 33 13-0974	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting	988.90	55.53
		For Elevated Installation >10' To 15' Above Floor, Add	11.10	
		For Elevated Installation >15' To 20' Above Floor, Add	22.21	
		For Elevated Installation >20' To 25' Above Floor, Add	27.76	
		For Elevated Installation >25' To 30' Above Floor, Add	38.86	
		For Elevated Installation >30' To 35' Above Floor, Add	44.42	
		For Elevated Installation >35' To 40' Above Floor, Add	55.52	
		For Elevated Installation >40' Above Floor, Add	61.07	
		For Work In Restricted Working Space, Add	33.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	
26 05 33 13-0975	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting	1,203.42	75.64
		For Elevated Installation >10' To 15' Above Floor, Add	15.13	
		For Elevated Installation >15' To 20' Above Floor, Add	30.26	
		For Elevated Installation >20' To 25' Above Floor, Add	37.83	
		For Elevated Installation >25' To 30' Above Floor, Add	52.96	
		For Elevated Installation >30' To 35' Above Floor, Add	60.52	
		For Elevated Installation >35' To 40' Above Floor, Add	75.65	
		For Elevated Installation >40' Above Floor, Add	83.22	
		For Work In Restricted Working Space, Add	45.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.39	
26 05 33 13-0976	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting	1,643.19	111.05
		For Elevated Installation >10' To 15' Above Floor, Add	22.21	
		For Elevated Installation >15' To 20' Above Floor, Add	44.42	
		For Elevated Installation >20' To 25' Above Floor, Add	55.52	
		For Elevated Installation >25' To 30' Above Floor, Add	77.73	
		For Elevated Installation >30' To 35' Above Floor, Add	88.84	
		For Elevated Installation >35' To 40' Above Floor, Add	111.05	
		For Elevated Installation >40' Above Floor, Add	122.15	
		For Work In Restricted Working Space, Add	66.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.63	
26 05 33 13-0977		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings (26 05 33 13-0843)		
26 05 33 13-0978	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	94.38	20.12
		For Elevated Installation >10' To 15' Above Floor, Add	4.02	
		For Elevated Installation >15' To 20' Above Floor, Add	8.05	
		For Elevated Installation >20' To 25' Above Floor, Add	10.06	
		For Elevated Installation >25' To 30' Above Floor, Add	14.08	
		For Elevated Installation >30' To 35' Above Floor, Add	16.10	
		For Elevated Installation >35' To 40' Above Floor, Add	20.12	
		For Elevated Installation >40' Above Floor, Add	22.13	
		For Work In Restricted Working Space, Add	12.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-0979	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	114.09	26.55
		For Elevated Installation >10' To 15' Above Floor, Add	5.31	
		For Elevated Installation >15' To 20' Above Floor, Add	10.62	
		For Elevated Installation >20' To 25' Above Floor, Add	13.28	
		For Elevated Installation >25' To 30' Above Floor, Add	18.59	
		For Elevated Installation >30' To 35' Above Floor, Add	21.24	
		For Elevated Installation >35' To 40' Above Floor, Add	26.56	
		For Elevated Installation >40' Above Floor, Add	29.21	
		For Work In Restricted Working Space, Add	15.93	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.93	
26 05 33 13-0980	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	134.30	30.57
		For Elevated Installation >10' To 15' Above Floor, Add	6.12	
		For Elevated Installation >15' To 20' Above Floor, Add	12.23	
		For Elevated Installation >20' To 25' Above Floor, Add	15.29	
		For Elevated Installation >25' To 30' Above Floor, Add	21.41	
		For Elevated Installation >30' To 35' Above Floor, Add	24.46	
		For Elevated Installation >35' To 40' Above Floor, Add	30.58	
		For Elevated Installation >40' Above Floor, Add	33.64	
		For Work In Restricted Working Space, Add	18.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0981	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.25 7.08 14.16 17.70 24.78 28.32 35.41 38.95 21.24 21.24	35.41
26 05 33 13-0982	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.24 8.05 16.09 20.12 28.16 32.19 40.24 44.26 24.14 24.14	40.24
26 05 33 13-0983	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	329.38 8.85 17.70 22.13 30.98 35.40 44.26 48.68 26.55 26.55	44.26
26 05 33 13-0984	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	874.93 11.10 22.21 27.76 38.86 44.42 55.52 61.07 33.31 33.31	55.53
26 05 33 13-0985	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	990.55 15.13 30.26 37.83 52.96 60.52 75.65 83.22 45.39 45.39	75.64
26 05 33 13-0986	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,271.25 22.21 44.42 55.52 77.73 88.84 111.05 122.15 66.63 66.63	111.05
26 05 33 13-0987			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0984)		
26 05 33 13-0988	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	154.97 4.02 8.05 10.06 14.08 16.10 20.12 22.13 12.07 12.07	20.12
26 05 33 13-0989	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	231.92 5.31 10.62 13.28 18.59 21.24 26.56 29.21 15.93 15.93	26.55

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0990	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting.....		290.34	30.57
		For Elevated Installation >10' To 15' Above Floor, Add		6.12	
		For Elevated Installation >15' To 20' Above Floor, Add		12.23	
		For Elevated Installation >20' To 25' Above Floor, Add		15.29	
		For Elevated Installation >25' To 30' Above Floor, Add		21.41	
		For Elevated Installation >30' To 35' Above Floor, Add		24.46	
		For Elevated Installation >35' To 40' Above Floor, Add		30.58	
		For Elevated Installation >40' Above Floor, Add		33.64	
		For Work In Restricted Working Space, Add		18.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		18.35	
26 05 33 13-0991	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting.....		335.19	35.41
		For Elevated Installation >10' To 15' Above Floor, Add		7.08	
		For Elevated Installation >15' To 20' Above Floor, Add		14.16	
		For Elevated Installation >20' To 25' Above Floor, Add		17.70	
		For Elevated Installation >25' To 30' Above Floor, Add		24.78	
		For Elevated Installation >30' To 35' Above Floor, Add		28.32	
		For Elevated Installation >35' To 40' Above Floor, Add		35.41	
		For Elevated Installation >40' Above Floor, Add		38.95	
		For Work In Restricted Working Space, Add		21.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		21.24	
26 05 33 13-0992	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting.....		380.69	40.24
		For Elevated Installation >10' To 15' Above Floor, Add		8.05	
		For Elevated Installation >15' To 20' Above Floor, Add		16.09	
		For Elevated Installation >20' To 25' Above Floor, Add		20.12	
		For Elevated Installation >25' To 30' Above Floor, Add		28.16	
		For Elevated Installation >30' To 35' Above Floor, Add		32.19	
		For Elevated Installation >35' To 40' Above Floor, Add		40.24	
		For Elevated Installation >40' Above Floor, Add		44.26	
		For Work In Restricted Working Space, Add		24.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		24.14	
26 05 33 13-0993	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting.....		497.19	44.26
		For Elevated Installation >10' To 15' Above Floor, Add		8.85	
		For Elevated Installation >15' To 20' Above Floor, Add		17.70	
		For Elevated Installation >20' To 25' Above Floor, Add		22.13	
		For Elevated Installation >25' To 30' Above Floor, Add		30.98	
		For Elevated Installation >30' To 35' Above Floor, Add		35.40	
		For Elevated Installation >35' To 40' Above Floor, Add		44.26	
		For Elevated Installation >40' Above Floor, Add		48.68	
		For Work In Restricted Working Space, Add		26.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		26.55	
26 05 33 13-0994	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting.....		1,527.98	55.53
		For Elevated Installation >10' To 15' Above Floor, Add		11.10	
		For Elevated Installation >15' To 20' Above Floor, Add		22.21	
		For Elevated Installation >20' To 25' Above Floor, Add		27.76	
		For Elevated Installation >25' To 30' Above Floor, Add		38.86	
		For Elevated Installation >30' To 35' Above Floor, Add		44.42	
		For Elevated Installation >35' To 40' Above Floor, Add		55.52	
		For Elevated Installation >40' Above Floor, Add		61.07	
		For Work In Restricted Working Space, Add		33.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		33.31	
26 05 33 13-0995	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting.....		1,788.85	75.64
		For Elevated Installation >10' To 15' Above Floor, Add		15.13	
		For Elevated Installation >15' To 20' Above Floor, Add		30.26	
		For Elevated Installation >20' To 25' Above Floor, Add		37.83	
		For Elevated Installation >25' To 30' Above Floor, Add		52.96	
		For Elevated Installation >30' To 35' Above Floor, Add		60.52	
		For Elevated Installation >35' To 40' Above Floor, Add		75.65	
		For Elevated Installation >40' Above Floor, Add		83.22	
		For Work In Restricted Working Space, Add		45.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		45.39	
26 05 33 13-0996	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded			
		Sealtight Fitting.....		2,207.29	111.05
		For Elevated Installation >10' To 15' Above Floor, Add		22.21	
		For Elevated Installation >15' To 20' Above Floor, Add		44.42	
		For Elevated Installation >20' To 25' Above Floor, Add		55.52	
		For Elevated Installation >25' To 30' Above Floor, Add		77.73	
		For Elevated Installation >30' To 35' Above Floor, Add		88.84	
		For Elevated Installation >35' To 40' Above Floor, Add		111.05	
		For Elevated Installation >40' Above Floor, Add		122.15	
		For Work In Restricted Working Space, Add		66.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		66.63	

26 05 33 13-0997 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings (26 05 33 13-0843)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0998	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	171.05	20.12
			For Elevated Installation >10' To 15' Above Floor, Add	4.02	
			For Elevated Installation >15' To 20' Above Floor, Add	8.05	
			For Elevated Installation >20' To 25' Above Floor, Add	10.06	
			For Elevated Installation >25' To 30' Above Floor, Add	14.08	
			For Elevated Installation >30' To 35' Above Floor, Add	16.10	
			For Elevated Installation >35' To 40' Above Floor, Add	20.12	
			For Elevated Installation >40' Above Floor, Add	22.13	
			For Work In Restricted Working Space, Add	12.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-0999	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	247.10	26.55
			For Elevated Installation >10' To 15' Above Floor, Add	5.31	
			For Elevated Installation >15' To 20' Above Floor, Add	10.62	
			For Elevated Installation >20' To 25' Above Floor, Add	13.28	
			For Elevated Installation >25' To 30' Above Floor, Add	18.59	
			For Elevated Installation >30' To 35' Above Floor, Add	21.24	
			For Elevated Installation >35' To 40' Above Floor, Add	26.56	
			For Elevated Installation >40' Above Floor, Add	29.21	
			For Work In Restricted Working Space, Add	15.93	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.93	
26 05 33 13-1000	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	293.23	30.57
			For Elevated Installation >10' To 15' Above Floor, Add	6.12	
			For Elevated Installation >15' To 20' Above Floor, Add	12.23	
			For Elevated Installation >20' To 25' Above Floor, Add	15.29	
			For Elevated Installation >25' To 30' Above Floor, Add	21.41	
			For Elevated Installation >30' To 35' Above Floor, Add	24.46	
			For Elevated Installation >35' To 40' Above Floor, Add	30.58	
			For Elevated Installation >40' Above Floor, Add	33.64	
			For Work In Restricted Working Space, Add	18.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.35	
26 05 33 13-1001	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	339.95	35.41
			For Elevated Installation >10' To 15' Above Floor, Add	7.08	
			For Elevated Installation >15' To 20' Above Floor, Add	14.16	
			For Elevated Installation >20' To 25' Above Floor, Add	17.70	
			For Elevated Installation >25' To 30' Above Floor, Add	24.78	
			For Elevated Installation >30' To 35' Above Floor, Add	28.32	
			For Elevated Installation >35' To 40' Above Floor, Add	35.41	
			For Elevated Installation >40' Above Floor, Add	38.95	
			For Work In Restricted Working Space, Add	21.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.24	
26 05 33 13-1002	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	393.74	40.24
			For Elevated Installation >10' To 15' Above Floor, Add	8.05	
			For Elevated Installation >15' To 20' Above Floor, Add	16.09	
			For Elevated Installation >20' To 25' Above Floor, Add	20.12	
			For Elevated Installation >25' To 30' Above Floor, Add	28.16	
			For Elevated Installation >30' To 35' Above Floor, Add	32.19	
			For Elevated Installation >35' To 40' Above Floor, Add	40.24	
			For Elevated Installation >40' Above Floor, Add	44.26	
			For Work In Restricted Working Space, Add	24.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.14	
26 05 33 13-1003	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	611.95	44.26
			For Elevated Installation >10' To 15' Above Floor, Add	8.85	
			For Elevated Installation >15' To 20' Above Floor, Add	17.70	
			For Elevated Installation >20' To 25' Above Floor, Add	22.13	
			For Elevated Installation >25' To 30' Above Floor, Add	30.98	
			For Elevated Installation >30' To 35' Above Floor, Add	35.40	
			For Elevated Installation >35' To 40' Above Floor, Add	44.26	
			For Elevated Installation >40' Above Floor, Add	48.68	
			For Work In Restricted Working Space, Add	26.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.55	
26 05 33 13-1004	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,701.13	55.53
			For Elevated Installation >10' To 15' Above Floor, Add	11.10	
			For Elevated Installation >15' To 20' Above Floor, Add	22.21	
			For Elevated Installation >20' To 25' Above Floor, Add	27.76	
			For Elevated Installation >25' To 30' Above Floor, Add	38.86	
			For Elevated Installation >30' To 35' Above Floor, Add	44.42	
			For Elevated Installation >35' To 40' Above Floor, Add	55.52	
			For Elevated Installation >40' Above Floor, Add	61.07	
			For Work In Restricted Working Space, Add	33.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1005 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,393.35	75.64
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.83	
For Elevated Installation >25' To 30' Above Floor, Add	52.96	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.22	
For Work In Restricted Working Space, Add	45.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.39	
26 05 33 13-1006 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,513.31	111.05
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.52	
For Elevated Installation >25' To 30' Above Floor, Add	77.73	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.15	
For Work In Restricted Working Space, Add	66.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.63	
26 05 33 13-1007 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings (26 05 33 13-0843)		
26 05 33 13-1008 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	137.25	20.12
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.05	
For Elevated Installation >20' To 25' Above Floor, Add	10.06	
For Elevated Installation >25' To 30' Above Floor, Add	14.08	
For Elevated Installation >30' To 35' Above Floor, Add	16.10	
For Elevated Installation >35' To 40' Above Floor, Add	20.12	
For Elevated Installation >40' Above Floor, Add	22.13	
For Work In Restricted Working Space, Add	12.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1009 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	173.69	26.55
For Elevated Installation >10' To 15' Above Floor, Add	5.31	
For Elevated Installation >15' To 20' Above Floor, Add	10.62	
For Elevated Installation >20' To 25' Above Floor, Add	13.28	
For Elevated Installation >25' To 30' Above Floor, Add	18.59	
For Elevated Installation >30' To 35' Above Floor, Add	21.24	
For Elevated Installation >35' To 40' Above Floor, Add	26.56	
For Elevated Installation >40' Above Floor, Add	29.21	
For Work In Restricted Working Space, Add	15.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.93	
26 05 33 13-1010 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	207.55	30.57
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
For Work In Restricted Working Space, Add	18.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.35	
26 05 33 13-1011 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	230.65	35.41
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
For Work In Restricted Working Space, Add	21.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.24	
26 05 33 13-1012 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	307.32	40.24
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Work In Restricted Working Space, Add	24.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.14	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1013	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	428.79	44.26
			For Elevated Installation >10' To 15' Above Floor, Add	8.65	
			For Elevated Installation >15' To 20' Above Floor, Add	17.70	
			For Elevated Installation >20' To 25' Above Floor, Add	22.13	
			For Elevated Installation >25' To 30' Above Floor, Add	30.98	
			For Elevated Installation >30' To 35' Above Floor, Add	35.40	
			For Elevated Installation >35' To 40' Above Floor, Add	44.26	
			For Elevated Installation >40' Above Floor, Add	48.68	
			For Work In Restricted Working Space, Add	26.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.55	
26 05 33 13-1014	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,384.57	55.53
			For Elevated Installation >10' To 15' Above Floor, Add	11.10	
			For Elevated Installation >15' To 20' Above Floor, Add	22.21	
			For Elevated Installation >20' To 25' Above Floor, Add	27.76	
			For Elevated Installation >25' To 30' Above Floor, Add	38.86	
			For Elevated Installation >30' To 35' Above Floor, Add	44.42	
			For Elevated Installation >35' To 40' Above Floor, Add	55.52	
			For Elevated Installation >40' Above Floor, Add	61.07	
			For Work In Restricted Working Space, Add	33.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	
26 05 33 13-1015	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,564.61	75.64
			For Elevated Installation >10' To 15' Above Floor, Add	15.13	
			For Elevated Installation >15' To 20' Above Floor, Add	30.26	
			For Elevated Installation >20' To 25' Above Floor, Add	37.83	
			For Elevated Installation >25' To 30' Above Floor, Add	52.96	
			For Elevated Installation >30' To 35' Above Floor, Add	60.52	
			For Elevated Installation >35' To 40' Above Floor, Add	75.65	
			For Elevated Installation >40' Above Floor, Add	83.22	
			For Work In Restricted Working Space, Add	45.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.39	
26 05 33 13-1016	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,868.72	111.05
			For Elevated Installation >10' To 15' Above Floor, Add	22.21	
			For Elevated Installation >15' To 20' Above Floor, Add	44.42	
			For Elevated Installation >20' To 25' Above Floor, Add	55.52	
			For Elevated Installation >25' To 30' Above Floor, Add	77.73	
			For Elevated Installation >30' To 35' Above Floor, Add	88.84	
			For Elevated Installation >35' To 40' Above Floor, Add	111.05	
			For Elevated Installation >40' Above Floor, Add	122.15	
			For Work In Restricted Working Space, Add	66.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.63	
26 05 33 13-1017			Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0843) Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1018	EA		1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	133.29	38.62
			For Elevated Installation >10' To 15' Above Floor, Add	7.73	
			For Elevated Installation >15' To 20' Above Floor, Add	15.45	
			For Elevated Installation >20' To 25' Above Floor, Add	19.31	
			For Elevated Installation >25' To 30' Above Floor, Add	27.04	
			For Elevated Installation >30' To 35' Above Floor, Add	30.90	
			For Elevated Installation >35' To 40' Above Floor, Add	38.63	
			For Elevated Installation >40' Above Floor, Add	42.49	
			For Work In Restricted Working Space, Add	23.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	
26 05 33 13-1019	EA		3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	150.65	44.26
			For Elevated Installation >10' To 15' Above Floor, Add	8.85	
			For Elevated Installation >15' To 20' Above Floor, Add	17.70	
			For Elevated Installation >20' To 25' Above Floor, Add	22.13	
			For Elevated Installation >25' To 30' Above Floor, Add	30.98	
			For Elevated Installation >30' To 35' Above Floor, Add	35.40	
			For Elevated Installation >35' To 40' Above Floor, Add	44.26	
			For Elevated Installation >40' Above Floor, Add	48.68	
			For Work In Restricted Working Space, Add	26.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.55	
26 05 33 13-1020	EA		1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	184.54	50.69
			For Elevated Installation >10' To 15' Above Floor, Add	10.14	
			For Elevated Installation >15' To 20' Above Floor, Add	20.28	
			For Elevated Installation >20' To 25' Above Floor, Add	25.35	
			For Elevated Installation >25' To 30' Above Floor, Add	35.49	
			For Elevated Installation >30' To 35' Above Floor, Add	40.56	
			For Elevated Installation >35' To 40' Above Floor, Add	50.70	
			For Elevated Installation >40' Above Floor, Add	55.77	
			For Work In Restricted Working Space, Add	30.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1021	EA	1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover		238.17	58.74
		For Elevated Installation >10' To 15' Above Floor, Add		11.75	
		For Elevated Installation >15' To 20' Above Floor, Add		23.50	
		For Elevated Installation >20' To 25' Above Floor, Add		29.37	
		For Elevated Installation >25' To 30' Above Floor, Add		41.12	
		For Elevated Installation >30' To 35' Above Floor, Add		46.99	
		For Elevated Installation >35' To 40' Above Floor, Add		58.74	
		For Elevated Installation >40' Above Floor, Add		64.61	
		For Work In Restricted Working Space, Add		35.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		35.24	
26 05 33 13-1022	EA	2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover		276.13	64.38
		For Elevated Installation >10' To 15' Above Floor, Add		12.88	
		For Elevated Installation >15' To 20' Above Floor, Add		25.75	
		For Elevated Installation >20' To 25' Above Floor, Add		32.19	
		For Elevated Installation >25' To 30' Above Floor, Add		45.06	
		For Elevated Installation >30' To 35' Above Floor, Add		51.50	
		For Elevated Installation >35' To 40' Above Floor, Add		64.38	
		For Elevated Installation >40' Above Floor, Add		70.81	
		For Work In Restricted Working Space, Add		38.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		38.63	
26 05 33 13-1023	EA	2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover		371.79	77.25
		For Elevated Installation >10' To 15' Above Floor, Add		15.45	
		For Elevated Installation >15' To 20' Above Floor, Add		30.90	
		For Elevated Installation >20' To 25' Above Floor, Add		38.63	
		For Elevated Installation >25' To 30' Above Floor, Add		54.08	
		For Elevated Installation >30' To 35' Above Floor, Add		61.80	
		For Elevated Installation >35' To 40' Above Floor, Add		77.26	
		For Elevated Installation >40' Above Floor, Add		84.98	
		For Work In Restricted Working Space, Add		46.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		46.35	
26 05 33 13-1024	EA	2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover		616.03	108.63
		For Elevated Installation >10' To 15' Above Floor, Add		21.73	
		For Elevated Installation >15' To 20' Above Floor, Add		43.46	
		For Elevated Installation >20' To 25' Above Floor, Add		54.32	
		For Elevated Installation >25' To 30' Above Floor, Add		76.05	
		For Elevated Installation >30' To 35' Above Floor, Add		86.91	
		For Elevated Installation >35' To 40' Above Floor, Add		108.64	
		For Elevated Installation >40' Above Floor, Add		119.50	
		For Work In Restricted Working Space, Add		65.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		65.18	
26 05 33 13-1025	EA	3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover		791.31	144.84
		For Elevated Installation >10' To 15' Above Floor, Add		28.97	
		For Elevated Installation >15' To 20' Above Floor, Add		57.94	
		For Elevated Installation >20' To 25' Above Floor, Add		72.43	
		For Elevated Installation >25' To 30' Above Floor, Add		101.40	
		For Elevated Installation >30' To 35' Above Floor, Add		115.88	
		For Elevated Installation >35' To 40' Above Floor, Add		144.86	
		For Elevated Installation >40' Above Floor, Add		159.34	
		For Work In Restricted Working Space, Add		86.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		86.91	
26 05 33 13-1026	EA	3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover		1,090.88	181.06
		For Elevated Installation >10' To 15' Above Floor, Add		36.21	
		For Elevated Installation >15' To 20' Above Floor, Add		72.42	
		For Elevated Installation >20' To 25' Above Floor, Add		90.53	
		For Elevated Installation >25' To 30' Above Floor, Add		126.74	
		For Elevated Installation >30' To 35' Above Floor, Add		144.84	
		For Elevated Installation >35' To 40' Above Floor, Add		181.06	
		For Elevated Installation >40' Above Floor, Add		199.16	
		For Work In Restricted Working Space, Add		108.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		108.63	
26 05 33 13-1027	EA	4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover		1,257.88	220.49
		For Elevated Installation >10' To 15' Above Floor, Add		44.10	
		For Elevated Installation >15' To 20' Above Floor, Add		88.20	
		For Elevated Installation >20' To 25' Above Floor, Add		110.25	
		For Elevated Installation >25' To 30' Above Floor, Add		154.34	
		For Elevated Installation >30' To 35' Above Floor, Add		176.39	
		For Elevated Installation >35' To 40' Above Floor, Add		220.49	
		For Elevated Installation >40' Above Floor, Add		242.54	
		For Work In Restricted Working Space, Add		132.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		132.29	

26 05 33 13-1028 Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover

(26 05 33 13-0843)

Note: Suitable for use in hazardous locations. Class I, Div 2.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1029	EA	1/2"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.25 10.14 20.28 25.35 35.49 40.56 50.70 55.76 30.42 30.42	50.69
26 05 33 13-1030	EA	3/4"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	197.96 11.27 22.53 28.16 39.43 45.06 56.33 61.96 33.80 33.80	56.33
26 05 33 13-1031	EA	1"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	238.83 12.39 24.78 30.98 43.37 49.57 61.96 68.16 37.18 37.18	61.96
26 05 33 13-1032	EA	1-1/4"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	315.74 14.16 28.32 35.41 49.57 56.65 70.81 77.89 42.49 42.49	70.81
26 05 33 13-1033	EA	1-1/2"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	370.34 15.45 30.90 38.63 54.08 61.80 77.26 84.98 46.35 46.35	77.25
26 05 33 13-1034	EA	2"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	499.92 18.99 37.98 47.48 66.47 75.96 94.96 104.45 56.97 56.97	94.95
26 05 33 13-1035			Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0843) Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1036	EA	1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.20 8.85 17.70 22.13 30.98 35.41 44.26 48.69 26.56 26.56	44.26
26 05 33 13-1037	EA	3/4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.23 10.30 20.60 25.75 36.05 41.20 51.50 56.65 30.90 30.90	51.51

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1038 EA 1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	209.43	56.33
For Elevated Installation >10' To 15' Above Floor, Add	11.27	
For Elevated Installation >15' To 20' Above Floor, Add	22.53	
For Elevated Installation >20' To 25' Above Floor, Add	28.16	
For Elevated Installation >25' To 30' Above Floor, Add	39.43	
For Elevated Installation >30' To 35' Above Floor, Add	45.06	
For Elevated Installation >35' To 40' Above Floor, Add	56.33	
For Elevated Installation >40' Above Floor, Add	61.96	
For Work In Restricted Working Space, Add	33.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.80	
26 05 33 13-1039 EA 1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	265.00	64.38
For Elevated Installation >10' To 15' Above Floor, Add	12.88	
For Elevated Installation >15' To 20' Above Floor, Add	25.75	
For Elevated Installation >20' To 25' Above Floor, Add	32.19	
For Elevated Installation >25' To 30' Above Floor, Add	45.07	
For Elevated Installation >30' To 35' Above Floor, Add	51.50	
For Elevated Installation >35' To 40' Above Floor, Add	64.38	
For Elevated Installation >40' Above Floor, Add	70.82	
For Work In Restricted Working Space, Add	38.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.63	
26 05 33 13-1040 EA 1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	311.77	70.81
For Elevated Installation >10' To 15' Above Floor, Add	14.16	
For Elevated Installation >15' To 20' Above Floor, Add	28.33	
For Elevated Installation >20' To 25' Above Floor, Add	35.41	
For Elevated Installation >25' To 30' Above Floor, Add	49.57	
For Elevated Installation >30' To 35' Above Floor, Add	56.65	
For Elevated Installation >35' To 40' Above Floor, Add	70.82	
For Elevated Installation >40' Above Floor, Add	77.90	
For Work In Restricted Working Space, Add	42.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.49	
26 05 33 13-1041 EA 2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	412.83	82.88
For Elevated Installation >10' To 15' Above Floor, Add	16.58	
For Elevated Installation >15' To 20' Above Floor, Add	33.15	
For Elevated Installation >20' To 25' Above Floor, Add	41.44	
For Elevated Installation >25' To 30' Above Floor, Add	58.02	
For Elevated Installation >30' To 35' Above Floor, Add	66.30	
For Elevated Installation >35' To 40' Above Floor, Add	82.88	
For Elevated Installation >40' Above Floor, Add	91.17	
For Work In Restricted Working Space, Add	49.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.73	
26 05 33 13-1042 EA 2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	658.76	120.70
For Elevated Installation >10' To 15' Above Floor, Add	24.14	
For Elevated Installation >15' To 20' Above Floor, Add	48.28	
For Elevated Installation >20' To 25' Above Floor, Add	60.35	
For Elevated Installation >25' To 30' Above Floor, Add	84.49	
For Elevated Installation >30' To 35' Above Floor, Add	96.56	
For Elevated Installation >35' To 40' Above Floor, Add	120.71	
For Elevated Installation >40' Above Floor, Add	132.78	
For Work In Restricted Working Space, Add	72.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.42	
26 05 33 13-1043 EA 3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	870.75	156.91
For Elevated Installation >10' To 15' Above Floor, Add	31.38	
For Elevated Installation >15' To 20' Above Floor, Add	62.77	
For Elevated Installation >20' To 25' Above Floor, Add	78.46	
For Elevated Installation >25' To 30' Above Floor, Add	109.84	
For Elevated Installation >30' To 35' Above Floor, Add	125.53	
For Elevated Installation >35' To 40' Above Floor, Add	156.92	
For Elevated Installation >40' Above Floor, Add	172.61	
For Work In Restricted Working Space, Add	94.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.15	
26 05 33 13-1044 EA 3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,186.72	193.13
For Elevated Installation >10' To 15' Above Floor, Add	38.63	
For Elevated Installation >15' To 20' Above Floor, Add	77.25	
For Elevated Installation >20' To 25' Above Floor, Add	96.56	
For Elevated Installation >25' To 30' Above Floor, Add	135.19	
For Elevated Installation >30' To 35' Above Floor, Add	154.50	
For Elevated Installation >35' To 40' Above Floor, Add	193.13	
For Elevated Installation >40' Above Floor, Add	212.44	
For Work In Restricted Working Space, Add	115.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	115.88	
26 05 33 13-1045 EA 4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,333.54	232.56
For Elevated Installation >10' To 15' Above Floor, Add	46.51	
For Elevated Installation >15' To 20' Above Floor, Add	93.03	
For Elevated Installation >20' To 25' Above Floor, Add	116.28	
For Elevated Installation >25' To 30' Above Floor, Add	162.80	
For Elevated Installation >30' To 35' Above Floor, Add	186.05	
For Elevated Installation >35' To 40' Above Floor, Add	232.57	
For Elevated Installation >40' Above Floor, Add	255.82	
For Work In Restricted Working Space, Add	139.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.54	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1046		Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined (26 05 33 13-0843)		
26 05 33 13-1047	EA	1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	29.52	4.83
		For Elevated Installation >10' To 15' Above Floor, Add	0.97	
		For Elevated Installation >15' To 20' Above Floor, Add	1.93	
		For Elevated Installation >20' To 25' Above Floor, Add	2.41	
		For Elevated Installation >25' To 30' Above Floor, Add	3.38	
		For Elevated Installation >30' To 35' Above Floor, Add	3.86	
		For Elevated Installation >35' To 40' Above Floor, Add	4.83	
		For Elevated Installation >40' Above Floor, Add	5.31	
		For Work In Restricted Working Space, Add	2.90	
26 05 33 13-1048	EA	3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	33.22	5.63
		For Elevated Installation >10' To 15' Above Floor, Add	1.13	
		For Elevated Installation >15' To 20' Above Floor, Add	2.25	
		For Elevated Installation >20' To 25' Above Floor, Add	2.82	
		For Elevated Installation >25' To 30' Above Floor, Add	3.94	
		For Elevated Installation >30' To 35' Above Floor, Add	4.51	
		For Elevated Installation >35' To 40' Above Floor, Add	5.64	
		For Elevated Installation >40' Above Floor, Add	6.20	
		For Work In Restricted Working Space, Add	3.38	
26 05 33 13-1049	EA	1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	43.28	7.24
		For Elevated Installation >10' To 15' Above Floor, Add	1.45	
		For Elevated Installation >15' To 20' Above Floor, Add	2.90	
		For Elevated Installation >20' To 25' Above Floor, Add	3.62	
		For Elevated Installation >25' To 30' Above Floor, Add	5.07	
		For Elevated Installation >30' To 35' Above Floor, Add	5.80	
		For Elevated Installation >35' To 40' Above Floor, Add	7.25	
		For Elevated Installation >40' Above Floor, Add	7.97	
		For Work In Restricted Working Space, Add	4.35	
26 05 33 13-1050	EA	1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	55.46	8.85
		For Elevated Installation >10' To 15' Above Floor, Add	1.77	
		For Elevated Installation >15' To 20' Above Floor, Add	3.54	
		For Elevated Installation >20' To 25' Above Floor, Add	4.43	
		For Elevated Installation >25' To 30' Above Floor, Add	6.20	
		For Elevated Installation >30' To 35' Above Floor, Add	7.08	
		For Elevated Installation >35' To 40' Above Floor, Add	8.85	
		For Elevated Installation >40' Above Floor, Add	9.74	
		For Work In Restricted Working Space, Add	5.31	
26 05 33 13-1051	EA	1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	62.33	10.47
		For Elevated Installation >10' To 15' Above Floor, Add	2.09	
		For Elevated Installation >15' To 20' Above Floor, Add	4.18	
		For Elevated Installation >20' To 25' Above Floor, Add	5.23	
		For Elevated Installation >25' To 30' Above Floor, Add	7.32	
		For Elevated Installation >30' To 35' Above Floor, Add	8.37	
		For Elevated Installation >35' To 40' Above Floor, Add	10.46	
		For Elevated Installation >40' Above Floor, Add	11.51	
		For Work In Restricted Working Space, Add	6.28	
26 05 33 13-1052	EA	2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	76.78	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	
26 05 33 13-1053	EA	2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	98.53	13.68
		For Elevated Installation >10' To 15' Above Floor, Add	2.74	
		For Elevated Installation >15' To 20' Above Floor, Add	5.47	
		For Elevated Installation >20' To 25' Above Floor, Add	6.84	
		For Elevated Installation >25' To 30' Above Floor, Add	9.58	
		For Elevated Installation >30' To 35' Above Floor, Add	10.94	
		For Elevated Installation >35' To 40' Above Floor, Add	13.68	
		For Elevated Installation >40' Above Floor, Add	15.05	
		For Work In Restricted Working Space, Add	8.21	
26 05 33 13-1054	EA	3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	109.79	19.32
		For Elevated Installation >10' To 15' Above Floor, Add	3.86	
		For Elevated Installation >15' To 20' Above Floor, Add	7.72	
		For Elevated Installation >20' To 25' Above Floor, Add	9.66	
		For Elevated Installation >25' To 30' Above Floor, Add	13.52	
		For Elevated Installation >30' To 35' Above Floor, Add	15.45	
		For Elevated Installation >35' To 40' Above Floor, Add	19.31	
		For Elevated Installation >40' Above Floor, Add	21.24	
		For Work In Restricted Working Space, Add	11.59	
26 05 33 13-1055	EA	3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	132.70	21.72
		For Elevated Installation >10' To 15' Above Floor, Add	4.35	
		For Elevated Installation >15' To 20' Above Floor, Add	8.69	
		For Elevated Installation >20' To 25' Above Floor, Add	10.87	
		For Elevated Installation >25' To 30' Above Floor, Add	15.21	
		For Elevated Installation >30' To 35' Above Floor, Add	17.38	
		For Elevated Installation >35' To 40' Above Floor, Add	21.73	
		For Elevated Installation >40' Above Floor, Add	23.90	
		For Work In Restricted Working Space, Add	13.04	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1056 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	143.96	27.36
For Elevated Installation >10' To 15' Above Floor, Add	5.47	
For Elevated Installation >15' To 20' Above Floor, Add	10.94	
For Elevated Installation >20' To 25' Above Floor, Add	13.68	
For Elevated Installation >25' To 30' Above Floor, Add	19.15	
For Elevated Installation >30' To 35' Above Floor, Add	21.89	
For Elevated Installation >35' To 40' Above Floor, Add	27.36	
For Elevated Installation >40' Above Floor, Add	30.10	
For Work In Restricted Working Space, Add	16.42	
26 05 33 13-1057 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies (26 05 33 13-0843)		
26 05 33 13-1058 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	148.35	38.62
For Elevated Installation >10' To 15' Above Floor, Add	7.73	
For Elevated Installation >15' To 20' Above Floor, Add	15.45	
For Elevated Installation >20' To 25' Above Floor, Add	19.31	
For Elevated Installation >25' To 30' Above Floor, Add	27.04	
For Elevated Installation >30' To 35' Above Floor, Add	30.90	
For Elevated Installation >35' To 40' Above Floor, Add	38.63	
For Elevated Installation >40' Above Floor, Add	42.49	
For Work In Restricted Working Space, Add	23.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	
26 05 33 13-1059 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	164.98	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.56	
26 05 33 13-1060 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	192.24	50.69
For Elevated Installation >10' To 15' Above Floor, Add	10.14	
For Elevated Installation >15' To 20' Above Floor, Add	20.28	
For Elevated Installation >20' To 25' Above Floor, Add	25.35	
For Elevated Installation >25' To 30' Above Floor, Add	35.49	
For Elevated Installation >30' To 35' Above Floor, Add	40.56	
For Elevated Installation >35' To 40' Above Floor, Add	50.70	
For Elevated Installation >40' Above Floor, Add	55.77	
For Work In Restricted Working Space, Add	30.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.42	
26 05 33 13-1061 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	227.51	58.74
For Elevated Installation >10' To 15' Above Floor, Add	11.75	
For Elevated Installation >15' To 20' Above Floor, Add	23.50	
For Elevated Installation >20' To 25' Above Floor, Add	29.37	
For Elevated Installation >25' To 30' Above Floor, Add	41.12	
For Elevated Installation >30' To 35' Above Floor, Add	47.00	
For Elevated Installation >35' To 40' Above Floor, Add	58.75	
For Elevated Installation >40' Above Floor, Add	64.62	
For Work In Restricted Working Space, Add	35.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.25	
26 05 33 13-1062 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	279.14	64.38
For Elevated Installation >10' To 15' Above Floor, Add	12.88	
For Elevated Installation >15' To 20' Above Floor, Add	25.75	
For Elevated Installation >20' To 25' Above Floor, Add	32.19	
For Elevated Installation >25' To 30' Above Floor, Add	45.07	
For Elevated Installation >30' To 35' Above Floor, Add	51.50	
For Elevated Installation >35' To 40' Above Floor, Add	64.38	
For Elevated Installation >40' Above Floor, Add	70.82	
For Work In Restricted Working Space, Add	38.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.63	
26 05 33 13-1063 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	337.94	77.25
For Elevated Installation >10' To 15' Above Floor, Add	15.45	
For Elevated Installation >15' To 20' Above Floor, Add	30.90	
For Elevated Installation >20' To 25' Above Floor, Add	38.63	
For Elevated Installation >25' To 30' Above Floor, Add	54.08	
For Elevated Installation >30' To 35' Above Floor, Add	61.80	
For Elevated Installation >35' To 40' Above Floor, Add	77.26	
For Elevated Installation >40' Above Floor, Add	84.98	
For Work In Restricted Working Space, Add	46.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.35	
26 05 33 13-1064 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	487.88	108.63
For Elevated Installation >10' To 15' Above Floor, Add	21.73	
For Elevated Installation >15' To 20' Above Floor, Add	43.45	
For Elevated Installation >20' To 25' Above Floor, Add	54.32	
For Elevated Installation >25' To 30' Above Floor, Add	76.04	
For Elevated Installation >30' To 35' Above Floor, Add	86.91	
For Elevated Installation >35' To 40' Above Floor, Add	108.64	
For Elevated Installation >40' Above Floor, Add	119.50	
For Work In Restricted Working Space, Add	65.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.18	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1065	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	628.15	144.84
		For Elevated Installation >10' To 15' Above Floor, Add	28.97	
		For Elevated Installation >15' To 20' Above Floor, Add	57.94	
		For Elevated Installation >20' To 25' Above Floor, Add	72.42	
		For Elevated Installation >25' To 30' Above Floor, Add	101.39	
		For Elevated Installation >30' To 35' Above Floor, Add	115.88	
		For Elevated Installation >35' To 40' Above Floor, Add	144.85	
		For Elevated Installation >40' Above Floor, Add	159.33	
		For Work In Restricted Working Space, Add	86.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.91	
26 05 33 13-1066	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	1,206.42	181.06
		For Elevated Installation >10' To 15' Above Floor, Add	36.21	
		For Elevated Installation >15' To 20' Above Floor, Add	72.42	
		For Elevated Installation >20' To 25' Above Floor, Add	90.53	
		For Elevated Installation >25' To 30' Above Floor, Add	126.74	
		For Elevated Installation >30' To 35' Above Floor, Add	144.84	
		For Elevated Installation >35' To 40' Above Floor, Add	181.06	
		For Elevated Installation >40' Above Floor, Add	199.16	
		For Work In Restricted Working Space, Add	108.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.63	
26 05 33 13-1067	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,746.10	220.49
		For Elevated Installation >10' To 15' Above Floor, Add	44.10	
		For Elevated Installation >15' To 20' Above Floor, Add	88.20	
		For Elevated Installation >20' To 25' Above Floor, Add	110.25	
		For Elevated Installation >25' To 30' Above Floor, Add	154.34	
		For Elevated Installation >30' To 35' Above Floor, Add	176.39	
		For Elevated Installation >35' To 40' Above Floor, Add	220.49	
		For Elevated Installation >40' Above Floor, Add	242.54	
		For Work In Restricted Working Space, Add	132.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.29	
26 05 33 13-1068		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies (26 05 33 13-0843)		
26 05 33 13-1069	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	240.90	38.62
		For Elevated Installation >10' To 15' Above Floor, Add	7.73	
		For Elevated Installation >15' To 20' Above Floor, Add	15.45	
		For Elevated Installation >20' To 25' Above Floor, Add	19.31	
		For Elevated Installation >25' To 30' Above Floor, Add	27.04	
		For Elevated Installation >30' To 35' Above Floor, Add	30.90	
		For Elevated Installation >35' To 40' Above Floor, Add	38.63	
		For Elevated Installation >40' Above Floor, Add	42.49	
		For Work In Restricted Working Space, Add	23.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	
26 05 33 13-1070	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	260.67	44.26
		For Elevated Installation >10' To 15' Above Floor, Add	8.65	
		For Elevated Installation >15' To 20' Above Floor, Add	17.70	
		For Elevated Installation >20' To 25' Above Floor, Add	22.13	
		For Elevated Installation >25' To 30' Above Floor, Add	30.98	
		For Elevated Installation >30' To 35' Above Floor, Add	35.41	
		For Elevated Installation >35' To 40' Above Floor, Add	44.26	
		For Elevated Installation >40' Above Floor, Add	48.69	
		For Work In Restricted Working Space, Add	26.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.56	
26 05 33 13-1071	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	297.75	50.69
		For Elevated Installation >10' To 15' Above Floor, Add	10.14	
		For Elevated Installation >15' To 20' Above Floor, Add	20.28	
		For Elevated Installation >20' To 25' Above Floor, Add	25.35	
		For Elevated Installation >25' To 30' Above Floor, Add	35.49	
		For Elevated Installation >30' To 35' Above Floor, Add	40.56	
		For Elevated Installation >35' To 40' Above Floor, Add	50.70	
		For Elevated Installation >40' Above Floor, Add	55.77	
		For Work In Restricted Working Space, Add	30.42	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.42	
26 05 33 13-1072	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	334.22	58.74
		For Elevated Installation >10' To 15' Above Floor, Add	11.75	
		For Elevated Installation >15' To 20' Above Floor, Add	23.50	
		For Elevated Installation >20' To 25' Above Floor, Add	29.37	
		For Elevated Installation >25' To 30' Above Floor, Add	41.12	
		For Elevated Installation >30' To 35' Above Floor, Add	47.00	
		For Elevated Installation >35' To 40' Above Floor, Add	58.75	
		For Elevated Installation >40' Above Floor, Add	64.62	
		For Work In Restricted Working Space, Add	35.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.25	
26 05 33 13-1073	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	401.99	64.38
		For Elevated Installation >10' To 15' Above Floor, Add	12.88	
		For Elevated Installation >15' To 20' Above Floor, Add	25.75	
		For Elevated Installation >20' To 25' Above Floor, Add	32.19	
		For Elevated Installation >25' To 30' Above Floor, Add	45.07	
		For Elevated Installation >30' To 35' Above Floor, Add	51.50	
		For Elevated Installation >35' To 40' Above Floor, Add	64.38	
		For Elevated Installation >40' Above Floor, Add	70.82	
		For Work In Restricted Working Space, Add	38.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1074	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	454.79	77.25
		For Elevated Installation >10' To 15' Above Floor, Add	15.45	
		For Elevated Installation >15' To 20' Above Floor, Add	30.90	
		For Elevated Installation >20' To 25' Above Floor, Add	38.63	
		For Elevated Installation >25' To 30' Above Floor, Add	54.08	
		For Elevated Installation >30' To 35' Above Floor, Add	61.80	
		For Elevated Installation >35' To 40' Above Floor, Add	77.26	
		For Elevated Installation >40' Above Floor, Add	84.98	
		For Work In Restricted Working Space, Add	46.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.35	
26 05 33 13-1075	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	639.82	108.63
		For Elevated Installation >10' To 15' Above Floor, Add	21.73	
		For Elevated Installation >15' To 20' Above Floor, Add	43.45	
		For Elevated Installation >20' To 25' Above Floor, Add	54.32	
		For Elevated Installation >25' To 30' Above Floor, Add	76.04	
		For Elevated Installation >30' To 35' Above Floor, Add	86.91	
		For Elevated Installation >35' To 40' Above Floor, Add	108.64	
		For Elevated Installation >40' Above Floor, Add	119.50	
		For Work In Restricted Working Space, Add	65.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.18	
26 05 33 13-1076	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	888.34	144.84
		For Elevated Installation >10' To 15' Above Floor, Add	28.97	
		For Elevated Installation >15' To 20' Above Floor, Add	57.94	
		For Elevated Installation >20' To 25' Above Floor, Add	72.42	
		For Elevated Installation >25' To 30' Above Floor, Add	101.39	
		For Elevated Installation >30' To 35' Above Floor, Add	115.88	
		For Elevated Installation >35' To 40' Above Floor, Add	144.85	
		For Elevated Installation >40' Above Floor, Add	159.33	
		For Work In Restricted Working Space, Add	86.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.91	
26 05 33 13-1077	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	1,281.98	181.06
		For Elevated Installation >10' To 15' Above Floor, Add	36.21	
		For Elevated Installation >15' To 20' Above Floor, Add	72.42	
		For Elevated Installation >20' To 25' Above Floor, Add	90.53	
		For Elevated Installation >25' To 30' Above Floor, Add	126.74	
		For Elevated Installation >30' To 35' Above Floor, Add	144.84	
		For Elevated Installation >35' To 40' Above Floor, Add	181.06	
		For Elevated Installation >40' Above Floor, Add	199.16	
		For Work In Restricted Working Space, Add	108.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.63	
26 05 33 13-1078	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,844.98	220.49
		For Elevated Installation >10' To 15' Above Floor, Add	44.10	
		For Elevated Installation >15' To 20' Above Floor, Add	88.20	
		For Elevated Installation >20' To 25' Above Floor, Add	110.25	
		For Elevated Installation >25' To 30' Above Floor, Add	154.34	
		For Elevated Installation >30' To 35' Above Floor, Add	176.39	
		For Elevated Installation >35' To 40' Above Floor, Add	220.49	
		For Elevated Installation >40' Above Floor, Add	242.54	
		For Work In Restricted Working Space, Add	132.29	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.29	
26 05 33 13-1079		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies (26 05 33 13-0843)		
26 05 33 13-1080	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	196.35	38.62
		For Elevated Installation >10' To 15' Above Floor, Add	7.73	
		For Elevated Installation >15' To 20' Above Floor, Add	15.45	
		For Elevated Installation >20' To 25' Above Floor, Add	19.31	
		For Elevated Installation >25' To 30' Above Floor, Add	27.04	
		For Elevated Installation >30' To 35' Above Floor, Add	30.90	
		For Elevated Installation >35' To 40' Above Floor, Add	38.63	
		For Elevated Installation >40' Above Floor, Add	42.49	
		For Work In Restricted Working Space, Add	23.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	
26 05 33 13-1081	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	210.78	44.26
		For Elevated Installation >10' To 15' Above Floor, Add	8.85	
		For Elevated Installation >15' To 20' Above Floor, Add	17.70	
		For Elevated Installation >20' To 25' Above Floor, Add	22.13	
		For Elevated Installation >25' To 30' Above Floor, Add	30.98	
		For Elevated Installation >30' To 35' Above Floor, Add	35.41	
		For Elevated Installation >35' To 40' Above Floor, Add	44.26	
		For Elevated Installation >40' Above Floor, Add	48.69	
		For Work In Restricted Working Space, Add	26.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.56	
26 05 33 13-1082	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	242.10	50.69
		For Elevated Installation >10' To 15' Above Floor, Add	10.14	
		For Elevated Installation >15' To 20' Above Floor, Add	20.28	
		For Elevated Installation >20' To 25' Above Floor, Add	25.35	
		For Elevated Installation >25' To 30' Above Floor, Add	35.49	
		For Elevated Installation >30' To 35' Above Floor, Add	40.56	
		For Elevated Installation >35' To 40' Above Floor, Add	50.70	
		For Elevated Installation >40' Above Floor, Add	55.77	
		For Work In Restricted Working Space, Add	30.42	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1083	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit		
			Body	271.11	58.74
			For Elevated Installation >10' To 15' Above Floor, Add	11.75	
			For Elevated Installation >15' To 20' Above Floor, Add	23.50	
			For Elevated Installation >20' To 25' Above Floor, Add	29.37	
			For Elevated Installation >25' To 30' Above Floor, Add	41.12	
			For Elevated Installation >30' To 35' Above Floor, Add	47.00	
			For Elevated Installation >35' To 40' Above Floor, Add	58.75	
			For Elevated Installation >40' Above Floor, Add	64.62	
			For Work In Restricted Working Space, Add	35.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.25	
26 05 33 13-1084	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit		
			Body	365.24	64.38
			For Elevated Installation >10' To 15' Above Floor, Add	12.88	
			For Elevated Installation >15' To 20' Above Floor, Add	25.75	
			For Elevated Installation >20' To 25' Above Floor, Add	32.19	
			For Elevated Installation >25' To 30' Above Floor, Add	45.07	
			For Elevated Installation >30' To 35' Above Floor, Add	51.50	
			For Elevated Installation >35' To 40' Above Floor, Add	64.38	
			For Elevated Installation >40' Above Floor, Add	70.82	
			For Work In Restricted Working Space, Add	38.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.63	
26 05 33 13-1085	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	457.01	77.25
			For Elevated Installation >10' To 15' Above Floor, Add	15.45	
			For Elevated Installation >15' To 20' Above Floor, Add	30.90	
			For Elevated Installation >20' To 25' Above Floor, Add	38.63	
			For Elevated Installation >25' To 30' Above Floor, Add	54.08	
			For Elevated Installation >30' To 35' Above Floor, Add	61.80	
			For Elevated Installation >35' To 40' Above Floor, Add	77.26	
			For Elevated Installation >40' Above Floor, Add	84.98	
			For Work In Restricted Working Space, Add	46.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.35	
26 05 33 13-1086	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit		
			Body	704.43	108.63
			For Elevated Installation >10' To 15' Above Floor, Add	21.73	
			For Elevated Installation >15' To 20' Above Floor, Add	43.45	
			For Elevated Installation >20' To 25' Above Floor, Add	54.32	
			For Elevated Installation >25' To 30' Above Floor, Add	76.04	
			For Elevated Installation >30' To 35' Above Floor, Add	86.91	
			For Elevated Installation >35' To 40' Above Floor, Add	108.64	
			For Elevated Installation >40' Above Floor, Add	119.50	
			For Work In Restricted Working Space, Add	65.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.18	
26 05 33 13-1087	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,019.80	144.84
			For Elevated Installation >10' To 15' Above Floor, Add	28.97	
			For Elevated Installation >15' To 20' Above Floor, Add	57.94	
			For Elevated Installation >20' To 25' Above Floor, Add	72.42	
			For Elevated Installation >25' To 30' Above Floor, Add	101.39	
			For Elevated Installation >30' To 35' Above Floor, Add	115.88	
			For Elevated Installation >35' To 40' Above Floor, Add	144.85	
			For Elevated Installation >40' Above Floor, Add	159.33	
			For Work In Restricted Working Space, Add	86.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.91	
26 05 33 13-1088	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit		
			Body	1,281.98	181.06
			For Elevated Installation >10' To 15' Above Floor, Add	36.21	
			For Elevated Installation >15' To 20' Above Floor, Add	72.42	
			For Elevated Installation >20' To 25' Above Floor, Add	90.53	
			For Elevated Installation >25' To 30' Above Floor, Add	126.74	
			For Elevated Installation >30' To 35' Above Floor, Add	144.84	
			For Elevated Installation >35' To 40' Above Floor, Add	181.06	
			For Elevated Installation >40' Above Floor, Add	199.16	
			For Work In Restricted Working Space, Add	108.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.63	
26 05 33 13-1089			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies (26 05 33 13-0843)		
26 05 33 13-1090	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	253.98	38.62
			For Elevated Installation >10' To 15' Above Floor, Add	7.73	
			For Elevated Installation >15' To 20' Above Floor, Add	15.45	
			For Elevated Installation >20' To 25' Above Floor, Add	19.31	
			For Elevated Installation >25' To 30' Above Floor, Add	27.04	
			For Elevated Installation >30' To 35' Above Floor, Add	30.90	
			For Elevated Installation >35' To 40' Above Floor, Add	38.63	
			For Elevated Installation >40' Above Floor, Add	42.49	
			For Work In Restricted Working Space, Add	23.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1091 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	282.49	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.56	
26 05 33 13-1092 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	348.21	50.69
For Elevated Installation >10' To 15' Above Floor, Add	10.14	
For Elevated Installation >15' To 20' Above Floor, Add	20.28	
For Elevated Installation >20' To 25' Above Floor, Add	25.35	
For Elevated Installation >25' To 30' Above Floor, Add	35.49	
For Elevated Installation >30' To 35' Above Floor, Add	40.56	
For Elevated Installation >35' To 40' Above Floor, Add	50.70	
For Elevated Installation >40' Above Floor, Add	55.77	
For Work In Restricted Working Space, Add	30.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.42	
26 05 33 13-1093 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	427.55	58.74
For Elevated Installation >10' To 15' Above Floor, Add	11.75	
For Elevated Installation >15' To 20' Above Floor, Add	23.50	
For Elevated Installation >20' To 25' Above Floor, Add	29.37	
For Elevated Installation >25' To 30' Above Floor, Add	41.12	
For Elevated Installation >30' To 35' Above Floor, Add	47.00	
For Elevated Installation >35' To 40' Above Floor, Add	58.75	
For Elevated Installation >40' Above Floor, Add	64.62	
For Work In Restricted Working Space, Add	35.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.25	
26 05 33 13-1094 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	586.27	64.38
For Elevated Installation >10' To 15' Above Floor, Add	12.88	
For Elevated Installation >15' To 20' Above Floor, Add	25.75	
For Elevated Installation >20' To 25' Above Floor, Add	32.19	
For Elevated Installation >25' To 30' Above Floor, Add	45.07	
For Elevated Installation >30' To 35' Above Floor, Add	51.50	
For Elevated Installation >35' To 40' Above Floor, Add	64.38	
For Elevated Installation >40' Above Floor, Add	70.82	
For Work In Restricted Working Space, Add	38.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.63	
26 05 33 13-1095 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	702.67	77.25
For Elevated Installation >10' To 15' Above Floor, Add	15.45	
For Elevated Installation >15' To 20' Above Floor, Add	30.90	
For Elevated Installation >20' To 25' Above Floor, Add	38.63	
For Elevated Installation >25' To 30' Above Floor, Add	54.08	
For Elevated Installation >30' To 35' Above Floor, Add	61.80	
For Elevated Installation >35' To 40' Above Floor, Add	77.26	
For Elevated Installation >40' Above Floor, Add	84.98	
For Work In Restricted Working Space, Add	46.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.35	
26 05 33 13-1096 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings (26 05 33 13-0843)		
26 05 33 13-1097 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	52.60	15.47
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Work In Restricted Working Space, Add	9.29	
26 05 33 13-1098 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	68.87	18.57
For Elevated Installation >10' To 15' Above Floor, Add	3.71	
For Elevated Installation >15' To 20' Above Floor, Add	7.43	
For Elevated Installation >20' To 25' Above Floor, Add	9.29	
For Elevated Installation >25' To 30' Above Floor, Add	13.00	
For Elevated Installation >30' To 35' Above Floor, Add	14.86	
For Elevated Installation >35' To 40' Above Floor, Add	18.57	
For Elevated Installation >40' Above Floor, Add	20.43	
For Work In Restricted Working Space, Add	11.14	
26 05 33 13-1099 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	88.04	24.76
For Elevated Installation >10' To 15' Above Floor, Add	4.95	
For Elevated Installation >15' To 20' Above Floor, Add	9.90	
For Elevated Installation >20' To 25' Above Floor, Add	12.38	
For Elevated Installation >25' To 30' Above Floor, Add	17.33	
For Elevated Installation >30' To 35' Above Floor, Add	19.81	
For Elevated Installation >35' To 40' Above Floor, Add	24.76	
For Elevated Installation >40' Above Floor, Add	27.24	
For Work In Restricted Working Space, Add	14.86	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1100	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	119.72	30.95
		For Elevated Installation >10' To 15' Above Floor, Add	6.19	
		For Elevated Installation >15' To 20' Above Floor, Add	12.38	
		For Elevated Installation >20' To 25' Above Floor, Add	15.48	
		For Elevated Installation >25' To 30' Above Floor, Add	21.67	
		For Elevated Installation >30' To 35' Above Floor, Add	24.76	
		For Elevated Installation >35' To 40' Above Floor, Add	30.95	
		For Elevated Installation >40' Above Floor, Add	34.05	
		For Work In Restricted Working Space, Add	18.57	
26 05 33 13-1101	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	155.50	37.14
		For Elevated Installation >10' To 15' Above Floor, Add	7.43	
		For Elevated Installation >15' To 20' Above Floor, Add	14.86	
		For Elevated Installation >20' To 25' Above Floor, Add	18.57	
		For Elevated Installation >25' To 30' Above Floor, Add	26.00	
		For Elevated Installation >30' To 35' Above Floor, Add	29.71	
		For Elevated Installation >35' To 40' Above Floor, Add	37.14	
		For Elevated Installation >40' Above Floor, Add	40.85	
		For Work In Restricted Working Space, Add	22.28	
26 05 33 13-1102	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	258.40	43.33
		For Elevated Installation >10' To 15' Above Floor, Add	8.67	
		For Elevated Installation >15' To 20' Above Floor, Add	17.33	
		For Elevated Installation >20' To 25' Above Floor, Add	21.67	
		For Elevated Installation >25' To 30' Above Floor, Add	30.33	
		For Elevated Installation >30' To 35' Above Floor, Add	34.66	
		For Elevated Installation >35' To 40' Above Floor, Add	43.33	
		For Elevated Installation >40' Above Floor, Add	47.66	
		For Work In Restricted Working Space, Add	26.00	
26 05 33 13-1103	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	369.42	49.52
		For Elevated Installation >10' To 15' Above Floor, Add	9.90	
		For Elevated Installation >15' To 20' Above Floor, Add	19.81	
		For Elevated Installation >20' To 25' Above Floor, Add	24.76	
		For Elevated Installation >25' To 30' Above Floor, Add	34.66	
		For Elevated Installation >30' To 35' Above Floor, Add	39.62	
		For Elevated Installation >35' To 40' Above Floor, Add	49.52	
		For Elevated Installation >40' Above Floor, Add	54.47	
		For Work In Restricted Working Space, Add	29.71	
26 05 33 13-1104	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	458.15	55.71
		For Elevated Installation >10' To 15' Above Floor, Add	11.14	
		For Elevated Installation >15' To 20' Above Floor, Add	22.28	
		For Elevated Installation >20' To 25' Above Floor, Add	27.86	
		For Elevated Installation >25' To 30' Above Floor, Add	39.00	
		For Elevated Installation >30' To 35' Above Floor, Add	44.57	
		For Elevated Installation >35' To 40' Above Floor, Add	55.71	
		For Elevated Installation >40' Above Floor, Add	61.28	
		For Work In Restricted Working Space, Add	33.43	
26 05 33 13-1105	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	632.05	64.99
		For Elevated Installation >10' To 15' Above Floor, Add	13.00	
		For Elevated Installation >15' To 20' Above Floor, Add	26.00	
		For Elevated Installation >20' To 25' Above Floor, Add	32.50	
		For Elevated Installation >25' To 30' Above Floor, Add	45.50	
		For Elevated Installation >30' To 35' Above Floor, Add	52.00	
		For Elevated Installation >35' To 40' Above Floor, Add	65.00	
		For Elevated Installation >40' Above Floor, Add	71.49	
		For Work In Restricted Working Space, Add	39.00	
26 05 33 13-1106	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	765.33	74.28
		For Elevated Installation >10' To 15' Above Floor, Add	14.86	
		For Elevated Installation >15' To 20' Above Floor, Add	29.71	
		For Elevated Installation >20' To 25' Above Floor, Add	37.14	
		For Elevated Installation >25' To 30' Above Floor, Add	52.00	
		For Elevated Installation >30' To 35' Above Floor, Add	59.42	
		For Elevated Installation >35' To 40' Above Floor, Add	74.28	
		For Elevated Installation >40' Above Floor, Add	81.71	
		For Work In Restricted Working Space, Add	44.57	
26 05 33 13-1107	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,224.34	117.61
		For Elevated Installation >10' To 15' Above Floor, Add	23.52	
		For Elevated Installation >15' To 20' Above Floor, Add	47.04	
		For Elevated Installation >20' To 25' Above Floor, Add	58.81	
		For Elevated Installation >25' To 30' Above Floor, Add	82.33	
		For Elevated Installation >30' To 35' Above Floor, Add	94.09	
		For Elevated Installation >35' To 40' Above Floor, Add	117.61	
		For Elevated Installation >40' Above Floor, Add	129.37	
		For Work In Restricted Working Space, Add	70.57	
26 05 33 13-1108	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,682.12	179.51
		For Elevated Installation >10' To 15' Above Floor, Add	35.90	
		For Elevated Installation >15' To 20' Above Floor, Add	71.80	
		For Elevated Installation >20' To 25' Above Floor, Add	89.76	
		For Elevated Installation >25' To 30' Above Floor, Add	125.66	
		For Elevated Installation >30' To 35' Above Floor, Add	143.61	
		For Elevated Installation >35' To 40' Above Floor, Add	179.51	
		For Elevated Installation >40' Above Floor, Add	197.46	
		For Work In Restricted Working Space, Add	107.71	
26 05 33 13-1109		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows (26 05 33 13-0843)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1110 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	186.18	38.62
For Elevated Installation >10' To 15' Above Floor, Add	7.73	
For Elevated Installation >15' To 20' Above Floor, Add	15.45	
For Elevated Installation >20' To 25' Above Floor, Add	19.31	
For Elevated Installation >25' To 30' Above Floor, Add	27.04	
For Elevated Installation >30' To 35' Above Floor, Add	30.90	
For Elevated Installation >35' To 40' Above Floor, Add	38.63	
For Elevated Installation >40' Above Floor, Add	42.49	
For Work In Restricted Working Space, Add	23.18	
26 05 33 13-1111 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	218.75	42.65
For Elevated Installation >10' To 15' Above Floor, Add	8.53	
For Elevated Installation >15' To 20' Above Floor, Add	17.06	
For Elevated Installation >20' To 25' Above Floor, Add	21.33	
For Elevated Installation >25' To 30' Above Floor, Add	29.86	
For Elevated Installation >30' To 35' Above Floor, Add	34.12	
For Elevated Installation >35' To 40' Above Floor, Add	42.65	
For Elevated Installation >40' Above Floor, Add	46.92	
For Work In Restricted Working Space, Add	25.59	
26 05 33 13-1112 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	243.03	50.69
For Elevated Installation >10' To 15' Above Floor, Add	10.14	
For Elevated Installation >15' To 20' Above Floor, Add	20.28	
For Elevated Installation >20' To 25' Above Floor, Add	25.35	
For Elevated Installation >25' To 30' Above Floor, Add	35.49	
For Elevated Installation >30' To 35' Above Floor, Add	40.56	
For Elevated Installation >35' To 40' Above Floor, Add	50.70	
For Elevated Installation >40' Above Floor, Add	55.77	
For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1113 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	342.86	58.74
For Elevated Installation >10' To 15' Above Floor, Add	11.75	
For Elevated Installation >15' To 20' Above Floor, Add	23.50	
For Elevated Installation >20' To 25' Above Floor, Add	29.37	
For Elevated Installation >25' To 30' Above Floor, Add	41.12	
For Elevated Installation >30' To 35' Above Floor, Add	47.00	
For Elevated Installation >35' To 40' Above Floor, Add	58.75	
For Elevated Installation >40' Above Floor, Add	64.62	
For Work In Restricted Working Space, Add	35.25	
26 05 33 13-1114 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	446.33	64.38
For Elevated Installation >10' To 15' Above Floor, Add	12.88	
For Elevated Installation >15' To 20' Above Floor, Add	25.75	
For Elevated Installation >20' To 25' Above Floor, Add	32.19	
For Elevated Installation >25' To 30' Above Floor, Add	45.07	
For Elevated Installation >30' To 35' Above Floor, Add	51.50	
For Elevated Installation >35' To 40' Above Floor, Add	64.38	
For Elevated Installation >40' Above Floor, Add	70.82	
For Work In Restricted Working Space, Add	38.63	
26 05 33 13-1115 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	485.27	77.25
For Elevated Installation >10' To 15' Above Floor, Add	15.45	
For Elevated Installation >15' To 20' Above Floor, Add	30.90	
For Elevated Installation >20' To 25' Above Floor, Add	38.63	
For Elevated Installation >25' To 30' Above Floor, Add	54.08	
For Elevated Installation >30' To 35' Above Floor, Add	61.80	
For Elevated Installation >35' To 40' Above Floor, Add	77.26	
For Elevated Installation >40' Above Floor, Add	84.98	
For Work In Restricted Working Space, Add	46.35	
26 05 33 13-1116 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,112.06	107.02
For Elevated Installation >10' To 15' Above Floor, Add	21.41	
For Elevated Installation >15' To 20' Above Floor, Add	42.81	
For Elevated Installation >20' To 25' Above Floor, Add	53.51	
For Elevated Installation >25' To 30' Above Floor, Add	74.92	
For Elevated Installation >30' To 35' Above Floor, Add	85.62	
For Elevated Installation >35' To 40' Above Floor, Add	107.03	
For Elevated Installation >40' Above Floor, Add	117.73	
For Work In Restricted Working Space, Add	64.22	
26 05 33 13-1117 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,187.93	144.84
For Elevated Installation >10' To 15' Above Floor, Add	28.97	
For Elevated Installation >15' To 20' Above Floor, Add	57.94	
For Elevated Installation >20' To 25' Above Floor, Add	72.43	
For Elevated Installation >25' To 30' Above Floor, Add	101.40	
For Elevated Installation >30' To 35' Above Floor, Add	115.88	
For Elevated Installation >35' To 40' Above Floor, Add	144.86	
For Elevated Installation >40' Above Floor, Add	159.34	
For Work In Restricted Working Space, Add	86.91	
26 05 33 13-1118 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,917.99	181.06
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.43	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.75	
For Elevated Installation >30' To 35' Above Floor, Add	144.85	
For Elevated Installation >35' To 40' Above Floor, Add	181.07	
For Elevated Installation >40' Above Floor, Add	199.17	
For Work In Restricted Working Space, Add	108.64	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1119	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,011.96 44.10 88.20 110.25 154.35 176.40 220.51 242.56 132.30	220.49
26 05 33 13-1120		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows (26 05 33 13-0843)		
26 05 33 13-1121	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	263.71 7.73 15.45 19.31 27.04 30.90 38.63 42.49 23.18	38.62
26 05 33 13-1122	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	300.53 8.85 17.70 22.13 30.98 35.41 44.26 48.69 26.56	44.26
26 05 33 13-1123	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	576.54 10.14 20.28 25.35 35.49 40.56 50.70 55.77 30.42	50.69
26 05 33 13-1124	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	607.30 11.75 23.50 29.37 41.12 47.00 58.75 64.62 35.25	58.74
26 05 33 13-1125	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	823.03 12.88 25.75 32.19 45.07 51.50 64.38 70.82 38.63	64.38
26 05 33 13-1126	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	881.71 15.45 30.90 38.63 54.08 61.80 77.26 84.98 46.35	77.25
26 05 33 13-1127	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow..... <i>For Elevated Installation >10' To 15' Above Floor, Add</i> <i>For Elevated Installation >15' To 20' Above Floor, Add</i> <i>For Elevated Installation >20' To 25' Above Floor, Add</i> <i>For Elevated Installation >25' To 30' Above Floor, Add</i> <i>For Elevated Installation >30' To 35' Above Floor, Add</i> <i>For Elevated Installation >35' To 40' Above Floor, Add</i> <i>For Elevated Installation >40' Above Floor, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,677.47 21.73 43.45 54.32 76.04 86.91 108.64 119.50 65.18	108.63

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1128	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,778.75	144.84
		For Elevated Installation >10' To 15' Above Floor, Add	28.97	
		For Elevated Installation >15' To 20' Above Floor, Add	57.94	
		For Elevated Installation >20' To 25' Above Floor, Add	72.42	
		For Elevated Installation >25' To 30' Above Floor, Add	101.39	
		For Elevated Installation >30' To 35' Above Floor, Add	115.88	
		For Elevated Installation >35' To 40' Above Floor, Add	144.85	
		For Elevated Installation >40' Above Floor, Add	159.33	
		For Work In Restricted Working Space, Add	86.91	
26 05 33 13-1129	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	2,591.93	181.06
		For Elevated Installation >10' To 15' Above Floor, Add	36.21	
		For Elevated Installation >15' To 20' Above Floor, Add	72.42	
		For Elevated Installation >20' To 25' Above Floor, Add	90.53	
		For Elevated Installation >25' To 30' Above Floor, Add	126.74	
		For Elevated Installation >30' To 35' Above Floor, Add	144.84	
		For Elevated Installation >35' To 40' Above Floor, Add	181.06	
		For Elevated Installation >40' Above Floor, Add	199.16	
		For Work In Restricted Working Space, Add	108.63	
26 05 33 13-1130	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	2,941.86	220.49
		For Elevated Installation >10' To 15' Above Floor, Add	44.10	
		For Elevated Installation >15' To 20' Above Floor, Add	88.20	
		For Elevated Installation >20' To 25' Above Floor, Add	110.25	
		For Elevated Installation >25' To 30' Above Floor, Add	154.34	
		For Elevated Installation >30' To 35' Above Floor, Add	176.39	
		For Elevated Installation >35' To 40' Above Floor, Add	220.49	
		For Elevated Installation >40' Above Floor, Add	242.54	
		For Work In Restricted Working Space, Add	132.29	
26 05 33 13-1131 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows (26 05 33 13-0843)				
26 05 33 13-1132	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	103.53	20.12
		For Elevated Installation >10' To 15' Above Floor, Add	4.02	
		For Elevated Installation >15' To 20' Above Floor, Add	8.05	
		For Elevated Installation >20' To 25' Above Floor, Add	10.06	
		For Elevated Installation >25' To 30' Above Floor, Add	14.08	
		For Elevated Installation >30' To 35' Above Floor, Add	16.10	
		For Elevated Installation >35' To 40' Above Floor, Add	20.12	
		For Elevated Installation >40' Above Floor, Add	22.13	
		For Work In Restricted Working Space, Add	12.07	
26 05 33 13-1133	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	121.15	24.94
		For Elevated Installation >10' To 15' Above Floor, Add	4.99	
		For Elevated Installation >15' To 20' Above Floor, Add	9.98	
		For Elevated Installation >20' To 25' Above Floor, Add	12.47	
		For Elevated Installation >25' To 30' Above Floor, Add	17.46	
		For Elevated Installation >30' To 35' Above Floor, Add	19.96	
		For Elevated Installation >35' To 40' Above Floor, Add	24.95	
		For Elevated Installation >40' Above Floor, Add	27.44	
		For Work In Restricted Working Space, Add	14.97	
26 05 33 13-1134	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	144.72	30.57
		For Elevated Installation >10' To 15' Above Floor, Add	6.12	
		For Elevated Installation >15' To 20' Above Floor, Add	12.23	
		For Elevated Installation >20' To 25' Above Floor, Add	15.29	
		For Elevated Installation >25' To 30' Above Floor, Add	21.41	
		For Elevated Installation >30' To 35' Above Floor, Add	24.46	
		For Elevated Installation >35' To 40' Above Floor, Add	30.58	
		For Elevated Installation >40' Above Floor, Add	33.64	
		For Work In Restricted Working Space, Add	18.35	
26 05 33 13-1135	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	170.52	35.41
		For Elevated Installation >10' To 15' Above Floor, Add	7.08	
		For Elevated Installation >15' To 20' Above Floor, Add	14.16	
		For Elevated Installation >20' To 25' Above Floor, Add	17.70	
		For Elevated Installation >25' To 30' Above Floor, Add	24.78	
		For Elevated Installation >30' To 35' Above Floor, Add	28.32	
		For Elevated Installation >35' To 40' Above Floor, Add	35.41	
		For Elevated Installation >40' Above Floor, Add	38.95	
		For Work In Restricted Working Space, Add	21.24	

26 05 33 13-1136 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows (26 05 33 13-0843)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1137	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	83.34	20.12
			For Elevated Installation >10' To 15' Above Floor, Add	4.02	
			For Elevated Installation >15' To 20' Above Floor, Add	8.05	
			For Elevated Installation >20' To 25' Above Floor, Add	10.06	
			For Elevated Installation >25' To 30' Above Floor, Add	14.08	
			For Elevated Installation >30' To 35' Above Floor, Add	16.10	
			For Elevated Installation >35' To 40' Above Floor, Add	20.12	
			For Elevated Installation >40' Above Floor, Add	22.13	
			For Work In Restricted Working Space, Add	12.07	
26 05 33 13-1138	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	96.91	24.94
			For Elevated Installation >10' To 15' Above Floor, Add	4.99	
			For Elevated Installation >15' To 20' Above Floor, Add	9.98	
			For Elevated Installation >20' To 25' Above Floor, Add	12.47	
			For Elevated Installation >25' To 30' Above Floor, Add	17.46	
			For Elevated Installation >30' To 35' Above Floor, Add	19.96	
			For Elevated Installation >35' To 40' Above Floor, Add	24.95	
			For Elevated Installation >40' Above Floor, Add	27.44	
			For Work In Restricted Working Space, Add	14.97	
26 05 33 13-1139	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	132.91	30.57
			For Elevated Installation >10' To 15' Above Floor, Add	6.12	
			For Elevated Installation >15' To 20' Above Floor, Add	12.23	
			For Elevated Installation >20' To 25' Above Floor, Add	15.29	
			For Elevated Installation >25' To 30' Above Floor, Add	21.41	
			For Elevated Installation >30' To 35' Above Floor, Add	24.46	
			For Elevated Installation >35' To 40' Above Floor, Add	30.58	
			For Elevated Installation >40' Above Floor, Add	33.64	
			For Work In Restricted Working Space, Add	18.35	
26 05 33 13-1140	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	170.61	35.41
			For Elevated Installation >10' To 15' Above Floor, Add	7.08	
			For Elevated Installation >15' To 20' Above Floor, Add	14.16	
			For Elevated Installation >20' To 25' Above Floor, Add	17.70	
			For Elevated Installation >25' To 30' Above Floor, Add	24.78	
			For Elevated Installation >30' To 35' Above Floor, Add	28.32	
			For Elevated Installation >35' To 40' Above Floor, Add	35.41	
			For Elevated Installation >40' Above Floor, Add	38.95	
			For Work In Restricted Working Space, Add	21.24	
26 05 33 13-1141	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	206.68	40.24
			For Elevated Installation >10' To 15' Above Floor, Add	8.05	
			For Elevated Installation >15' To 20' Above Floor, Add	16.09	
			For Elevated Installation >20' To 25' Above Floor, Add	20.12	
			For Elevated Installation >25' To 30' Above Floor, Add	28.16	
			For Elevated Installation >30' To 35' Above Floor, Add	32.19	
			For Elevated Installation >35' To 40' Above Floor, Add	40.24	
			For Elevated Installation >40' Above Floor, Add	44.26	
			For Work In Restricted Working Space, Add	24.14	
26 05 33 13-1142	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	291.45	44.26
			For Elevated Installation >10' To 15' Above Floor, Add	8.85	
			For Elevated Installation >15' To 20' Above Floor, Add	17.70	
			For Elevated Installation >20' To 25' Above Floor, Add	22.13	
			For Elevated Installation >25' To 30' Above Floor, Add	30.98	
			For Elevated Installation >30' To 35' Above Floor, Add	35.41	
			For Elevated Installation >35' To 40' Above Floor, Add	44.26	
			For Elevated Installation >40' Above Floor, Add	48.69	
			For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1143	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	396.20	55.53
			For Elevated Installation >10' To 15' Above Floor, Add	11.11	
			For Elevated Installation >15' To 20' Above Floor, Add	22.21	
			For Elevated Installation >20' To 25' Above Floor, Add	27.76	
			For Elevated Installation >25' To 30' Above Floor, Add	38.87	
			For Elevated Installation >30' To 35' Above Floor, Add	44.42	
			For Elevated Installation >35' To 40' Above Floor, Add	55.53	
			For Elevated Installation >40' Above Floor, Add	61.08	
			For Work In Restricted Working Space, Add	33.32	
26 05 33 13-1144			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows (26 05 33 13-0843)		
26 05 33 13-1145	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	103.58	20.12
			For Elevated Installation >10' To 15' Above Floor, Add	4.02	
			For Elevated Installation >15' To 20' Above Floor, Add	8.05	
			For Elevated Installation >20' To 25' Above Floor, Add	10.06	
			For Elevated Installation >25' To 30' Above Floor, Add	14.08	
			For Elevated Installation >30' To 35' Above Floor, Add	16.10	
			For Elevated Installation >35' To 40' Above Floor, Add	20.12	
			For Elevated Installation >40' Above Floor, Add	22.13	
			For Work In Restricted Working Space, Add	12.07	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1146	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow		123.95	24.94
		For Elevated Installation >10' To 15' Above Floor, Add		4.99	
		For Elevated Installation >15' To 20' Above Floor, Add		9.98	
		For Elevated Installation >20' To 25' Above Floor, Add		12.47	
		For Elevated Installation >25' To 30' Above Floor, Add		17.46	
		For Elevated Installation >30' To 35' Above Floor, Add		19.96	
		For Elevated Installation >35' To 40' Above Floor, Add		24.95	
		For Elevated Installation >40' Above Floor, Add		27.44	
		For Work In Restricted Working Space, Add		14.97	
26 05 33 13-1147	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow		144.74	30.57
		For Elevated Installation >10' To 15' Above Floor, Add		6.12	
		For Elevated Installation >15' To 20' Above Floor, Add		12.23	
		For Elevated Installation >20' To 25' Above Floor, Add		15.29	
		For Elevated Installation >25' To 30' Above Floor, Add		21.41	
		For Elevated Installation >30' To 35' Above Floor, Add		24.46	
		For Elevated Installation >35' To 40' Above Floor, Add		30.58	
		For Elevated Installation >40' Above Floor, Add		33.64	
		For Work In Restricted Working Space, Add		18.35	
26 05 33 13-1148	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow		170.57	35.41
		For Elevated Installation >10' To 15' Above Floor, Add		7.08	
		For Elevated Installation >15' To 20' Above Floor, Add		14.16	
		For Elevated Installation >20' To 25' Above Floor, Add		17.70	
		For Elevated Installation >25' To 30' Above Floor, Add		24.78	
		For Elevated Installation >30' To 35' Above Floor, Add		28.32	
		For Elevated Installation >35' To 40' Above Floor, Add		35.41	
		For Elevated Installation >40' Above Floor, Add		38.95	
		For Work In Restricted Working Space, Add		21.24	
26 05 33 13-1149 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows (26 05 33 13-0843)					
26 05 33 13-1150	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow		83.41	20.12
		For Elevated Installation >10' To 15' Above Floor, Add		4.02	
		For Elevated Installation >15' To 20' Above Floor, Add		8.05	
		For Elevated Installation >20' To 25' Above Floor, Add		10.06	
		For Elevated Installation >25' To 30' Above Floor, Add		14.08	
		For Elevated Installation >30' To 35' Above Floor, Add		16.10	
		For Elevated Installation >35' To 40' Above Floor, Add		20.12	
		For Elevated Installation >40' Above Floor, Add		22.13	
		For Work In Restricted Working Space, Add		12.07	
26 05 33 13-1151	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow		96.91	24.94
		For Elevated Installation >10' To 15' Above Floor, Add		4.99	
		For Elevated Installation >15' To 20' Above Floor, Add		9.98	
		For Elevated Installation >20' To 25' Above Floor, Add		12.47	
		For Elevated Installation >25' To 30' Above Floor, Add		17.46	
		For Elevated Installation >30' To 35' Above Floor, Add		19.96	
		For Elevated Installation >35' To 40' Above Floor, Add		24.95	
		For Elevated Installation >40' Above Floor, Add		27.44	
		For Work In Restricted Working Space, Add		14.97	
26 05 33 13-1152	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow		124.54	30.57
		For Elevated Installation >10' To 15' Above Floor, Add		6.12	
		For Elevated Installation >15' To 20' Above Floor, Add		12.23	
		For Elevated Installation >20' To 25' Above Floor, Add		15.29	
		For Elevated Installation >25' To 30' Above Floor, Add		21.41	
		For Elevated Installation >30' To 35' Above Floor, Add		24.46	
		For Elevated Installation >35' To 40' Above Floor, Add		30.58	
		For Elevated Installation >40' Above Floor, Add		33.64	
		For Work In Restricted Working Space, Add		18.35	
26 05 33 13-1153	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow		154.37	35.41
		For Elevated Installation >10' To 15' Above Floor, Add		7.08	
		For Elevated Installation >15' To 20' Above Floor, Add		14.16	
		For Elevated Installation >20' To 25' Above Floor, Add		17.70	
		For Elevated Installation >25' To 30' Above Floor, Add		24.78	
		For Elevated Installation >30' To 35' Above Floor, Add		28.32	
		For Elevated Installation >35' To 40' Above Floor, Add		35.41	
		For Elevated Installation >40' Above Floor, Add		38.95	
		For Work In Restricted Working Space, Add		21.24	
26 05 33 13-1154	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow		180.23	40.24
		For Elevated Installation >10' To 15' Above Floor, Add		8.05	
		For Elevated Installation >15' To 20' Above Floor, Add		16.09	
		For Elevated Installation >20' To 25' Above Floor, Add		20.12	
		For Elevated Installation >25' To 30' Above Floor, Add		28.16	
		For Elevated Installation >30' To 35' Above Floor, Add		32.19	
		For Elevated Installation >35' To 40' Above Floor, Add		40.24	
		For Elevated Installation >40' Above Floor, Add		44.26	
		For Work In Restricted Working Space, Add		24.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1155	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	206.72	44.26
			For Elevated Installation >10' To 15' Above Floor, Add	8.65	
			For Elevated Installation >15' To 20' Above Floor, Add	17.70	
			For Elevated Installation >20' To 25' Above Floor, Add	22.13	
			For Elevated Installation >25' To 30' Above Floor, Add	30.98	
			For Elevated Installation >30' To 35' Above Floor, Add	35.41	
			For Elevated Installation >35' To 40' Above Floor, Add	44.26	
			For Elevated Installation >40' Above Floor, Add	48.69	
			For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1156	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	374.59	55.53
			For Elevated Installation >10' To 15' Above Floor, Add	11.11	
			For Elevated Installation >15' To 20' Above Floor, Add	22.21	
			For Elevated Installation >20' To 25' Above Floor, Add	27.76	
			For Elevated Installation >25' To 30' Above Floor, Add	38.87	
			For Elevated Installation >30' To 35' Above Floor, Add	44.42	
			For Elevated Installation >35' To 40' Above Floor, Add	55.53	
			For Elevated Installation >40' Above Floor, Add	61.08	
			For Work In Restricted Working Space, Add	33.32	
26 05 33 13-1157	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	434.41	75.64
			For Elevated Installation >10' To 15' Above Floor, Add	15.13	
			For Elevated Installation >15' To 20' Above Floor, Add	30.26	
			For Elevated Installation >20' To 25' Above Floor, Add	37.82	
			For Elevated Installation >25' To 30' Above Floor, Add	52.95	
			For Elevated Installation >30' To 35' Above Floor, Add	60.52	
			For Elevated Installation >35' To 40' Above Floor, Add	75.65	
			For Elevated Installation >40' Above Floor, Add	83.21	
			For Work In Restricted Working Space, Add	45.39	
26 05 33 13-1158	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	470.24	85.30
			For Elevated Installation >10' To 15' Above Floor, Add	17.06	
			For Elevated Installation >15' To 20' Above Floor, Add	34.12	
			For Elevated Installation >20' To 25' Above Floor, Add	42.65	
			For Elevated Installation >25' To 30' Above Floor, Add	59.71	
			For Elevated Installation >30' To 35' Above Floor, Add	68.24	
			For Elevated Installation >35' To 40' Above Floor, Add	85.30	
			For Elevated Installation >40' Above Floor, Add	93.83	
			For Work In Restricted Working Space, Add	51.18	
26 05 33 13-1159	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	582.60	111.05
			For Elevated Installation >10' To 15' Above Floor, Add	22.21	
			For Elevated Installation >15' To 20' Above Floor, Add	44.42	
			For Elevated Installation >20' To 25' Above Floor, Add	55.53	
			For Elevated Installation >25' To 30' Above Floor, Add	77.74	
			For Elevated Installation >30' To 35' Above Floor, Add	88.84	
			For Elevated Installation >35' To 40' Above Floor, Add	111.05	
			For Elevated Installation >40' Above Floor, Add	122.16	
			For Work In Restricted Working Space, Add	66.63	
26 05 33 13-1160			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows (26 05 33 13-0843)		
26 05 33 13-1161	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	173.10	38.62
			For Elevated Installation >10' To 15' Above Floor, Add	7.73	
			For Elevated Installation >15' To 20' Above Floor, Add	15.45	
			For Elevated Installation >20' To 25' Above Floor, Add	19.31	
			For Elevated Installation >25' To 30' Above Floor, Add	27.04	
			For Elevated Installation >30' To 35' Above Floor, Add	30.90	
			For Elevated Installation >35' To 40' Above Floor, Add	38.63	
			For Elevated Installation >40' Above Floor, Add	42.49	
			For Work In Restricted Working Space, Add	23.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.18	
26 05 33 13-1162	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	188.14	44.26
			For Elevated Installation >10' To 15' Above Floor, Add	8.65	
			For Elevated Installation >15' To 20' Above Floor, Add	17.70	
			For Elevated Installation >20' To 25' Above Floor, Add	22.13	
			For Elevated Installation >25' To 30' Above Floor, Add	30.98	
			For Elevated Installation >30' To 35' Above Floor, Add	35.41	
			For Elevated Installation >35' To 40' Above Floor, Add	44.26	
			For Elevated Installation >40' Above Floor, Add	48.69	
			For Work In Restricted Working Space, Add	26.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.56	
26 05 33 13-1163	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	206.91	50.69
			For Elevated Installation >10' To 15' Above Floor, Add	10.14	
			For Elevated Installation >15' To 20' Above Floor, Add	20.28	
			For Elevated Installation >20' To 25' Above Floor, Add	25.35	
			For Elevated Installation >25' To 30' Above Floor, Add	35.49	
			For Elevated Installation >30' To 35' Above Floor, Add	40.56	
			For Elevated Installation >35' To 40' Above Floor, Add	50.70	
			For Elevated Installation >40' Above Floor, Add	55.77	
			For Work In Restricted Working Space, Add	30.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1164 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow 273.93		58.74
For Elevated Installation >10' To 15' Above Floor, Add	11.75	
For Elevated Installation >15' To 20' Above Floor, Add	23.50	
For Elevated Installation >20' To 25' Above Floor, Add	29.37	
For Elevated Installation >25' To 30' Above Floor, Add	41.12	
For Elevated Installation >30' To 35' Above Floor, Add	47.00	
For Elevated Installation >35' To 40' Above Floor, Add	58.75	
For Elevated Installation >40' Above Floor, Add	64.62	
For Work In Restricted Working Space, Add	35.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.25	
26 05 33 13-1165 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow 344.15		64.38
For Elevated Installation >10' To 15' Above Floor, Add	12.88	
For Elevated Installation >15' To 20' Above Floor, Add	25.75	
For Elevated Installation >20' To 25' Above Floor, Add	32.19	
For Elevated Installation >25' To 30' Above Floor, Add	45.07	
For Elevated Installation >30' To 35' Above Floor, Add	51.50	
For Elevated Installation >35' To 40' Above Floor, Add	64.38	
For Elevated Installation >40' Above Floor, Add	70.82	
For Work In Restricted Working Space, Add	38.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.63	
26 05 33 13-1166 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover		
(26 05 33 13-0843)		
26 05 33 13-1167 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....205.10		38.62
For Elevated Installation >10' To 15' Above Floor, Add	7.73	
For Elevated Installation >15' To 20' Above Floor, Add	15.45	
For Elevated Installation >20' To 25' Above Floor, Add	19.31	
For Elevated Installation >25' To 30' Above Floor, Add	27.04	
For Elevated Installation >30' To 35' Above Floor, Add	30.90	
For Elevated Installation >35' To 40' Above Floor, Add	38.63	
For Elevated Installation >40' Above Floor, Add	42.49	
For Work In Restricted Working Space, Add	23.18	
26 05 33 13-1168 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....222.11		44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1169 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....259.18		50.69
For Elevated Installation >10' To 15' Above Floor, Add	10.14	
For Elevated Installation >15' To 20' Above Floor, Add	20.28	
For Elevated Installation >20' To 25' Above Floor, Add	25.35	
For Elevated Installation >25' To 30' Above Floor, Add	35.49	
For Elevated Installation >30' To 35' Above Floor, Add	40.56	
For Elevated Installation >35' To 40' Above Floor, Add	50.70	
For Elevated Installation >40' Above Floor, Add	55.77	
For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1170 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....364.65		58.74
For Elevated Installation >10' To 15' Above Floor, Add	11.75	
For Elevated Installation >15' To 20' Above Floor, Add	23.50	
For Elevated Installation >20' To 25' Above Floor, Add	29.37	
For Elevated Installation >25' To 30' Above Floor, Add	41.12	
For Elevated Installation >30' To 35' Above Floor, Add	47.00	
For Elevated Installation >35' To 40' Above Floor, Add	58.75	
For Elevated Installation >40' Above Floor, Add	64.62	
For Work In Restricted Working Space, Add	35.25	
26 05 33 13-1171 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....579.22		64.38
For Elevated Installation >10' To 15' Above Floor, Add	12.88	
For Elevated Installation >15' To 20' Above Floor, Add	25.75	
For Elevated Installation >20' To 25' Above Floor, Add	32.19	
For Elevated Installation >25' To 30' Above Floor, Add	45.07	
For Elevated Installation >30' To 35' Above Floor, Add	51.50	
For Elevated Installation >35' To 40' Above Floor, Add	64.38	
For Elevated Installation >40' Above Floor, Add	70.82	
For Work In Restricted Working Space, Add	38.63	
26 05 33 13-1172 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....629.12		77.25
For Elevated Installation >10' To 15' Above Floor, Add	15.45	
For Elevated Installation >15' To 20' Above Floor, Add	30.90	
For Elevated Installation >20' To 25' Above Floor, Add	38.63	
For Elevated Installation >25' To 30' Above Floor, Add	54.08	
For Elevated Installation >30' To 35' Above Floor, Add	61.80	
For Elevated Installation >35' To 40' Above Floor, Add	77.26	
For Elevated Installation >40' Above Floor, Add	84.98	
For Work In Restricted Working Space, Add	46.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1173			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover (26 05 33 13-0843)		
26 05 33 13-1174	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	223.27	38.62
			For Elevated Installation >10' To 15' Above Floor, Add	7.73	
			For Elevated Installation >15' To 20' Above Floor, Add	15.45	
			For Elevated Installation >20' To 25' Above Floor, Add	19.31	
			For Elevated Installation >25' To 30' Above Floor, Add	27.04	
			For Elevated Installation >30' To 35' Above Floor, Add	30.90	
			For Elevated Installation >35' To 40' Above Floor, Add	38.63	
			For Elevated Installation >40' Above Floor, Add	42.49	
			For Work In Restricted Working Space, Add	23.18	
26 05 33 13-1175	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	252.40	44.26
			For Elevated Installation >10' To 15' Above Floor, Add	8.85	
			For Elevated Installation >15' To 20' Above Floor, Add	17.70	
			For Elevated Installation >20' To 25' Above Floor, Add	22.13	
			For Elevated Installation >25' To 30' Above Floor, Add	30.98	
			For Elevated Installation >30' To 35' Above Floor, Add	35.41	
			For Elevated Installation >35' To 40' Above Floor, Add	44.26	
			For Elevated Installation >40' Above Floor, Add	48.69	
			For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1176	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	276.46	50.69
			For Elevated Installation >10' To 15' Above Floor, Add	10.14	
			For Elevated Installation >15' To 20' Above Floor, Add	20.28	
			For Elevated Installation >20' To 25' Above Floor, Add	25.35	
			For Elevated Installation >25' To 30' Above Floor, Add	35.49	
			For Elevated Installation >30' To 35' Above Floor, Add	40.56	
			For Elevated Installation >35' To 40' Above Floor, Add	50.70	
			For Elevated Installation >40' Above Floor, Add	55.77	
			For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1177	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	382.21	58.74
			For Elevated Installation >10' To 15' Above Floor, Add	11.75	
			For Elevated Installation >15' To 20' Above Floor, Add	23.50	
			For Elevated Installation >20' To 25' Above Floor, Add	29.37	
			For Elevated Installation >25' To 30' Above Floor, Add	41.12	
			For Elevated Installation >30' To 35' Above Floor, Add	47.00	
			For Elevated Installation >35' To 40' Above Floor, Add	58.75	
			For Elevated Installation >40' Above Floor, Add	64.62	
			For Work In Restricted Working Space, Add	35.25	
26 05 33 13-1178	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	621.12	64.38
			For Elevated Installation >10' To 15' Above Floor, Add	12.88	
			For Elevated Installation >15' To 20' Above Floor, Add	25.75	
			For Elevated Installation >20' To 25' Above Floor, Add	32.19	
			For Elevated Installation >25' To 30' Above Floor, Add	45.07	
			For Elevated Installation >30' To 35' Above Floor, Add	51.50	
			For Elevated Installation >35' To 40' Above Floor, Add	64.38	
			For Elevated Installation >40' Above Floor, Add	70.82	
			For Work In Restricted Working Space, Add	38.63	
26 05 33 13-1179	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	667.57	77.25
			For Elevated Installation >10' To 15' Above Floor, Add	15.45	
			For Elevated Installation >15' To 20' Above Floor, Add	30.90	
			For Elevated Installation >20' To 25' Above Floor, Add	38.63	
			For Elevated Installation >25' To 30' Above Floor, Add	54.08	
			For Elevated Installation >30' To 35' Above Floor, Add	61.80	
			For Elevated Installation >35' To 40' Above Floor, Add	77.26	
			For Elevated Installation >40' Above Floor, Add	84.98	
			For Work In Restricted Working Space, Add	46.35	
26 05 33 13-1180			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover (26 05 33 13-0843)		
26 05 33 13-1181	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	223.41	38.62
			For Elevated Installation >10' To 15' Above Floor, Add	7.73	
			For Elevated Installation >15' To 20' Above Floor, Add	15.45	
			For Elevated Installation >20' To 25' Above Floor, Add	19.31	
			For Elevated Installation >25' To 30' Above Floor, Add	27.04	
			For Elevated Installation >30' To 35' Above Floor, Add	30.90	
			For Elevated Installation >35' To 40' Above Floor, Add	38.63	
			For Elevated Installation >40' Above Floor, Add	42.49	
			For Work In Restricted Working Space, Add	23.18	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1182 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	247.04	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1183 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	293.15	50.69
For Elevated Installation >10' To 15' Above Floor, Add	10.14	
For Elevated Installation >15' To 20' Above Floor, Add	20.28	
For Elevated Installation >20' To 25' Above Floor, Add	25.35	
For Elevated Installation >25' To 30' Above Floor, Add	35.49	
For Elevated Installation >30' To 35' Above Floor, Add	40.56	
For Elevated Installation >35' To 40' Above Floor, Add	50.70	
For Elevated Installation >40' Above Floor, Add	55.77	
For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1184 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	395.59	58.74
For Elevated Installation >10' To 15' Above Floor, Add	11.75	
For Elevated Installation >15' To 20' Above Floor, Add	23.50	
For Elevated Installation >20' To 25' Above Floor, Add	29.37	
For Elevated Installation >25' To 30' Above Floor, Add	41.12	
For Elevated Installation >30' To 35' Above Floor, Add	47.00	
For Elevated Installation >35' To 40' Above Floor, Add	58.75	
For Elevated Installation >40' Above Floor, Add	64.62	
For Work In Restricted Working Space, Add	35.25	
26 05 33 13-1185 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	641.08	64.38
For Elevated Installation >10' To 15' Above Floor, Add	12.88	
For Elevated Installation >15' To 20' Above Floor, Add	25.75	
For Elevated Installation >20' To 25' Above Floor, Add	32.19	
For Elevated Installation >25' To 30' Above Floor, Add	45.07	
For Elevated Installation >30' To 35' Above Floor, Add	51.50	
For Elevated Installation >35' To 40' Above Floor, Add	64.38	
For Elevated Installation >40' Above Floor, Add	70.82	
For Work In Restricted Working Space, Add	38.63	
26 05 33 13-1186 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	692.18	77.25
For Elevated Installation >10' To 15' Above Floor, Add	15.45	
For Elevated Installation >15' To 20' Above Floor, Add	30.90	
For Elevated Installation >20' To 25' Above Floor, Add	38.63	
For Elevated Installation >25' To 30' Above Floor, Add	54.08	
For Elevated Installation >30' To 35' Above Floor, Add	61.80	
For Elevated Installation >35' To 40' Above Floor, Add	77.26	
For Elevated Installation >40' Above Floor, Add	84.98	
For Work In Restricted Working Space, Add	46.35	

26 05 33 13-1187 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover

(26 05 33 13-0843)

26 05 33 13-1188 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	273.69	38.62
For Elevated Installation >10' To 15' Above Floor, Add	7.73	
For Elevated Installation >15' To 20' Above Floor, Add	15.45	
For Elevated Installation >20' To 25' Above Floor, Add	19.31	
For Elevated Installation >25' To 30' Above Floor, Add	27.04	
For Elevated Installation >30' To 35' Above Floor, Add	30.90	
For Elevated Installation >35' To 40' Above Floor, Add	38.63	
For Elevated Installation >40' Above Floor, Add	42.49	
For Work In Restricted Working Space, Add	23.18	
26 05 33 13-1189 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	302.94	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1190 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	329.50	50.69
For Elevated Installation >10' To 15' Above Floor, Add	10.14	
For Elevated Installation >15' To 20' Above Floor, Add	20.28	
For Elevated Installation >20' To 25' Above Floor, Add	25.35	
For Elevated Installation >25' To 30' Above Floor, Add	35.49	
For Elevated Installation >30' To 35' Above Floor, Add	40.56	
For Elevated Installation >35' To 40' Above Floor, Add	50.70	
For Elevated Installation >40' Above Floor, Add	55.77	
For Work In Restricted Working Space, Add	30.42	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1191	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	801.96	58.74
		For Elevated Installation >10' To 15' Above Floor, Add	11.75	
		For Elevated Installation >15' To 20' Above Floor, Add	23.50	
		For Elevated Installation >20' To 25' Above Floor, Add	29.37	
		For Elevated Installation >25' To 30' Above Floor, Add	41.12	
		For Elevated Installation >30' To 35' Above Floor, Add	47.00	
		For Elevated Installation >35' To 40' Above Floor, Add	58.75	
		For Elevated Installation >40' Above Floor, Add	64.62	
		For Work In Restricted Working Space, Add	35.25	
26 05 33 13-1192		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0843)		
		Note: Excludes cover.		
26 05 33 13-1193	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	139.62	38.62
		For Elevated Installation >10' To 15' Above Floor, Add	7.73	
		For Elevated Installation >15' To 20' Above Floor, Add	15.45	
		For Elevated Installation >20' To 25' Above Floor, Add	19.31	
		For Elevated Installation >25' To 30' Above Floor, Add	27.04	
		For Elevated Installation >30' To 35' Above Floor, Add	30.90	
		For Elevated Installation >35' To 40' Above Floor, Add	38.63	
		For Elevated Installation >40' Above Floor, Add	42.49	
		For Work In Restricted Working Space, Add	23.18	
26 05 33 13-1194	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	154.26	44.26
		For Elevated Installation >10' To 15' Above Floor, Add	8.85	
		For Elevated Installation >15' To 20' Above Floor, Add	17.70	
		For Elevated Installation >20' To 25' Above Floor, Add	22.13	
		For Elevated Installation >25' To 30' Above Floor, Add	30.98	
		For Elevated Installation >30' To 35' Above Floor, Add	35.41	
		For Elevated Installation >35' To 40' Above Floor, Add	44.26	
		For Elevated Installation >40' Above Floor, Add	48.69	
		For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1195	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	172.78	50.69
		For Elevated Installation >10' To 15' Above Floor, Add	10.14	
		For Elevated Installation >15' To 20' Above Floor, Add	20.28	
		For Elevated Installation >20' To 25' Above Floor, Add	25.35	
		For Elevated Installation >25' To 30' Above Floor, Add	35.49	
		For Elevated Installation >30' To 35' Above Floor, Add	40.56	
		For Elevated Installation >35' To 40' Above Floor, Add	50.70	
		For Elevated Installation >40' Above Floor, Add	55.77	
		For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1196	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	153.25	38.62
		For Elevated Installation >10' To 15' Above Floor, Add	7.73	
		For Elevated Installation >15' To 20' Above Floor, Add	15.45	
		For Elevated Installation >20' To 25' Above Floor, Add	19.31	
		For Elevated Installation >25' To 30' Above Floor, Add	27.04	
		For Elevated Installation >30' To 35' Above Floor, Add	30.90	
		For Elevated Installation >35' To 40' Above Floor, Add	38.63	
		For Elevated Installation >40' Above Floor, Add	42.49	
		For Work In Restricted Working Space, Add	23.18	
26 05 33 13-1197	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	166.18	44.26
		For Elevated Installation >10' To 15' Above Floor, Add	8.85	
		For Elevated Installation >15' To 20' Above Floor, Add	17.70	
		For Elevated Installation >20' To 25' Above Floor, Add	22.13	
		For Elevated Installation >25' To 30' Above Floor, Add	30.98	
		For Elevated Installation >30' To 35' Above Floor, Add	35.41	
		For Elevated Installation >35' To 40' Above Floor, Add	44.26	
		For Elevated Installation >40' Above Floor, Add	48.69	
		For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1198	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	189.35	50.69
		For Elevated Installation >10' To 15' Above Floor, Add	10.14	
		For Elevated Installation >15' To 20' Above Floor, Add	20.28	
		For Elevated Installation >20' To 25' Above Floor, Add	25.35	
		For Elevated Installation >25' To 30' Above Floor, Add	35.49	
		For Elevated Installation >30' To 35' Above Floor, Add	40.56	
		For Elevated Installation >35' To 40' Above Floor, Add	50.70	
		For Elevated Installation >40' Above Floor, Add	55.77	
		For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1199		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes (26 05 33 13-0843)		
		Note: Excludes cover.		
26 05 33 13-1200	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	146.06	38.62
		For Elevated Installation >10' To 15' Above Floor, Add	7.73	
		For Elevated Installation >15' To 20' Above Floor, Add	15.45	
		For Elevated Installation >20' To 25' Above Floor, Add	19.31	
		For Elevated Installation >25' To 30' Above Floor, Add	27.04	
		For Elevated Installation >30' To 35' Above Floor, Add	30.90	
		For Elevated Installation >35' To 40' Above Floor, Add	38.63	
		For Elevated Installation >40' Above Floor, Add	42.49	
		For Work In Restricted Working Space, Add	23.18	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1201 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	161.52	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1202 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	177.79	50.69
For Elevated Installation >10' To 15' Above Floor, Add	10.14	
For Elevated Installation >15' To 20' Above Floor, Add	20.28	
For Elevated Installation >20' To 25' Above Floor, Add	25.35	
For Elevated Installation >25' To 30' Above Floor, Add	35.49	
For Elevated Installation >30' To 35' Above Floor, Add	40.56	
For Elevated Installation >35' To 40' Above Floor, Add	50.70	
For Elevated Installation >40' Above Floor, Add	55.77	
For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1203 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	162.47	38.62
For Elevated Installation >10' To 15' Above Floor, Add	7.73	
For Elevated Installation >15' To 20' Above Floor, Add	15.45	
For Elevated Installation >20' To 25' Above Floor, Add	19.31	
For Elevated Installation >25' To 30' Above Floor, Add	27.04	
For Elevated Installation >30' To 35' Above Floor, Add	30.90	
For Elevated Installation >35' To 40' Above Floor, Add	38.63	
For Elevated Installation >40' Above Floor, Add	42.49	
For Work In Restricted Working Space, Add	23.18	
26 05 33 13-1204 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	178.09	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1205 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	201.60	50.69
For Elevated Installation >10' To 15' Above Floor, Add	10.14	
For Elevated Installation >15' To 20' Above Floor, Add	20.28	
For Elevated Installation >20' To 25' Above Floor, Add	25.35	
For Elevated Installation >25' To 30' Above Floor, Add	35.49	
For Elevated Installation >30' To 35' Above Floor, Add	40.56	
For Elevated Installation >35' To 40' Above Floor, Add	50.70	
For Elevated Installation >40' Above Floor, Add	55.77	
For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1206 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers (26 05 33 13-0843)		
26 05 33 13-1207 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	48.24	4.83
For Elevated Installation >10' To 15' Above Floor, Add	0.97	
For Elevated Installation >15' To 20' Above Floor, Add	1.93	
For Elevated Installation >20' To 25' Above Floor, Add	2.41	
For Elevated Installation >25' To 30' Above Floor, Add	3.38	
For Elevated Installation >30' To 35' Above Floor, Add	3.86	
For Elevated Installation >35' To 40' Above Floor, Add	4.83	
For Elevated Installation >40' Above Floor, Add	5.31	
For Work In Restricted Working Space, Add	2.90	
26 05 33 13-1208 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	65.25	5.63
For Elevated Installation >10' To 15' Above Floor, Add	1.13	
For Elevated Installation >15' To 20' Above Floor, Add	2.25	
For Elevated Installation >20' To 25' Above Floor, Add	2.82	
For Elevated Installation >25' To 30' Above Floor, Add	3.94	
For Elevated Installation >30' To 35' Above Floor, Add	4.51	
For Elevated Installation >35' To 40' Above Floor, Add	5.64	
For Elevated Installation >40' Above Floor, Add	6.20	
For Work In Restricted Working Space, Add	3.38	
26 05 33 13-1209 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	61.71	5.63
For Elevated Installation >10' To 15' Above Floor, Add	1.13	
For Elevated Installation >15' To 20' Above Floor, Add	2.25	
For Elevated Installation >20' To 25' Above Floor, Add	2.82	
For Elevated Installation >25' To 30' Above Floor, Add	3.94	
For Elevated Installation >30' To 35' Above Floor, Add	4.51	
For Elevated Installation >35' To 40' Above Floor, Add	5.64	
For Elevated Installation >40' Above Floor, Add	6.20	
For Work In Restricted Working Space, Add	3.38	
26 05 33 13-1210 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	55.11	5.63
For Elevated Installation >10' To 15' Above Floor, Add	1.13	
For Elevated Installation >15' To 20' Above Floor, Add	2.25	
For Elevated Installation >20' To 25' Above Floor, Add	2.82	
For Elevated Installation >25' To 30' Above Floor, Add	3.94	
For Elevated Installation >30' To 35' Above Floor, Add	4.51	
For Elevated Installation >35' To 40' Above Floor, Add	5.64	
For Elevated Installation >40' Above Floor, Add	6.20	
For Work In Restricted Working Space, Add	3.38	



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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
26 05 33 13-1211	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover	261.03	8.05
		For Elevated Installation >10' To 15' Above Floor, Add	1.61	
		For Elevated Installation >15' To 20' Above Floor, Add	3.22	
		For Elevated Installation >20' To 25' Above Floor, Add	4.02	
		For Elevated Installation >25' To 30' Above Floor, Add	5.63	
		For Elevated Installation >30' To 35' Above Floor, Add	6.44	
		For Elevated Installation >35' To 40' Above Floor, Add	8.05	
		For Elevated Installation >40' Above Floor, Add	8.85	
		For Work In Restricted Working Space, Add	4.83	
26 05 33 13-1212	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover	232.38	8.05
		For Elevated Installation >10' To 15' Above Floor, Add	1.61	
		For Elevated Installation >15' To 20' Above Floor, Add	3.22	
		For Elevated Installation >20' To 25' Above Floor, Add	4.02	
		For Elevated Installation >25' To 30' Above Floor, Add	5.63	
		For Elevated Installation >30' To 35' Above Floor, Add	6.44	
		For Elevated Installation >35' To 40' Above Floor, Add	8.05	
		For Elevated Installation >40' Above Floor, Add	8.85	
		For Work In Restricted Working Space, Add	4.83	
26 05 33 13-1213 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies (26 05 33 13-0843)				
Note: Includes covers.				
26 05 33 13-1214	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	289.45	50.69
		For Elevated Installation >10' To 15' Above Floor, Add	10.14	
		For Elevated Installation >15' To 20' Above Floor, Add	20.28	
		For Elevated Installation >20' To 25' Above Floor, Add	25.35	
		For Elevated Installation >25' To 30' Above Floor, Add	35.49	
		For Elevated Installation >30' To 35' Above Floor, Add	40.56	
		For Elevated Installation >35' To 40' Above Floor, Add	50.70	
		For Elevated Installation >40' Above Floor, Add	55.77	
		For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1215	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	325.83	58.74
		For Elevated Installation >10' To 15' Above Floor, Add	11.75	
		For Elevated Installation >15' To 20' Above Floor, Add	23.50	
		For Elevated Installation >20' To 25' Above Floor, Add	29.37	
		For Elevated Installation >25' To 30' Above Floor, Add	41.12	
		For Elevated Installation >30' To 35' Above Floor, Add	47.00	
		For Elevated Installation >35' To 40' Above Floor, Add	58.75	
		For Elevated Installation >40' Above Floor, Add	64.62	
		For Work In Restricted Working Space, Add	35.25	
26 05 33 13-1216	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	443.28	64.38
		For Elevated Installation >10' To 15' Above Floor, Add	12.88	
		For Elevated Installation >15' To 20' Above Floor, Add	25.75	
		For Elevated Installation >20' To 25' Above Floor, Add	32.19	
		For Elevated Installation >25' To 30' Above Floor, Add	45.07	
		For Elevated Installation >30' To 35' Above Floor, Add	51.50	
		For Elevated Installation >35' To 40' Above Floor, Add	64.38	
		For Elevated Installation >40' Above Floor, Add	70.82	
		For Work In Restricted Working Space, Add	38.63	
26 05 33 13-1217	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	528.42	77.25
		For Elevated Installation >10' To 15' Above Floor, Add	15.45	
		For Elevated Installation >15' To 20' Above Floor, Add	30.90	
		For Elevated Installation >20' To 25' Above Floor, Add	38.63	
		For Elevated Installation >25' To 30' Above Floor, Add	54.08	
		For Elevated Installation >30' To 35' Above Floor, Add	61.80	
		For Elevated Installation >35' To 40' Above Floor, Add	77.26	
		For Elevated Installation >40' Above Floor, Add	84.98	
		For Work In Restricted Working Space, Add	46.35	
26 05 33 13-1218	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	762.20	108.63
		For Elevated Installation >10' To 15' Above Floor, Add	21.73	
		For Elevated Installation >15' To 20' Above Floor, Add	43.45	
		For Elevated Installation >20' To 25' Above Floor, Add	54.32	
		For Elevated Installation >25' To 30' Above Floor, Add	76.04	
		For Elevated Installation >30' To 35' Above Floor, Add	86.91	
		For Elevated Installation >35' To 40' Above Floor, Add	108.64	
		For Elevated Installation >40' Above Floor, Add	119.50	
		For Work In Restricted Working Space, Add	65.18	
26 05 33 13-1219	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	964.80	144.84
		For Elevated Installation >10' To 15' Above Floor, Add	28.97	
		For Elevated Installation >15' To 20' Above Floor, Add	57.94	
		For Elevated Installation >20' To 25' Above Floor, Add	72.42	
		For Elevated Installation >25' To 30' Above Floor, Add	101.39	
		For Elevated Installation >30' To 35' Above Floor, Add	115.88	
		For Elevated Installation >35' To 40' Above Floor, Add	144.85	
		For Elevated Installation >40' Above Floor, Add	159.33	
		For Work In Restricted Working Space, Add	86.91	
26 05 33 13-1220	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,401.86	181.06
		For Elevated Installation >10' To 15' Above Floor, Add	36.21	
		For Elevated Installation >15' To 20' Above Floor, Add	72.42	
		For Elevated Installation >20' To 25' Above Floor, Add	90.53	
		For Elevated Installation >25' To 30' Above Floor, Add	126.74	
		For Elevated Installation >30' To 35' Above Floor, Add	144.84	
		For Elevated Installation >35' To 40' Above Floor, Add	181.06	
		For Elevated Installation >40' Above Floor, Add	199.16	
		For Work In Restricted Working Space, Add	108.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1221 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,737.81	220.49
For Elevated Installation >10' To 15' Above Floor, Add	44.10	
For Elevated Installation >15' To 20' Above Floor, Add	88.20	
For Elevated Installation >20' To 25' Above Floor, Add	110.25	
For Elevated Installation >25' To 30' Above Floor, Add	154.34	
For Elevated Installation >30' To 35' Above Floor, Add	176.39	
For Elevated Installation >35' To 40' Above Floor, Add	220.49	
For Elevated Installation >40' Above Floor, Add	242.54	
For Work In Restricted Working Space, Add	132.29	
26 05 33 13-1222 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	289.45	50.69
For Elevated Installation >10' To 15' Above Floor, Add	10.14	
For Elevated Installation >15' To 20' Above Floor, Add	20.28	
For Elevated Installation >20' To 25' Above Floor, Add	25.35	
For Elevated Installation >25' To 30' Above Floor, Add	35.49	
For Elevated Installation >30' To 35' Above Floor, Add	40.56	
For Elevated Installation >35' To 40' Above Floor, Add	50.70	
For Elevated Installation >40' Above Floor, Add	55.77	
For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1223 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	325.83	58.74
For Elevated Installation >10' To 15' Above Floor, Add	11.75	
For Elevated Installation >15' To 20' Above Floor, Add	23.50	
For Elevated Installation >20' To 25' Above Floor, Add	29.37	
For Elevated Installation >25' To 30' Above Floor, Add	41.12	
For Elevated Installation >30' To 35' Above Floor, Add	47.00	
For Elevated Installation >35' To 40' Above Floor, Add	58.75	
For Elevated Installation >40' Above Floor, Add	64.62	
For Work In Restricted Working Space, Add	35.25	
26 05 33 13-1224 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	442.12	64.38
For Elevated Installation >10' To 15' Above Floor, Add	12.88	
For Elevated Installation >15' To 20' Above Floor, Add	25.75	
For Elevated Installation >20' To 25' Above Floor, Add	32.19	
For Elevated Installation >25' To 30' Above Floor, Add	45.07	
For Elevated Installation >30' To 35' Above Floor, Add	51.50	
For Elevated Installation >35' To 40' Above Floor, Add	64.38	
For Elevated Installation >40' Above Floor, Add	70.82	
For Work In Restricted Working Space, Add	38.63	
26 05 33 13-1225 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	516.75	77.25
For Elevated Installation >10' To 15' Above Floor, Add	15.45	
For Elevated Installation >15' To 20' Above Floor, Add	30.90	
For Elevated Installation >20' To 25' Above Floor, Add	38.63	
For Elevated Installation >25' To 30' Above Floor, Add	54.08	
For Elevated Installation >30' To 35' Above Floor, Add	61.80	
For Elevated Installation >35' To 40' Above Floor, Add	77.26	
For Elevated Installation >40' Above Floor, Add	84.98	
For Work In Restricted Working Space, Add	46.35	
26 05 33 13-1226 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	772.94	108.63
For Elevated Installation >10' To 15' Above Floor, Add	21.73	
For Elevated Installation >15' To 20' Above Floor, Add	43.45	
For Elevated Installation >20' To 25' Above Floor, Add	54.32	
For Elevated Installation >25' To 30' Above Floor, Add	76.04	
For Elevated Installation >30' To 35' Above Floor, Add	86.91	
For Elevated Installation >35' To 40' Above Floor, Add	108.64	
For Elevated Installation >40' Above Floor, Add	119.50	
For Work In Restricted Working Space, Add	65.18	
26 05 33 13-1227 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,013.01	144.84
For Elevated Installation >10' To 15' Above Floor, Add	28.97	
For Elevated Installation >15' To 20' Above Floor, Add	57.94	
For Elevated Installation >20' To 25' Above Floor, Add	72.42	
For Elevated Installation >25' To 30' Above Floor, Add	101.39	
For Elevated Installation >30' To 35' Above Floor, Add	115.88	
For Elevated Installation >35' To 40' Above Floor, Add	144.85	
For Elevated Installation >40' Above Floor, Add	159.33	
For Work In Restricted Working Space, Add	86.91	
26 05 33 13-1228 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,460.05	181.06
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	
For Work In Restricted Working Space, Add	108.63	
26 05 33 13-1229 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,774.04	220.49
For Elevated Installation >10' To 15' Above Floor, Add	44.10	
For Elevated Installation >15' To 20' Above Floor, Add	88.20	
For Elevated Installation >20' To 25' Above Floor, Add	110.25	
For Elevated Installation >25' To 30' Above Floor, Add	154.34	
For Elevated Installation >30' To 35' Above Floor, Add	176.39	
For Elevated Installation >35' To 40' Above Floor, Add	220.49	
For Elevated Installation >40' Above Floor, Add	242.54	
For Work In Restricted Working Space, Add	132.29	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1230	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	289.45	50.69
		For Elevated Installation >10' To 15' Above Floor, Add	10.14	
		For Elevated Installation >15' To 20' Above Floor, Add	20.28	
		For Elevated Installation >20' To 25' Above Floor, Add	25.35	
		For Elevated Installation >25' To 30' Above Floor, Add	35.49	
		For Elevated Installation >30' To 35' Above Floor, Add	40.56	
		For Elevated Installation >35' To 40' Above Floor, Add	50.70	
		For Elevated Installation >40' Above Floor, Add	55.77	
		For Work In Restricted Working Space, Add	30.42	
26 05 33 13-1231	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	325.83	58.74
		For Elevated Installation >10' To 15' Above Floor, Add	11.75	
		For Elevated Installation >15' To 20' Above Floor, Add	23.50	
		For Elevated Installation >20' To 25' Above Floor, Add	29.37	
		For Elevated Installation >25' To 30' Above Floor, Add	41.12	
		For Elevated Installation >30' To 35' Above Floor, Add	47.00	
		For Elevated Installation >35' To 40' Above Floor, Add	58.75	
		For Elevated Installation >40' Above Floor, Add	64.62	
		For Work In Restricted Working Space, Add	35.25	
26 05 33 13-1232	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	442.12	64.38
		For Elevated Installation >10' To 15' Above Floor, Add	12.88	
		For Elevated Installation >15' To 20' Above Floor, Add	25.75	
		For Elevated Installation >20' To 25' Above Floor, Add	32.19	
		For Elevated Installation >25' To 30' Above Floor, Add	45.07	
		For Elevated Installation >30' To 35' Above Floor, Add	51.50	
		For Elevated Installation >35' To 40' Above Floor, Add	64.38	
		For Elevated Installation >40' Above Floor, Add	70.82	
		For Work In Restricted Working Space, Add	38.63	
26 05 33 13-1233	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	516.75	77.25
		For Elevated Installation >10' To 15' Above Floor, Add	15.45	
		For Elevated Installation >15' To 20' Above Floor, Add	30.90	
		For Elevated Installation >20' To 25' Above Floor, Add	38.63	
		For Elevated Installation >25' To 30' Above Floor, Add	54.08	
		For Elevated Installation >30' To 35' Above Floor, Add	61.80	
		For Elevated Installation >35' To 40' Above Floor, Add	77.26	
		For Elevated Installation >40' Above Floor, Add	84.98	
		For Work In Restricted Working Space, Add	46.35	
26 05 33 13-1234	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	772.94	108.63
		For Elevated Installation >10' To 15' Above Floor, Add	21.73	
		For Elevated Installation >15' To 20' Above Floor, Add	43.45	
		For Elevated Installation >20' To 25' Above Floor, Add	54.32	
		For Elevated Installation >25' To 30' Above Floor, Add	76.04	
		For Elevated Installation >30' To 35' Above Floor, Add	86.91	
		For Elevated Installation >35' To 40' Above Floor, Add	108.64	
		For Elevated Installation >40' Above Floor, Add	119.50	
		For Work In Restricted Working Space, Add	65.18	
26 05 33 13-1235	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,013.01	144.84
		For Elevated Installation >10' To 15' Above Floor, Add	28.97	
		For Elevated Installation >15' To 20' Above Floor, Add	57.94	
		For Elevated Installation >20' To 25' Above Floor, Add	72.42	
		For Elevated Installation >25' To 30' Above Floor, Add	101.39	
		For Elevated Installation >30' To 35' Above Floor, Add	115.88	
		For Elevated Installation >35' To 40' Above Floor, Add	144.85	
		For Elevated Installation >40' Above Floor, Add	159.33	
		For Work In Restricted Working Space, Add	86.91	
26 05 33 13-1236	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,460.05	181.06
		For Elevated Installation >10' To 15' Above Floor, Add	36.21	
		For Elevated Installation >15' To 20' Above Floor, Add	72.42	
		For Elevated Installation >20' To 25' Above Floor, Add	90.53	
		For Elevated Installation >25' To 30' Above Floor, Add	126.74	
		For Elevated Installation >30' To 35' Above Floor, Add	144.84	
		For Elevated Installation >35' To 40' Above Floor, Add	181.06	
		For Elevated Installation >40' Above Floor, Add	199.16	
		For Work In Restricted Working Space, Add	108.63	
26 05 33 13-1237	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,774.04	220.49
		For Elevated Installation >10' To 15' Above Floor, Add	44.10	
		For Elevated Installation >15' To 20' Above Floor, Add	88.20	
		For Elevated Installation >20' To 25' Above Floor, Add	110.25	
		For Elevated Installation >25' To 30' Above Floor, Add	154.34	
		For Elevated Installation >30' To 35' Above Floor, Add	176.39	
		For Elevated Installation >35' To 40' Above Floor, Add	220.49	
		For Elevated Installation >40' Above Floor, Add	242.54	
		For Work In Restricted Working Space, Add	132.29	
26 05 33 13-1238	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	289.45	50.69
		For Elevated Installation >10' To 15' Above Floor, Add	10.14	
		For Elevated Installation >15' To 20' Above Floor, Add	20.28	
		For Elevated Installation >20' To 25' Above Floor, Add	25.35	
		For Elevated Installation >25' To 30' Above Floor, Add	35.49	
		For Elevated Installation >30' To 35' Above Floor, Add	40.56	
		For Elevated Installation >35' To 40' Above Floor, Add	50.70	
		For Elevated Installation >40' Above Floor, Add	55.77	
		For Work In Restricted Working Space, Add	30.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1239 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	325.83	58.74
For Elevated Installation >10' To 15' Above Floor, Add	11.75	
For Elevated Installation >15' To 20' Above Floor, Add	23.50	
For Elevated Installation >20' To 25' Above Floor, Add	29.37	
For Elevated Installation >25' To 30' Above Floor, Add	41.12	
For Elevated Installation >30' To 35' Above Floor, Add	47.00	
For Elevated Installation >35' To 40' Above Floor, Add	58.75	
For Elevated Installation >40' Above Floor, Add	64.62	
For Work In Restricted Working Space, Add	35.25	
26 05 33 13-1240 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	443.28	64.38
For Elevated Installation >10' To 15' Above Floor, Add	12.88	
For Elevated Installation >15' To 20' Above Floor, Add	25.75	
For Elevated Installation >20' To 25' Above Floor, Add	32.19	
For Elevated Installation >25' To 30' Above Floor, Add	45.07	
For Elevated Installation >30' To 35' Above Floor, Add	51.50	
For Elevated Installation >35' To 40' Above Floor, Add	64.38	
For Elevated Installation >40' Above Floor, Add	70.82	
For Work In Restricted Working Space, Add	38.63	
26 05 33 13-1241 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	523.03	77.25
For Elevated Installation >10' To 15' Above Floor, Add	15.45	
For Elevated Installation >15' To 20' Above Floor, Add	30.90	
For Elevated Installation >20' To 25' Above Floor, Add	38.63	
For Elevated Installation >25' To 30' Above Floor, Add	54.08	
For Elevated Installation >30' To 35' Above Floor, Add	61.80	
For Elevated Installation >35' To 40' Above Floor, Add	77.26	
For Elevated Installation >40' Above Floor, Add	84.98	
For Work In Restricted Working Space, Add	46.35	
26 05 33 13-1242 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	762.20	108.63
For Elevated Installation >10' To 15' Above Floor, Add	21.73	
For Elevated Installation >15' To 20' Above Floor, Add	43.45	
For Elevated Installation >20' To 25' Above Floor, Add	54.32	
For Elevated Installation >25' To 30' Above Floor, Add	76.04	
For Elevated Installation >30' To 35' Above Floor, Add	86.91	
For Elevated Installation >35' To 40' Above Floor, Add	108.64	
For Elevated Installation >40' Above Floor, Add	119.50	
For Work In Restricted Working Space, Add	65.18	
26 05 33 13-1243 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	964.80	144.84
For Elevated Installation >10' To 15' Above Floor, Add	28.97	
For Elevated Installation >15' To 20' Above Floor, Add	57.94	
For Elevated Installation >20' To 25' Above Floor, Add	72.42	
For Elevated Installation >25' To 30' Above Floor, Add	101.39	
For Elevated Installation >30' To 35' Above Floor, Add	115.88	
For Elevated Installation >35' To 40' Above Floor, Add	144.85	
For Elevated Installation >40' Above Floor, Add	159.33	
For Work In Restricted Working Space, Add	86.91	
26 05 33 13-1244 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,401.86	181.06
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	
For Work In Restricted Working Space, Add	108.63	
26 05 33 13-1245 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,752.90	220.49
For Elevated Installation >10' To 15' Above Floor, Add	44.10	
For Elevated Installation >15' To 20' Above Floor, Add	88.20	
For Elevated Installation >20' To 25' Above Floor, Add	110.25	
For Elevated Installation >25' To 30' Above Floor, Add	154.34	
For Elevated Installation >30' To 35' Above Floor, Add	176.39	
For Elevated Installation >35' To 40' Above Floor, Add	220.49	
For Elevated Installation >40' Above Floor, Add	242.54	
For Work In Restricted Working Space, Add	132.29	
26 05 33 13-1246 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers (26 05 33 13-0843)		
26 05 33 13-1247 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	137.01	7.24
For Elevated Installation >10' To 15' Above Floor, Add	1.45	
For Elevated Installation >15' To 20' Above Floor, Add	2.90	
For Elevated Installation >20' To 25' Above Floor, Add	3.62	
For Elevated Installation >25' To 30' Above Floor, Add	5.07	
For Elevated Installation >30' To 35' Above Floor, Add	5.80	
For Elevated Installation >35' To 40' Above Floor, Add	7.25	
For Elevated Installation >40' Above Floor, Add	7.97	
For Work In Restricted Working Space, Add	4.35	
26 05 33 13-1248 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	138.61	8.05
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Work In Restricted Working Space, Add	4.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1249	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	195.91	11.27
			For Elevated Installation >10' To 15' Above Floor, Add	2.25	
			For Elevated Installation >15' To 20' Above Floor, Add	4.51	
			For Elevated Installation >20' To 25' Above Floor, Add	5.63	
			For Elevated Installation >25' To 30' Above Floor, Add	7.89	
			For Elevated Installation >30' To 35' Above Floor, Add	9.01	
			For Elevated Installation >35' To 40' Above Floor, Add	11.27	
			For Elevated Installation >40' Above Floor, Add	12.39	
			For Work In Restricted Working Space, Add	6.76	
26 05 33 13-1250	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	199.13	12.87
			For Elevated Installation >10' To 15' Above Floor, Add	2.58	
			For Elevated Installation >15' To 20' Above Floor, Add	5.15	
			For Elevated Installation >20' To 25' Above Floor, Add	6.44	
			For Elevated Installation >25' To 30' Above Floor, Add	9.01	
			For Elevated Installation >30' To 35' Above Floor, Add	10.30	
			For Elevated Installation >35' To 40' Above Floor, Add	12.88	
			For Elevated Installation >40' Above Floor, Add	14.16	
			For Work In Restricted Working Space, Add	7.73	
26 05 33 13-1251	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	345.18	15.29
			For Elevated Installation >10' To 15' Above Floor, Add	3.06	
			For Elevated Installation >15' To 20' Above Floor, Add	6.11	
			For Elevated Installation >20' To 25' Above Floor, Add	7.64	
			For Elevated Installation >25' To 30' Above Floor, Add	10.70	
			For Elevated Installation >30' To 35' Above Floor, Add	12.23	
			For Elevated Installation >35' To 40' Above Floor, Add	15.29	
			For Elevated Installation >40' Above Floor, Add	16.81	
			For Work In Restricted Working Space, Add	9.17	
26 05 33 13-1252	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	353.23	19.32
			For Elevated Installation >10' To 15' Above Floor, Add	3.86	
			For Elevated Installation >15' To 20' Above Floor, Add	7.72	
			For Elevated Installation >20' To 25' Above Floor, Add	9.66	
			For Elevated Installation >25' To 30' Above Floor, Add	13.52	
			For Elevated Installation >30' To 35' Above Floor, Add	15.45	
			For Elevated Installation >35' To 40' Above Floor, Add	19.31	
			For Elevated Installation >40' Above Floor, Add	21.24	
			For Work In Restricted Working Space, Add	11.59	
26 05 33 13-1253	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	529.21	21.72
			For Elevated Installation >10' To 15' Above Floor, Add	4.35	
			For Elevated Installation >15' To 20' Above Floor, Add	8.69	
			For Elevated Installation >20' To 25' Above Floor, Add	10.87	
			For Elevated Installation >25' To 30' Above Floor, Add	15.21	
			For Elevated Installation >30' To 35' Above Floor, Add	17.38	
			For Elevated Installation >35' To 40' Above Floor, Add	21.73	
			For Elevated Installation >40' Above Floor, Add	23.90	
			For Work In Restricted Working Space, Add	13.04	
26 05 33 13-1254	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	542.08	28.17
			For Elevated Installation >10' To 15' Above Floor, Add	5.63	
			For Elevated Installation >15' To 20' Above Floor, Add	11.27	
			For Elevated Installation >20' To 25' Above Floor, Add	14.08	
			For Elevated Installation >25' To 30' Above Floor, Add	19.72	
			For Elevated Installation >30' To 35' Above Floor, Add	22.53	
			For Elevated Installation >35' To 40' Above Floor, Add	28.17	
			For Elevated Installation >40' Above Floor, Add	30.98	
			For Work In Restricted Working Space, Add	16.90	
26 05 33 13-1255			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings (26 05 33 13-0843)		
26 05 33 13-1256	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	238.87	20.12
			For Elevated Installation >10' To 15' Above Floor, Add	4.02	
			For Elevated Installation >15' To 20' Above Floor, Add	8.05	
			For Elevated Installation >20' To 25' Above Floor, Add	10.06	
			For Elevated Installation >25' To 30' Above Floor, Add	14.08	
			For Elevated Installation >30' To 35' Above Floor, Add	16.10	
			For Elevated Installation >35' To 40' Above Floor, Add	20.12	
			For Elevated Installation >40' Above Floor, Add	22.13	
			For Work In Restricted Working Space, Add	12.07	
26 05 33 13-1257	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	282.68	24.94
			For Elevated Installation >10' To 15' Above Floor, Add	4.99	
			For Elevated Installation >15' To 20' Above Floor, Add	9.98	
			For Elevated Installation >20' To 25' Above Floor, Add	12.47	
			For Elevated Installation >25' To 30' Above Floor, Add	17.46	
			For Elevated Installation >30' To 35' Above Floor, Add	19.96	
			For Elevated Installation >35' To 40' Above Floor, Add	24.95	
			For Elevated Installation >40' Above Floor, Add	27.44	
			For Work In Restricted Working Space, Add	14.97	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1258 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	335.01	30.57
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
For Work In Restricted Working Space, Add	18.35	
26 05 33 13-1259 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	411.83	35.41
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-1260 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	547.82	40.24
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Work In Restricted Working Space, Add	24.14	
26 05 33 13-1261 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	754.09	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1262 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,074.02	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
For Work In Restricted Working Space, Add	33.32	
26 05 33 13-1263 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,338.01	75.64
For Elevated Installation >10' To 15' Above Floor, Add	15.13	
For Elevated Installation >15' To 20' Above Floor, Add	30.26	
For Elevated Installation >20' To 25' Above Floor, Add	37.82	
For Elevated Installation >25' To 30' Above Floor, Add	52.95	
For Elevated Installation >30' To 35' Above Floor, Add	60.52	
For Elevated Installation >35' To 40' Above Floor, Add	75.65	
For Elevated Installation >40' Above Floor, Add	83.21	
For Work In Restricted Working Space, Add	45.39	
26 05 33 13-1264 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,869.29	85.30
For Elevated Installation >10' To 15' Above Floor, Add	17.06	
For Elevated Installation >15' To 20' Above Floor, Add	34.12	
For Elevated Installation >20' To 25' Above Floor, Add	42.65	
For Elevated Installation >25' To 30' Above Floor, Add	59.71	
For Elevated Installation >30' To 35' Above Floor, Add	68.24	
For Elevated Installation >35' To 40' Above Floor, Add	85.30	
For Elevated Installation >40' Above Floor, Add	93.83	
For Work In Restricted Working Space, Add	51.18	
26 05 33 13-1265 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,159.31	111.05
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
For Work In Restricted Working Space, Add	66.63	
26 05 33 13-1266 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper		
(26 05 33 13-0843)		
26 05 33 13-1267 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	374.95	20.12
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.05	
For Elevated Installation >20' To 25' Above Floor, Add	10.06	
For Elevated Installation >25' To 30' Above Floor, Add	14.08	
For Elevated Installation >30' To 35' Above Floor, Add	16.10	
For Elevated Installation >35' To 40' Above Floor, Add	20.12	
For Elevated Installation >40' Above Floor, Add	22.13	
For Work In Restricted Working Space, Add	12.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1268	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	390.91	24.94
			For Elevated Installation >10' To 15' Above Floor, Add	4.99	
			For Elevated Installation >15' To 20' Above Floor, Add	9.98	
			For Elevated Installation >20' To 25' Above Floor, Add	12.47	
			For Elevated Installation >25' To 30' Above Floor, Add	17.46	
			For Elevated Installation >30' To 35' Above Floor, Add	19.96	
			For Elevated Installation >35' To 40' Above Floor, Add	24.95	
			For Elevated Installation >40' Above Floor, Add	27.44	
			For Work In Restricted Working Space, Add	14.97	
26 05 33 13-1269	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	440.03	30.57
			For Elevated Installation >10' To 15' Above Floor, Add	6.12	
			For Elevated Installation >15' To 20' Above Floor, Add	12.23	
			For Elevated Installation >20' To 25' Above Floor, Add	15.29	
			For Elevated Installation >25' To 30' Above Floor, Add	21.41	
			For Elevated Installation >30' To 35' Above Floor, Add	24.46	
			For Elevated Installation >35' To 40' Above Floor, Add	30.58	
			For Elevated Installation >40' Above Floor, Add	33.64	
			For Work In Restricted Working Space, Add	18.35	
26 05 33 13-1270	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	531.85	35.41
			For Elevated Installation >10' To 15' Above Floor, Add	7.08	
			For Elevated Installation >15' To 20' Above Floor, Add	14.16	
			For Elevated Installation >20' To 25' Above Floor, Add	17.70	
			For Elevated Installation >25' To 30' Above Floor, Add	24.78	
			For Elevated Installation >30' To 35' Above Floor, Add	28.32	
			For Elevated Installation >35' To 40' Above Floor, Add	35.41	
			For Elevated Installation >40' Above Floor, Add	38.95	
			For Work In Restricted Working Space, Add	21.24	
26 05 33 13-1271	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	643.65	40.24
			For Elevated Installation >10' To 15' Above Floor, Add	8.05	
			For Elevated Installation >15' To 20' Above Floor, Add	16.09	
			For Elevated Installation >20' To 25' Above Floor, Add	20.12	
			For Elevated Installation >25' To 30' Above Floor, Add	28.16	
			For Elevated Installation >30' To 35' Above Floor, Add	32.19	
			For Elevated Installation >35' To 40' Above Floor, Add	40.24	
			For Elevated Installation >40' Above Floor, Add	44.26	
			For Work In Restricted Working Space, Add	24.14	
26 05 33 13-1272	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	820.06	44.26
			For Elevated Installation >10' To 15' Above Floor, Add	8.85	
			For Elevated Installation >15' To 20' Above Floor, Add	17.70	
			For Elevated Installation >20' To 25' Above Floor, Add	22.13	
			For Elevated Installation >25' To 30' Above Floor, Add	30.98	
			For Elevated Installation >30' To 35' Above Floor, Add	35.41	
			For Elevated Installation >35' To 40' Above Floor, Add	44.26	
			For Elevated Installation >40' Above Floor, Add	48.69	
			For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1273	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,206.91	55.53
			For Elevated Installation >10' To 15' Above Floor, Add	11.11	
			For Elevated Installation >15' To 20' Above Floor, Add	22.21	
			For Elevated Installation >20' To 25' Above Floor, Add	27.76	
			For Elevated Installation >25' To 30' Above Floor, Add	38.87	
			For Elevated Installation >30' To 35' Above Floor, Add	44.42	
			For Elevated Installation >35' To 40' Above Floor, Add	55.53	
			For Elevated Installation >40' Above Floor, Add	61.08	
			For Work In Restricted Working Space, Add	33.32	
26 05 33 13-1274	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,515.59	75.64
			For Elevated Installation >10' To 15' Above Floor, Add	15.13	
			For Elevated Installation >15' To 20' Above Floor, Add	30.26	
			For Elevated Installation >20' To 25' Above Floor, Add	37.82	
			For Elevated Installation >25' To 30' Above Floor, Add	52.95	
			For Elevated Installation >30' To 35' Above Floor, Add	60.52	
			For Elevated Installation >35' To 40' Above Floor, Add	75.65	
			For Elevated Installation >40' Above Floor, Add	83.21	
			For Work In Restricted Working Space, Add	45.39	
26 05 33 13-1275	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,926.62	85.30
			For Elevated Installation >10' To 15' Above Floor, Add	17.06	
			For Elevated Installation >15' To 20' Above Floor, Add	34.12	
			For Elevated Installation >20' To 25' Above Floor, Add	42.65	
			For Elevated Installation >25' To 30' Above Floor, Add	59.71	
			For Elevated Installation >30' To 35' Above Floor, Add	68.24	
			For Elevated Installation >35' To 40' Above Floor, Add	85.30	
			For Elevated Installation >40' Above Floor, Add	93.83	
			For Work In Restricted Working Space, Add	51.18	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1276 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,413.22	111.05
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
For Work In Restricted Working Space, Add	66.63	
26 05 33 13-1277 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0843)		
26 05 33 13-1278 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	80.09	9.65
For Elevated Installation >10' To 15' Above Floor, Add	1.93	
For Elevated Installation >15' To 20' Above Floor, Add	3.86	
For Elevated Installation >20' To 25' Above Floor, Add	4.83	
For Elevated Installation >25' To 30' Above Floor, Add	6.76	
For Elevated Installation >30' To 35' Above Floor, Add	7.73	
For Elevated Installation >35' To 40' Above Floor, Add	9.66	
For Elevated Installation >40' Above Floor, Add	10.63	
For Work In Restricted Working Space, Add	5.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 05 33 13-1279 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	87.48	12.07
For Elevated Installation >10' To 15' Above Floor, Add	2.41	
For Elevated Installation >15' To 20' Above Floor, Add	4.83	
For Elevated Installation >20' To 25' Above Floor, Add	6.04	
For Elevated Installation >25' To 30' Above Floor, Add	8.45	
For Elevated Installation >30' To 35' Above Floor, Add	9.66	
For Elevated Installation >35' To 40' Above Floor, Add	12.07	
For Elevated Installation >40' Above Floor, Add	13.28	
For Work In Restricted Working Space, Add	7.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-1280 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	96.72	14.49
For Elevated Installation >10' To 15' Above Floor, Add	2.90	
For Elevated Installation >15' To 20' Above Floor, Add	5.79	
For Elevated Installation >20' To 25' Above Floor, Add	7.24	
For Elevated Installation >25' To 30' Above Floor, Add	10.14	
For Elevated Installation >30' To 35' Above Floor, Add	11.59	
For Elevated Installation >35' To 40' Above Floor, Add	14.49	
For Elevated Installation >40' Above Floor, Add	15.93	
For Work In Restricted Working Space, Add	8.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.69	
26 05 33 13-1281 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	109.96	17.70
For Elevated Installation >10' To 15' Above Floor, Add	3.54	
For Elevated Installation >15' To 20' Above Floor, Add	7.08	
For Elevated Installation >20' To 25' Above Floor, Add	8.85	
For Elevated Installation >25' To 30' Above Floor, Add	12.39	
For Elevated Installation >30' To 35' Above Floor, Add	14.16	
For Elevated Installation >35' To 40' Above Floor, Add	17.71	
For Elevated Installation >40' Above Floor, Add	19.48	
For Work In Restricted Working Space, Add	10.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1282 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	146.42	20.12
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.05	
For Elevated Installation >20' To 25' Above Floor, Add	10.06	
For Elevated Installation >25' To 30' Above Floor, Add	14.08	
For Elevated Installation >30' To 35' Above Floor, Add	16.10	
For Elevated Installation >35' To 40' Above Floor, Add	20.12	
For Elevated Installation >40' Above Floor, Add	22.13	
For Work In Restricted Working Space, Add	12.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1283 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	178.09	22.53
For Elevated Installation >10' To 15' Above Floor, Add	4.51	
For Elevated Installation >15' To 20' Above Floor, Add	9.01	
For Elevated Installation >20' To 25' Above Floor, Add	11.27	
For Elevated Installation >25' To 30' Above Floor, Add	15.77	
For Elevated Installation >30' To 35' Above Floor, Add	18.02	
For Elevated Installation >35' To 40' Above Floor, Add	22.53	
For Elevated Installation >40' Above Floor, Add	24.78	
For Work In Restricted Working Space, Add	13.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-1284 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	253.30	28.17
For Elevated Installation >10' To 15' Above Floor, Add	5.63	
For Elevated Installation >15' To 20' Above Floor, Add	11.27	
For Elevated Installation >20' To 25' Above Floor, Add	14.08	
For Elevated Installation >25' To 30' Above Floor, Add	19.72	
For Elevated Installation >30' To 35' Above Floor, Add	22.53	
For Elevated Installation >35' To 40' Above Floor, Add	28.17	
For Elevated Installation >40' Above Floor, Add	30.98	
For Work In Restricted Working Space, Add	16.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1285	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 331.10		37.82
			For Elevated Installation >10' To 15' Above Floor, Add	7.56	
			For Elevated Installation >15' To 20' Above Floor, Add	15.13	
			For Elevated Installation >20' To 25' Above Floor, Add	18.91	
			For Elevated Installation >25' To 30' Above Floor, Add	26.47	
			For Elevated Installation >30' To 35' Above Floor, Add	30.26	
			For Elevated Installation >35' To 40' Above Floor, Add	37.82	
			For Elevated Installation >40' Above Floor, Add	41.60	
			For Work In Restricted Working Space, Add	22.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.69	
26 05 33 13-1286	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 420.50		42.65
			For Elevated Installation >10' To 15' Above Floor, Add	8.53	
			For Elevated Installation >15' To 20' Above Floor, Add	17.06	
			For Elevated Installation >20' To 25' Above Floor, Add	21.33	
			For Elevated Installation >25' To 30' Above Floor, Add	29.86	
			For Elevated Installation >30' To 35' Above Floor, Add	34.12	
			For Elevated Installation >35' To 40' Above Floor, Add	42.65	
			For Elevated Installation >40' Above Floor, Add	46.92	
			For Work In Restricted Working Space, Add	25.59	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.59	
26 05 33 13-1287	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 529.62		55.53
			For Elevated Installation >10' To 15' Above Floor, Add	11.11	
			For Elevated Installation >15' To 20' Above Floor, Add	22.21	
			For Elevated Installation >20' To 25' Above Floor, Add	27.76	
			For Elevated Installation >25' To 30' Above Floor, Add	38.87	
			For Elevated Installation >30' To 35' Above Floor, Add	44.42	
			For Elevated Installation >35' To 40' Above Floor, Add	55.53	
			For Elevated Installation >40' Above Floor, Add	61.08	
			For Work In Restricted Working Space, Add	33.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.32	
26 05 33 13-1288	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 667.04		90.13
			For Elevated Installation >10' To 15' Above Floor, Add	18.03	
			For Elevated Installation >15' To 20' Above Floor, Add	36.05	
			For Elevated Installation >20' To 25' Above Floor, Add	45.06	
			For Elevated Installation >25' To 30' Above Floor, Add	63.09	
			For Elevated Installation >30' To 35' Above Floor, Add	72.10	
			For Elevated Installation >35' To 40' Above Floor, Add	90.13	
			For Elevated Installation >40' Above Floor, Add	99.14	
			For Work In Restricted Working Space, Add	54.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.08	
26 05 33 13-1289	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 1,006.03		135.99
			For Elevated Installation >10' To 15' Above Floor, Add	27.20	
			For Elevated Installation >15' To 20' Above Floor, Add	54.40	
			For Elevated Installation >20' To 25' Above Floor, Add	68.00	
			For Elevated Installation >25' To 30' Above Floor, Add	95.20	
			For Elevated Installation >30' To 35' Above Floor, Add	108.80	
			For Elevated Installation >35' To 40' Above Floor, Add	136.00	
			For Elevated Installation >40' Above Floor, Add	149.59	
			For Work In Restricted Working Space, Add	81.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.60	
26 05 33 13-1290			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0843)		
26 05 33 13-1291	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 118.75		9.65
			For Elevated Installation >10' To 15' Above Floor, Add	1.93	
			For Elevated Installation >15' To 20' Above Floor, Add	3.86	
			For Elevated Installation >20' To 25' Above Floor, Add	4.83	
			For Elevated Installation >25' To 30' Above Floor, Add	6.76	
			For Elevated Installation >30' To 35' Above Floor, Add	7.73	
			For Elevated Installation >35' To 40' Above Floor, Add	9.66	
			For Elevated Installation >40' Above Floor, Add	10.63	
			For Work In Restricted Working Space, Add	5.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 05 33 13-1292	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 126.41		12.07
			For Elevated Installation >10' To 15' Above Floor, Add	2.41	
			For Elevated Installation >15' To 20' Above Floor, Add	4.83	
			For Elevated Installation >20' To 25' Above Floor, Add	6.04	
			For Elevated Installation >25' To 30' Above Floor, Add	8.45	
			For Elevated Installation >30' To 35' Above Floor, Add	9.66	
			For Elevated Installation >35' To 40' Above Floor, Add	12.07	
			For Elevated Installation >40' Above Floor, Add	13.28	
			For Work In Restricted Working Space, Add	7.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-1293	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 136.51		14.49
			For Elevated Installation >10' To 15' Above Floor, Add	2.90	
			For Elevated Installation >15' To 20' Above Floor, Add	5.79	
			For Elevated Installation >20' To 25' Above Floor, Add	7.24	
			For Elevated Installation >25' To 30' Above Floor, Add	10.14	
			For Elevated Installation >30' To 35' Above Floor, Add	11.59	
			For Elevated Installation >35' To 40' Above Floor, Add	14.49	
			For Elevated Installation >40' Above Floor, Add	15.93	
			For Work In Restricted Working Space, Add	8.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.69	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1294	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 156.36	156.36	17.70
		For Elevated Installation >10' To 15' Above Floor, Add	3.54	
		For Elevated Installation >15' To 20' Above Floor, Add	7.08	
		For Elevated Installation >20' To 25' Above Floor, Add	8.85	
		For Elevated Installation >25' To 30' Above Floor, Add	12.39	
		For Elevated Installation >30' To 35' Above Floor, Add	14.16	
		For Elevated Installation >35' To 40' Above Floor, Add	17.71	
		For Elevated Installation >40' Above Floor, Add	19.48	
		For Work In Restricted Working Space, Add	10.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1295	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 168.33	168.33	20.12
		For Elevated Installation >10' To 15' Above Floor, Add	4.02	
		For Elevated Installation >15' To 20' Above Floor, Add	8.05	
		For Elevated Installation >20' To 25' Above Floor, Add	10.06	
		For Elevated Installation >25' To 30' Above Floor, Add	14.08	
		For Elevated Installation >30' To 35' Above Floor, Add	16.10	
		For Elevated Installation >35' To 40' Above Floor, Add	20.12	
		For Elevated Installation >40' Above Floor, Add	22.13	
		For Work In Restricted Working Space, Add	12.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1296	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 190.29	190.29	22.53
		For Elevated Installation >10' To 15' Above Floor, Add	4.51	
		For Elevated Installation >15' To 20' Above Floor, Add	9.01	
		For Elevated Installation >20' To 25' Above Floor, Add	11.27	
		For Elevated Installation >25' To 30' Above Floor, Add	15.77	
		For Elevated Installation >30' To 35' Above Floor, Add	18.02	
		For Elevated Installation >35' To 40' Above Floor, Add	22.53	
		For Elevated Installation >40' Above Floor, Add	24.78	
		For Work In Restricted Working Space, Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-1297	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 287.55	287.55	28.17
		For Elevated Installation >10' To 15' Above Floor, Add	5.63	
		For Elevated Installation >15' To 20' Above Floor, Add	11.27	
		For Elevated Installation >20' To 25' Above Floor, Add	14.08	
		For Elevated Installation >25' To 30' Above Floor, Add	19.72	
		For Elevated Installation >30' To 35' Above Floor, Add	22.53	
		For Elevated Installation >35' To 40' Above Floor, Add	28.17	
		For Elevated Installation >40' Above Floor, Add	30.98	
		For Work In Restricted Working Space, Add	16.90	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.90	
26 05 33 13-1298	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 345.86	345.86	37.82
		For Elevated Installation >10' To 15' Above Floor, Add	7.56	
		For Elevated Installation >15' To 20' Above Floor, Add	15.13	
		For Elevated Installation >20' To 25' Above Floor, Add	18.91	
		For Elevated Installation >25' To 30' Above Floor, Add	26.47	
		For Elevated Installation >30' To 35' Above Floor, Add	30.26	
		For Elevated Installation >35' To 40' Above Floor, Add	37.82	
		For Elevated Installation >40' Above Floor, Add	41.60	
		For Work In Restricted Working Space, Add	22.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.69	
26 05 33 13-1299	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 423.69	423.69	42.65
		For Elevated Installation >10' To 15' Above Floor, Add	8.53	
		For Elevated Installation >15' To 20' Above Floor, Add	17.06	
		For Elevated Installation >20' To 25' Above Floor, Add	21.33	
		For Elevated Installation >25' To 30' Above Floor, Add	29.86	
		For Elevated Installation >30' To 35' Above Floor, Add	34.12	
		For Elevated Installation >35' To 40' Above Floor, Add	42.65	
		For Elevated Installation >40' Above Floor, Add	46.92	
		For Work In Restricted Working Space, Add	25.59	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.59	
26 05 33 13-1300	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 550.21	550.21	55.53
		For Elevated Installation >10' To 15' Above Floor, Add	11.11	
		For Elevated Installation >15' To 20' Above Floor, Add	22.21	
		For Elevated Installation >20' To 25' Above Floor, Add	27.76	
		For Elevated Installation >25' To 30' Above Floor, Add	38.87	
		For Elevated Installation >30' To 35' Above Floor, Add	44.42	
		For Elevated Installation >35' To 40' Above Floor, Add	55.53	
		For Elevated Installation >40' Above Floor, Add	61.08	
		For Work In Restricted Working Space, Add	33.32	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.32	
26 05 33 13-1301	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 857.44	857.44	90.13
		For Elevated Installation >10' To 15' Above Floor, Add	18.03	
		For Elevated Installation >15' To 20' Above Floor, Add	36.05	
		For Elevated Installation >20' To 25' Above Floor, Add	45.06	
		For Elevated Installation >25' To 30' Above Floor, Add	63.09	
		For Elevated Installation >30' To 35' Above Floor, Add	72.10	
		For Elevated Installation >35' To 40' Above Floor, Add	90.13	
		For Elevated Installation >40' Above Floor, Add	99.14	
		For Work In Restricted Working Space, Add	54.08	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1302	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,398.42	135.99
			For Elevated Installation >10' To 15' Above Floor, Add	27.20	
			For Elevated Installation >15' To 20' Above Floor, Add	54.40	
			For Elevated Installation >20' To 25' Above Floor, Add	68.00	
			For Elevated Installation >25' To 30' Above Floor, Add	95.20	
			For Elevated Installation >30' To 35' Above Floor, Add	108.80	
			For Elevated Installation >35' To 40' Above Floor, Add	136.00	
			For Elevated Installation >40' Above Floor, Add	149.59	
			For Work In Restricted Working Space, Add	81.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.60	
26 05 33 13-1303			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0843)		
26 05 33 13-1304	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	127.35	9.65
			For Elevated Installation >10' To 15' Above Floor, Add	1.93	
			For Elevated Installation >15' To 20' Above Floor, Add	3.86	
			For Elevated Installation >20' To 25' Above Floor, Add	4.83	
			For Elevated Installation >25' To 30' Above Floor, Add	6.76	
			For Elevated Installation >30' To 35' Above Floor, Add	7.73	
			For Elevated Installation >35' To 40' Above Floor, Add	9.66	
			For Elevated Installation >40' Above Floor, Add	10.63	
			For Work In Restricted Working Space, Add	5.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 05 33 13-1305	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	134.57	12.07
			For Elevated Installation >10' To 15' Above Floor, Add	2.41	
			For Elevated Installation >15' To 20' Above Floor, Add	4.83	
			For Elevated Installation >20' To 25' Above Floor, Add	6.04	
			For Elevated Installation >25' To 30' Above Floor, Add	8.45	
			For Elevated Installation >30' To 35' Above Floor, Add	9.66	
			For Elevated Installation >35' To 40' Above Floor, Add	12.07	
			For Elevated Installation >40' Above Floor, Add	13.28	
			For Work In Restricted Working Space, Add	7.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-1306	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	145.04	14.49
			For Elevated Installation >10' To 15' Above Floor, Add	2.90	
			For Elevated Installation >15' To 20' Above Floor, Add	5.79	
			For Elevated Installation >20' To 25' Above Floor, Add	7.24	
			For Elevated Installation >25' To 30' Above Floor, Add	10.14	
			For Elevated Installation >30' To 35' Above Floor, Add	11.59	
			For Elevated Installation >35' To 40' Above Floor, Add	14.49	
			For Elevated Installation >40' Above Floor, Add	15.93	
			For Work In Restricted Working Space, Add	8.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.69	
26 05 33 13-1307	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	182.24	17.70
			For Elevated Installation >10' To 15' Above Floor, Add	3.54	
			For Elevated Installation >15' To 20' Above Floor, Add	7.08	
			For Elevated Installation >20' To 25' Above Floor, Add	8.85	
			For Elevated Installation >25' To 30' Above Floor, Add	12.39	
			For Elevated Installation >30' To 35' Above Floor, Add	14.16	
			For Elevated Installation >35' To 40' Above Floor, Add	17.71	
			For Elevated Installation >40' Above Floor, Add	19.48	
			For Work In Restricted Working Space, Add	10.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1308	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	199.57	20.12
			For Elevated Installation >10' To 15' Above Floor, Add	4.02	
			For Elevated Installation >15' To 20' Above Floor, Add	8.05	
			For Elevated Installation >20' To 25' Above Floor, Add	10.06	
			For Elevated Installation >25' To 30' Above Floor, Add	14.08	
			For Elevated Installation >30' To 35' Above Floor, Add	16.10	
			For Elevated Installation >35' To 40' Above Floor, Add	20.12	
			For Elevated Installation >40' Above Floor, Add	22.13	
			For Work In Restricted Working Space, Add	12.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1309	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	211.85	22.53
			For Elevated Installation >10' To 15' Above Floor, Add	4.51	
			For Elevated Installation >15' To 20' Above Floor, Add	9.01	
			For Elevated Installation >20' To 25' Above Floor, Add	11.27	
			For Elevated Installation >25' To 30' Above Floor, Add	15.77	
			For Elevated Installation >30' To 35' Above Floor, Add	18.02	
			For Elevated Installation >35' To 40' Above Floor, Add	22.53	
			For Elevated Installation >40' Above Floor, Add	24.78	
			For Work In Restricted Working Space, Add	13.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	

26 05 33 13-1310 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0843)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1311 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	99.88	20.12
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.05	
For Elevated Installation >20' To 25' Above Floor, Add	10.06	
For Elevated Installation >25' To 30' Above Floor, Add	14.08	
For Elevated Installation >30' To 35' Above Floor, Add	16.10	
For Elevated Installation >35' To 40' Above Floor, Add	20.12	
For Elevated Installation >40' Above Floor, Add	22.13	
For Work In Restricted Working Space, Add	12.07	
26 05 33 13-1312 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	110.62	24.94
For Elevated Installation >10' To 15' Above Floor, Add	4.99	
For Elevated Installation >15' To 20' Above Floor, Add	9.98	
For Elevated Installation >20' To 25' Above Floor, Add	12.47	
For Elevated Installation >25' To 30' Above Floor, Add	17.46	
For Elevated Installation >30' To 35' Above Floor, Add	19.96	
For Elevated Installation >35' To 40' Above Floor, Add	24.95	
For Elevated Installation >40' Above Floor, Add	27.44	
For Work In Restricted Working Space, Add	14.97	
26 05 33 13-1313 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	142.57	30.57
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
For Work In Restricted Working Space, Add	18.35	
26 05 33 13-1314 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	201.83	35.41
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-1315 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	238.50	40.24
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Work In Restricted Working Space, Add	24.14	
26 05 33 13-1316 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	299.12	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1317 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	396.18	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
For Work In Restricted Working Space, Add	33.32	
26 05 33 13-1318 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	504.13	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
For Work In Restricted Working Space, Add	33.32	
26 05 33 13-1319 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	658.20	85.30
For Elevated Installation >10' To 15' Above Floor, Add	17.06	
For Elevated Installation >15' To 20' Above Floor, Add	34.12	
For Elevated Installation >20' To 25' Above Floor, Add	42.65	
For Elevated Installation >25' To 30' Above Floor, Add	59.71	
For Elevated Installation >30' To 35' Above Floor, Add	68.24	
For Elevated Installation >35' To 40' Above Floor, Add	85.30	
For Elevated Installation >40' Above Floor, Add	93.83	
For Work In Restricted Working Space, Add	51.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1320 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	848.18	111.05
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
For Work In Restricted Working Space, Add	66.63	
26 05 33 13-1321 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,532.33	181.06
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	
For Work In Restricted Working Space, Add	108.63	
26 05 33 13-1322 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,937.69	271.99
For Elevated Installation >10' To 15' Above Floor, Add	54.40	
For Elevated Installation >15' To 20' Above Floor, Add	108.79	
For Elevated Installation >20' To 25' Above Floor, Add	135.99	
For Elevated Installation >25' To 30' Above Floor, Add	190.39	
For Elevated Installation >30' To 35' Above Floor, Add	217.59	
For Elevated Installation >35' To 40' Above Floor, Add	271.99	
For Elevated Installation >40' Above Floor, Add	299.18	
For Work In Restricted Working Space, Add	163.19	
26 05 33 13-1323 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions (26 05 33 13-0843)		
26 05 33 13-1324 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	101.89	20.12
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.05	
For Elevated Installation >20' To 25' Above Floor, Add	10.06	
For Elevated Installation >25' To 30' Above Floor, Add	14.08	
For Elevated Installation >30' To 35' Above Floor, Add	16.10	
For Elevated Installation >35' To 40' Above Floor, Add	20.12	
For Elevated Installation >40' Above Floor, Add	22.13	
For Work In Restricted Working Space, Add	12.07	
26 05 33 13-1325 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	118.29	24.94
For Elevated Installation >10' To 15' Above Floor, Add	4.99	
For Elevated Installation >15' To 20' Above Floor, Add	9.98	
For Elevated Installation >20' To 25' Above Floor, Add	12.47	
For Elevated Installation >25' To 30' Above Floor, Add	17.46	
For Elevated Installation >30' To 35' Above Floor, Add	19.96	
For Elevated Installation >35' To 40' Above Floor, Add	24.95	
For Elevated Installation >40' Above Floor, Add	27.44	
For Work In Restricted Working Space, Add	14.97	
26 05 33 13-1326 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	146.66	30.57
For Elevated Installation >10' To 15' Above Floor, Add	6.12	
For Elevated Installation >15' To 20' Above Floor, Add	12.23	
For Elevated Installation >20' To 25' Above Floor, Add	15.29	
For Elevated Installation >25' To 30' Above Floor, Add	21.41	
For Elevated Installation >30' To 35' Above Floor, Add	24.46	
For Elevated Installation >35' To 40' Above Floor, Add	30.58	
For Elevated Installation >40' Above Floor, Add	33.64	
For Work In Restricted Working Space, Add	18.35	
26 05 33 13-1327 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	209.34	35.41
For Elevated Installation >10' To 15' Above Floor, Add	7.08	
For Elevated Installation >15' To 20' Above Floor, Add	14.16	
For Elevated Installation >20' To 25' Above Floor, Add	17.70	
For Elevated Installation >25' To 30' Above Floor, Add	24.78	
For Elevated Installation >30' To 35' Above Floor, Add	28.32	
For Elevated Installation >35' To 40' Above Floor, Add	35.41	
For Elevated Installation >40' Above Floor, Add	38.95	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-1328 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	248.93	40.24
For Elevated Installation >10' To 15' Above Floor, Add	8.05	
For Elevated Installation >15' To 20' Above Floor, Add	16.09	
For Elevated Installation >20' To 25' Above Floor, Add	20.12	
For Elevated Installation >25' To 30' Above Floor, Add	28.16	
For Elevated Installation >30' To 35' Above Floor, Add	32.19	
For Elevated Installation >35' To 40' Above Floor, Add	40.24	
For Elevated Installation >40' Above Floor, Add	44.26	
For Work In Restricted Working Space, Add	24.14	
26 05 33 13-1329 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	321.63	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.65	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1330 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	444.33	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
For Work In Restricted Working Space, Add	33.32	
26 05 33 13-1331 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	553.10	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.11	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.87	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.53	
For Elevated Installation >40' Above Floor, Add	61.08	
For Work In Restricted Working Space, Add	33.32	
26 05 33 13-1332 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	746.72	85.30
For Elevated Installation >10' To 15' Above Floor, Add	17.06	
For Elevated Installation >15' To 20' Above Floor, Add	34.12	
For Elevated Installation >20' To 25' Above Floor, Add	42.65	
For Elevated Installation >25' To 30' Above Floor, Add	59.71	
For Elevated Installation >30' To 35' Above Floor, Add	68.24	
For Elevated Installation >35' To 40' Above Floor, Add	85.30	
For Elevated Installation >40' Above Floor, Add	93.83	
For Work In Restricted Working Space, Add	51.18	
26 05 33 13-1333 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	936.38	111.05
For Elevated Installation >10' To 15' Above Floor, Add	22.21	
For Elevated Installation >15' To 20' Above Floor, Add	44.42	
For Elevated Installation >20' To 25' Above Floor, Add	55.53	
For Elevated Installation >25' To 30' Above Floor, Add	77.74	
For Elevated Installation >30' To 35' Above Floor, Add	88.84	
For Elevated Installation >35' To 40' Above Floor, Add	111.05	
For Elevated Installation >40' Above Floor, Add	122.16	
For Work In Restricted Working Space, Add	66.63	
26 05 33 13-1334 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,694.01	181.06
For Elevated Installation >10' To 15' Above Floor, Add	36.21	
For Elevated Installation >15' To 20' Above Floor, Add	72.42	
For Elevated Installation >20' To 25' Above Floor, Add	90.53	
For Elevated Installation >25' To 30' Above Floor, Add	126.74	
For Elevated Installation >30' To 35' Above Floor, Add	144.84	
For Elevated Installation >35' To 40' Above Floor, Add	181.06	
For Elevated Installation >40' Above Floor, Add	199.16	
For Work In Restricted Working Space, Add	108.63	
26 05 33 13-1335 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,198.76	271.99
For Elevated Installation >10' To 15' Above Floor, Add	54.40	
For Elevated Installation >15' To 20' Above Floor, Add	108.79	
For Elevated Installation >20' To 25' Above Floor, Add	135.99	
For Elevated Installation >25' To 30' Above Floor, Add	190.39	
For Elevated Installation >30' To 35' Above Floor, Add	217.59	
For Elevated Installation >35' To 40' Above Floor, Add	271.99	
For Elevated Installation >40' Above Floor, Add	299.18	
For Work In Restricted Working Space, Add	163.19	
26 05 33 13-1336 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings (26 05 33 13-0843)		
26 05 33 13-1337 EA 3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	53.22	6.44
For Elevated Installation >10' To 15' Above Floor, Add	1.29	
For Elevated Installation >15' To 20' Above Floor, Add	2.57	
For Elevated Installation >20' To 25' Above Floor, Add	3.22	
For Elevated Installation >25' To 30' Above Floor, Add	4.50	
For Elevated Installation >30' To 35' Above Floor, Add	5.15	
For Elevated Installation >35' To 40' Above Floor, Add	6.44	
For Elevated Installation >40' Above Floor, Add	7.08	
For Work In Restricted Working Space, Add	3.86	
26 05 33 13-1338 EA 1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	58.86	8.05
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Work In Restricted Working Space, Add	4.83	
26 05 33 13-1339 EA 1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	66.40	8.05
For Elevated Installation >10' To 15' Above Floor, Add	1.61	
For Elevated Installation >15' To 20' Above Floor, Add	3.22	
For Elevated Installation >20' To 25' Above Floor, Add	4.02	
For Elevated Installation >25' To 30' Above Floor, Add	5.63	
For Elevated Installation >30' To 35' Above Floor, Add	6.44	
For Elevated Installation >35' To 40' Above Floor, Add	8.05	
For Elevated Installation >40' Above Floor, Add	8.85	
For Work In Restricted Working Space, Add	4.83	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1340	EA	1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	81.52	8.85
		For Elevated Installation >10' To 15' Above Floor, Add	1.77	
		For Elevated Installation >15' To 20' Above Floor, Add	3.54	
		For Elevated Installation >20' To 25' Above Floor, Add	4.43	
		For Elevated Installation >25' To 30' Above Floor, Add	6.20	
		For Elevated Installation >30' To 35' Above Floor, Add	7.08	
		For Elevated Installation >35' To 40' Above Floor, Add	8.85	
		For Elevated Installation >40' Above Floor, Add	9.74	
		For Work In Restricted Working Space, Add	5.31	
26 05 33 13-1341	EA	1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	85.87	8.85
		For Elevated Installation >10' To 15' Above Floor, Add	1.77	
		For Elevated Installation >15' To 20' Above Floor, Add	3.54	
		For Elevated Installation >20' To 25' Above Floor, Add	4.43	
		For Elevated Installation >25' To 30' Above Floor, Add	6.20	
		For Elevated Installation >30' To 35' Above Floor, Add	7.08	
		For Elevated Installation >35' To 40' Above Floor, Add	8.85	
		For Elevated Installation >40' Above Floor, Add	9.74	
		For Work In Restricted Working Space, Add	5.31	
26 05 33 13-1342	EA	1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	75.15	10.47
		For Elevated Installation >10' To 15' Above Floor, Add	2.09	
		For Elevated Installation >15' To 20' Above Floor, Add	4.18	
		For Elevated Installation >20' To 25' Above Floor, Add	5.23	
		For Elevated Installation >25' To 30' Above Floor, Add	7.32	
		For Elevated Installation >30' To 35' Above Floor, Add	8.37	
		For Elevated Installation >35' To 40' Above Floor, Add	10.46	
		For Elevated Installation >40' Above Floor, Add	11.51	
		For Work In Restricted Working Space, Add	6.28	
26 05 33 13-1343	EA	1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	84.86	10.47
		For Elevated Installation >10' To 15' Above Floor, Add	2.09	
		For Elevated Installation >15' To 20' Above Floor, Add	4.18	
		For Elevated Installation >20' To 25' Above Floor, Add	5.23	
		For Elevated Installation >25' To 30' Above Floor, Add	7.32	
		For Elevated Installation >30' To 35' Above Floor, Add	8.37	
		For Elevated Installation >35' To 40' Above Floor, Add	10.46	
		For Elevated Installation >40' Above Floor, Add	11.51	
		For Work In Restricted Working Space, Add	6.28	
26 05 33 13-1344	EA	1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	128.51	10.47
		For Elevated Installation >10' To 15' Above Floor, Add	2.09	
		For Elevated Installation >15' To 20' Above Floor, Add	4.18	
		For Elevated Installation >20' To 25' Above Floor, Add	5.23	
		For Elevated Installation >25' To 30' Above Floor, Add	7.32	
		For Elevated Installation >30' To 35' Above Floor, Add	8.37	
		For Elevated Installation >35' To 40' Above Floor, Add	10.46	
		For Elevated Installation >40' Above Floor, Add	11.51	
		For Work In Restricted Working Space, Add	6.28	
26 05 33 13-1345	EA	2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	143.08	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	
26 05 33 13-1346	EA	2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	139.31	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	
26 05 33 13-1347	EA	2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	146.31	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	
26 05 33 13-1348	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	163.92	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1349 EA 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	164.01	14.49
For Elevated Installation >10' To 15' Above Floor, Add	2.90	
For Elevated Installation >15' To 20' Above Floor, Add	5.79	
For Elevated Installation >20' To 25' Above Floor, Add	7.24	
For Elevated Installation >25' To 30' Above Floor, Add	10.14	
For Elevated Installation >30' To 35' Above Floor, Add	11.59	
For Elevated Installation >35' To 40' Above Floor, Add	14.49	
For Elevated Installation >40' Above Floor, Add	15.93	
For Work In Restricted Working Space, Add	8.69	
26 05 33 13-1350 EA 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	209.94	20.12
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.05	
For Elevated Installation >20' To 25' Above Floor, Add	10.06	
For Elevated Installation >25' To 30' Above Floor, Add	14.08	
For Elevated Installation >30' To 35' Above Floor, Add	16.10	
For Elevated Installation >35' To 40' Above Floor, Add	20.12	
For Elevated Installation >40' Above Floor, Add	22.13	
For Work In Restricted Working Space, Add	12.07	
26 05 33 13-1351 EA 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	306.05	23.34
For Elevated Installation >10' To 15' Above Floor, Add	4.67	
For Elevated Installation >15' To 20' Above Floor, Add	9.33	
For Elevated Installation >20' To 25' Above Floor, Add	11.67	
For Elevated Installation >25' To 30' Above Floor, Add	16.33	
For Elevated Installation >30' To 35' Above Floor, Add	18.67	
For Elevated Installation >35' To 40' Above Floor, Add	23.34	
For Elevated Installation >40' Above Floor, Add	25.67	
For Work In Restricted Working Space, Add	14.00	
26 05 33 13-1352 EA 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	409.96	32.19
For Elevated Installation >10' To 15' Above Floor, Add	6.44	
For Elevated Installation >15' To 20' Above Floor, Add	12.88	
For Elevated Installation >20' To 25' Above Floor, Add	16.10	
For Elevated Installation >25' To 30' Above Floor, Add	22.53	
For Elevated Installation >30' To 35' Above Floor, Add	25.75	
For Elevated Installation >35' To 40' Above Floor, Add	32.19	
For Elevated Installation >40' Above Floor, Add	35.41	
For Work In Restricted Working Space, Add	19.31	
26 05 33 13-1353 EA 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	514.60	44.26
For Elevated Installation >10' To 15' Above Floor, Add	8.85	
For Elevated Installation >15' To 20' Above Floor, Add	17.70	
For Elevated Installation >20' To 25' Above Floor, Add	22.13	
For Elevated Installation >25' To 30' Above Floor, Add	30.98	
For Elevated Installation >30' To 35' Above Floor, Add	35.41	
For Elevated Installation >35' To 40' Above Floor, Add	44.26	
For Elevated Installation >40' Above Floor, Add	48.69	
For Work In Restricted Working Space, Add	26.56	
26 05 33 13-1354 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples (26 05 33 13-0843)		
26 05 33 13-1355 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	36.23	9.65
For Elevated Installation >10' To 15' Above Floor, Add	1.93	
For Elevated Installation >15' To 20' Above Floor, Add	3.86	
For Elevated Installation >20' To 25' Above Floor, Add	4.83	
For Elevated Installation >25' To 30' Above Floor, Add	6.76	
For Elevated Installation >30' To 35' Above Floor, Add	7.73	
For Elevated Installation >35' To 40' Above Floor, Add	9.66	
For Elevated Installation >40' Above Floor, Add	10.63	
For Work In Restricted Working Space, Add	5.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.80	
26 05 33 13-1356 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.38	12.07
For Elevated Installation >10' To 15' Above Floor, Add	2.41	
For Elevated Installation >15' To 20' Above Floor, Add	4.83	
For Elevated Installation >20' To 25' Above Floor, Add	6.04	
For Elevated Installation >25' To 30' Above Floor, Add	8.45	
For Elevated Installation >30' To 35' Above Floor, Add	9.66	
For Elevated Installation >35' To 40' Above Floor, Add	12.07	
For Elevated Installation >40' Above Floor, Add	13.28	
For Work In Restricted Working Space, Add	7.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-1357 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	48.76	15.29
For Elevated Installation >10' To 15' Above Floor, Add	3.06	
For Elevated Installation >15' To 20' Above Floor, Add	6.11	
For Elevated Installation >20' To 25' Above Floor, Add	7.64	
For Elevated Installation >25' To 30' Above Floor, Add	10.70	
For Elevated Installation >30' To 35' Above Floor, Add	12.23	
For Elevated Installation >35' To 40' Above Floor, Add	15.29	
For Elevated Installation >40' Above Floor, Add	16.81	
For Work In Restricted Working Space, Add	9.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1358	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	57.78	17.70
		For Elevated Installation >10' To 15' Above Floor, Add	3.54	
		For Elevated Installation >15' To 20' Above Floor, Add	7.08	
		For Elevated Installation >20' To 25' Above Floor, Add	8.85	
		For Elevated Installation >25' To 30' Above Floor, Add	12.39	
		For Elevated Installation >30' To 35' Above Floor, Add	14.16	
		For Elevated Installation >35' To 40' Above Floor, Add	17.71	
		For Elevated Installation >40' Above Floor, Add	19.48	
		For Work In Restricted Working Space, Add	10.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1359	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.34	20.12
		For Elevated Installation >10' To 15' Above Floor, Add	4.02	
		For Elevated Installation >15' To 20' Above Floor, Add	8.05	
		For Elevated Installation >20' To 25' Above Floor, Add	10.06	
		For Elevated Installation >25' To 30' Above Floor, Add	14.08	
		For Elevated Installation >30' To 35' Above Floor, Add	16.10	
		For Elevated Installation >35' To 40' Above Floor, Add	20.12	
		For Elevated Installation >40' Above Floor, Add	22.13	
		For Work In Restricted Working Space, Add	12.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1360	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	40.01	10.47
		For Elevated Installation >10' To 15' Above Floor, Add	2.09	
		For Elevated Installation >15' To 20' Above Floor, Add	4.18	
		For Elevated Installation >20' To 25' Above Floor, Add	5.23	
		For Elevated Installation >25' To 30' Above Floor, Add	7.32	
		For Elevated Installation >30' To 35' Above Floor, Add	8.37	
		For Elevated Installation >35' To 40' Above Floor, Add	10.46	
		For Elevated Installation >40' Above Floor, Add	11.51	
		For Work In Restricted Working Space, Add	6.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.28	
26 05 33 13-1361	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.69	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-1362	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	51.09	15.29
		For Elevated Installation >10' To 15' Above Floor, Add	3.06	
		For Elevated Installation >15' To 20' Above Floor, Add	6.11	
		For Elevated Installation >20' To 25' Above Floor, Add	7.64	
		For Elevated Installation >25' To 30' Above Floor, Add	10.70	
		For Elevated Installation >30' To 35' Above Floor, Add	12.23	
		For Elevated Installation >35' To 40' Above Floor, Add	15.29	
		For Elevated Installation >40' Above Floor, Add	16.81	
		For Work In Restricted Working Space, Add	9.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	
26 05 33 13-1363	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	60.25	17.70
		For Elevated Installation >10' To 15' Above Floor, Add	3.54	
		For Elevated Installation >15' To 20' Above Floor, Add	7.08	
		For Elevated Installation >20' To 25' Above Floor, Add	8.85	
		For Elevated Installation >25' To 30' Above Floor, Add	12.39	
		For Elevated Installation >30' To 35' Above Floor, Add	14.16	
		For Elevated Installation >35' To 40' Above Floor, Add	17.71	
		For Elevated Installation >40' Above Floor, Add	19.48	
		For Work In Restricted Working Space, Add	10.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1364	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.01	20.12
		For Elevated Installation >10' To 15' Above Floor, Add	4.02	
		For Elevated Installation >15' To 20' Above Floor, Add	8.05	
		For Elevated Installation >20' To 25' Above Floor, Add	10.06	
		For Elevated Installation >25' To 30' Above Floor, Add	14.08	
		For Elevated Installation >30' To 35' Above Floor, Add	16.10	
		For Elevated Installation >35' To 40' Above Floor, Add	20.12	
		For Elevated Installation >40' Above Floor, Add	22.13	
		For Work In Restricted Working Space, Add	12.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1365	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	71.98	22.53
		For Elevated Installation >10' To 15' Above Floor, Add	4.51	
		For Elevated Installation >15' To 20' Above Floor, Add	9.01	
		For Elevated Installation >20' To 25' Above Floor, Add	11.27	
		For Elevated Installation >25' To 30' Above Floor, Add	15.77	
		For Elevated Installation >30' To 35' Above Floor, Add	18.02	
		For Elevated Installation >35' To 40' Above Floor, Add	22.53	
		For Elevated Installation >40' Above Floor, Add	24.78	
		For Work In Restricted Working Space, Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1366	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	40.17	10.47
		For Elevated Installation >10' To 15' Above Floor, Add	2.09	
		For Elevated Installation >15' To 20' Above Floor, Add	4.18	
		For Elevated Installation >20' To 25' Above Floor, Add	5.23	
		For Elevated Installation >25' To 30' Above Floor, Add	7.32	
		For Elevated Installation >30' To 35' Above Floor, Add	8.37	
		For Elevated Installation >35' To 40' Above Floor, Add	10.46	
		For Elevated Installation >40' Above Floor, Add	11.51	
		For Work In Restricted Working Space, Add	6.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.28	
26 05 33 13-1367	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	43.85	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-1368	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	51.39	15.29
		For Elevated Installation >10' To 15' Above Floor, Add	3.06	
		For Elevated Installation >15' To 20' Above Floor, Add	6.11	
		For Elevated Installation >20' To 25' Above Floor, Add	7.64	
		For Elevated Installation >25' To 30' Above Floor, Add	10.70	
		For Elevated Installation >30' To 35' Above Floor, Add	12.23	
		For Elevated Installation >35' To 40' Above Floor, Add	15.29	
		For Elevated Installation >40' Above Floor, Add	16.81	
		For Work In Restricted Working Space, Add	9.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	
26 05 33 13-1369	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	60.56	17.70
		For Elevated Installation >10' To 15' Above Floor, Add	3.54	
		For Elevated Installation >15' To 20' Above Floor, Add	7.08	
		For Elevated Installation >20' To 25' Above Floor, Add	8.85	
		For Elevated Installation >25' To 30' Above Floor, Add	12.39	
		For Elevated Installation >30' To 35' Above Floor, Add	14.16	
		For Elevated Installation >35' To 40' Above Floor, Add	17.70	
		For Elevated Installation >40' Above Floor, Add	19.47	
		For Work In Restricted Working Space, Add	10.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1370	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	66.32	20.12
		For Elevated Installation >10' To 15' Above Floor, Add	4.02	
		For Elevated Installation >15' To 20' Above Floor, Add	8.05	
		For Elevated Installation >20' To 25' Above Floor, Add	10.06	
		For Elevated Installation >25' To 30' Above Floor, Add	14.08	
		For Elevated Installation >30' To 35' Above Floor, Add	16.09	
		For Elevated Installation >35' To 40' Above Floor, Add	20.12	
		For Elevated Installation >40' Above Floor, Add	22.13	
		For Work In Restricted Working Space, Add	12.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1371	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	72.81	22.53
		For Elevated Installation >10' To 15' Above Floor, Add	4.51	
		For Elevated Installation >15' To 20' Above Floor, Add	9.01	
		For Elevated Installation >20' To 25' Above Floor, Add	11.27	
		For Elevated Installation >25' To 30' Above Floor, Add	15.77	
		For Elevated Installation >30' To 35' Above Floor, Add	18.02	
		For Elevated Installation >35' To 40' Above Floor, Add	22.53	
		For Elevated Installation >40' Above Floor, Add	24.78	
		For Work In Restricted Working Space, Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-1372	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.36	10.47
		For Elevated Installation >10' To 15' Above Floor, Add	2.09	
		For Elevated Installation >15' To 20' Above Floor, Add	4.18	
		For Elevated Installation >20' To 25' Above Floor, Add	5.23	
		For Elevated Installation >25' To 30' Above Floor, Add	7.32	
		For Elevated Installation >30' To 35' Above Floor, Add	8.37	
		For Elevated Installation >35' To 40' Above Floor, Add	10.46	
		For Elevated Installation >40' Above Floor, Add	11.51	
		For Work In Restricted Working Space, Add	6.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.28	
26 05 33 13-1373	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	46.05	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1374	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	53.75	15.29
		For Elevated Installation >10' To 15' Above Floor, Add	3.06	
		For Elevated Installation >15' To 20' Above Floor, Add	6.11	
		For Elevated Installation >20' To 25' Above Floor, Add	7.64	
		For Elevated Installation >25' To 30' Above Floor, Add	10.70	
		For Elevated Installation >30' To 35' Above Floor, Add	12.23	
		For Elevated Installation >35' To 40' Above Floor, Add	15.29	
		For Elevated Installation >40' Above Floor, Add	16.81	
		For Work In Restricted Working Space, Add	9.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	
26 05 33 13-1375	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.90	17.70
		For Elevated Installation >10' To 15' Above Floor, Add	3.54	
		For Elevated Installation >15' To 20' Above Floor, Add	7.08	
		For Elevated Installation >20' To 25' Above Floor, Add	8.85	
		For Elevated Installation >25' To 30' Above Floor, Add	12.39	
		For Elevated Installation >30' To 35' Above Floor, Add	14.16	
		For Elevated Installation >35' To 40' Above Floor, Add	17.70	
		For Elevated Installation >40' Above Floor, Add	19.47	
		For Work In Restricted Working Space, Add	10.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1376	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.80	20.12
		For Elevated Installation >10' To 15' Above Floor, Add	4.02	
		For Elevated Installation >15' To 20' Above Floor, Add	8.05	
		For Elevated Installation >20' To 25' Above Floor, Add	10.06	
		For Elevated Installation >25' To 30' Above Floor, Add	14.08	
		For Elevated Installation >30' To 35' Above Floor, Add	16.09	
		For Elevated Installation >35' To 40' Above Floor, Add	20.12	
		For Elevated Installation >40' Above Floor, Add	22.13	
		For Work In Restricted Working Space, Add	12.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1377	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	75.40	22.53
		For Elevated Installation >10' To 15' Above Floor, Add	4.51	
		For Elevated Installation >15' To 20' Above Floor, Add	9.01	
		For Elevated Installation >20' To 25' Above Floor, Add	11.27	
		For Elevated Installation >25' To 30' Above Floor, Add	15.77	
		For Elevated Installation >30' To 35' Above Floor, Add	18.02	
		For Elevated Installation >35' To 40' Above Floor, Add	22.53	
		For Elevated Installation >40' Above Floor, Add	24.78	
		For Work In Restricted Working Space, Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-1378	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	102.88	27.36
		For Elevated Installation >10' To 15' Above Floor, Add	5.47	
		For Elevated Installation >15' To 20' Above Floor, Add	10.94	
		For Elevated Installation >20' To 25' Above Floor, Add	13.68	
		For Elevated Installation >25' To 30' Above Floor, Add	19.15	
		For Elevated Installation >30' To 35' Above Floor, Add	21.89	
		For Elevated Installation >35' To 40' Above Floor, Add	27.36	
		For Elevated Installation >40' Above Floor, Add	30.10	
		For Work In Restricted Working Space, Add	16.42	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 05 33 13-1379	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	134.56	37.82
		For Elevated Installation >10' To 15' Above Floor, Add	7.56	
		For Elevated Installation >15' To 20' Above Floor, Add	15.13	
		For Elevated Installation >20' To 25' Above Floor, Add	18.91	
		For Elevated Installation >25' To 30' Above Floor, Add	26.47	
		For Elevated Installation >30' To 35' Above Floor, Add	30.26	
		For Elevated Installation >35' To 40' Above Floor, Add	37.82	
		For Elevated Installation >40' Above Floor, Add	41.60	
		For Work In Restricted Working Space, Add	22.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.69	
26 05 33 13-1380	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.53	10.47
		For Elevated Installation >10' To 15' Above Floor, Add	2.09	
		For Elevated Installation >15' To 20' Above Floor, Add	4.18	
		For Elevated Installation >20' To 25' Above Floor, Add	5.23	
		For Elevated Installation >25' To 30' Above Floor, Add	7.32	
		For Elevated Installation >30' To 35' Above Floor, Add	8.37	
		For Elevated Installation >35' To 40' Above Floor, Add	10.46	
		For Elevated Installation >40' Above Floor, Add	11.51	
		For Work In Restricted Working Space, Add	6.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.28	
26 05 33 13-1381	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.35	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1382	EA		1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	54.07	15.29
			For Elevated Installation >10' To 15' Above Floor, Add	3.06	
			For Elevated Installation >15' To 20' Above Floor, Add	6.11	
			For Elevated Installation >20' To 25' Above Floor, Add	7.64	
			For Elevated Installation >25' To 30' Above Floor, Add	10.70	
			For Elevated Installation >30' To 35' Above Floor, Add	12.23	
			For Elevated Installation >35' To 40' Above Floor, Add	15.29	
			For Elevated Installation >40' Above Floor, Add	16.81	
			For Work In Restricted Working Space, Add	9.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	
26 05 33 13-1383	EA		1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	63.24	17.70
			For Elevated Installation >10' To 15' Above Floor, Add	3.54	
			For Elevated Installation >15' To 20' Above Floor, Add	7.08	
			For Elevated Installation >20' To 25' Above Floor, Add	8.85	
			For Elevated Installation >25' To 30' Above Floor, Add	12.39	
			For Elevated Installation >30' To 35' Above Floor, Add	14.16	
			For Elevated Installation >35' To 40' Above Floor, Add	17.70	
			For Elevated Installation >40' Above Floor, Add	19.47	
			For Work In Restricted Working Space, Add	10.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1384	EA		1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	69.28	20.12
			For Elevated Installation >10' To 15' Above Floor, Add	4.02	
			For Elevated Installation >15' To 20' Above Floor, Add	8.05	
			For Elevated Installation >20' To 25' Above Floor, Add	10.06	
			For Elevated Installation >25' To 30' Above Floor, Add	14.08	
			For Elevated Installation >30' To 35' Above Floor, Add	16.09	
			For Elevated Installation >35' To 40' Above Floor, Add	20.12	
			For Elevated Installation >40' Above Floor, Add	22.13	
			For Work In Restricted Working Space, Add	12.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1385	EA		2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	77.99	22.53
			For Elevated Installation >10' To 15' Above Floor, Add	4.51	
			For Elevated Installation >15' To 20' Above Floor, Add	9.01	
			For Elevated Installation >20' To 25' Above Floor, Add	11.27	
			For Elevated Installation >25' To 30' Above Floor, Add	15.77	
			For Elevated Installation >30' To 35' Above Floor, Add	18.02	
			For Elevated Installation >35' To 40' Above Floor, Add	22.53	
			For Elevated Installation >40' Above Floor, Add	24.78	
			For Work In Restricted Working Space, Add	13.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-1386	EA		2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	105.16	27.36
			For Elevated Installation >10' To 15' Above Floor, Add	5.47	
			For Elevated Installation >15' To 20' Above Floor, Add	10.94	
			For Elevated Installation >20' To 25' Above Floor, Add	13.68	
			For Elevated Installation >25' To 30' Above Floor, Add	19.15	
			For Elevated Installation >30' To 35' Above Floor, Add	21.89	
			For Elevated Installation >35' To 40' Above Floor, Add	27.36	
			For Elevated Installation >40' Above Floor, Add	30.10	
			For Work In Restricted Working Space, Add	16.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 05 33 13-1387	EA		3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	139.49	37.82
			For Elevated Installation >10' To 15' Above Floor, Add	7.56	
			For Elevated Installation >15' To 20' Above Floor, Add	15.13	
			For Elevated Installation >20' To 25' Above Floor, Add	18.91	
			For Elevated Installation >25' To 30' Above Floor, Add	26.47	
			For Elevated Installation >30' To 35' Above Floor, Add	30.26	
			For Elevated Installation >35' To 40' Above Floor, Add	37.82	
			For Elevated Installation >40' Above Floor, Add	41.60	
			For Work In Restricted Working Space, Add	22.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.69	
26 05 33 13-1388	EA		3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	164.92	42.65
			For Elevated Installation >10' To 15' Above Floor, Add	8.53	
			For Elevated Installation >15' To 20' Above Floor, Add	17.06	
			For Elevated Installation >20' To 25' Above Floor, Add	21.32	
			For Elevated Installation >25' To 30' Above Floor, Add	29.85	
			For Elevated Installation >30' To 35' Above Floor, Add	34.12	
			For Elevated Installation >35' To 40' Above Floor, Add	42.65	
			For Elevated Installation >40' Above Floor, Add	46.91	
			For Work In Restricted Working Space, Add	25.59	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.59	
26 05 33 13-1389	EA		4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	196.24	55.53
			For Elevated Installation >10' To 15' Above Floor, Add	11.10	
			For Elevated Installation >15' To 20' Above Floor, Add	22.21	
			For Elevated Installation >20' To 25' Above Floor, Add	27.76	
			For Elevated Installation >25' To 30' Above Floor, Add	38.86	
			For Elevated Installation >30' To 35' Above Floor, Add	44.42	
			For Elevated Installation >35' To 40' Above Floor, Add	55.52	
			For Elevated Installation >40' Above Floor, Add	61.07	
			For Work In Restricted Working Space, Add	33.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1390	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	42.83	10.47
		For Elevated Installation >10' To 15' Above Floor, Add		2.09	
		For Elevated Installation >15' To 20' Above Floor, Add		4.18	
		For Elevated Installation >20' To 25' Above Floor, Add		5.23	
		For Elevated Installation >25' To 30' Above Floor, Add		7.32	
		For Elevated Installation >30' To 35' Above Floor, Add		8.37	
		For Elevated Installation >35' To 40' Above Floor, Add		10.46	
		For Elevated Installation >40' Above Floor, Add		11.51	
		For Work In Restricted Working Space, Add		6.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.28	
26 05 33 13-1391	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	46.67	12.07
		For Elevated Installation >10' To 15' Above Floor, Add		2.41	
		For Elevated Installation >15' To 20' Above Floor, Add		4.83	
		For Elevated Installation >20' To 25' Above Floor, Add		6.04	
		For Elevated Installation >25' To 30' Above Floor, Add		8.45	
		For Elevated Installation >30' To 35' Above Floor, Add		9.66	
		For Elevated Installation >35' To 40' Above Floor, Add		12.07	
		For Elevated Installation >40' Above Floor, Add		13.28	
		For Work In Restricted Working Space, Add		7.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.24	
26 05 33 13-1392	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	54.42	15.29
		For Elevated Installation >10' To 15' Above Floor, Add		3.06	
		For Elevated Installation >15' To 20' Above Floor, Add		6.11	
		For Elevated Installation >20' To 25' Above Floor, Add		7.64	
		For Elevated Installation >25' To 30' Above Floor, Add		10.70	
		For Elevated Installation >30' To 35' Above Floor, Add		12.23	
		For Elevated Installation >35' To 40' Above Floor, Add		15.29	
		For Elevated Installation >40' Above Floor, Add		16.81	
		For Work In Restricted Working Space, Add		9.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.17	
26 05 33 13-1393	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	63.87	17.70
		For Elevated Installation >10' To 15' Above Floor, Add		3.54	
		For Elevated Installation >15' To 20' Above Floor, Add		7.08	
		For Elevated Installation >20' To 25' Above Floor, Add		8.85	
		For Elevated Installation >25' To 30' Above Floor, Add		12.39	
		For Elevated Installation >30' To 35' Above Floor, Add		14.16	
		For Elevated Installation >35' To 40' Above Floor, Add		17.70	
		For Elevated Installation >40' Above Floor, Add		19.47	
		For Work In Restricted Working Space, Add		10.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.62	
26 05 33 13-1394	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	69.92	20.12
		For Elevated Installation >10' To 15' Above Floor, Add		4.02	
		For Elevated Installation >15' To 20' Above Floor, Add		8.05	
		For Elevated Installation >20' To 25' Above Floor, Add		10.06	
		For Elevated Installation >25' To 30' Above Floor, Add		14.08	
		For Elevated Installation >30' To 35' Above Floor, Add		16.09	
		For Elevated Installation >35' To 40' Above Floor, Add		20.12	
		For Elevated Installation >40' Above Floor, Add		22.13	
		For Work In Restricted Working Space, Add		12.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.07	
26 05 33 13-1395	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	79.40	22.53
		For Elevated Installation >10' To 15' Above Floor, Add		4.51	
		For Elevated Installation >15' To 20' Above Floor, Add		9.01	
		For Elevated Installation >20' To 25' Above Floor, Add		11.27	
		For Elevated Installation >25' To 30' Above Floor, Add		15.77	
		For Elevated Installation >30' To 35' Above Floor, Add		18.02	
		For Elevated Installation >35' To 40' Above Floor, Add		22.53	
		For Elevated Installation >40' Above Floor, Add		24.78	
		For Work In Restricted Working Space, Add		13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.52	
26 05 33 13-1396	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	114.27	27.36
		For Elevated Installation >10' To 15' Above Floor, Add		5.47	
		For Elevated Installation >15' To 20' Above Floor, Add		10.94	
		For Elevated Installation >20' To 25' Above Floor, Add		13.68	
		For Elevated Installation >25' To 30' Above Floor, Add		19.15	
		For Elevated Installation >30' To 35' Above Floor, Add		21.89	
		For Elevated Installation >35' To 40' Above Floor, Add		27.36	
		For Elevated Installation >40' Above Floor, Add		30.10	
		For Work In Restricted Working Space, Add		16.42	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		16.42	
26 05 33 13-1397	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	146.86	37.82
		For Elevated Installation >10' To 15' Above Floor, Add		7.56	
		For Elevated Installation >15' To 20' Above Floor, Add		15.13	
		For Elevated Installation >20' To 25' Above Floor, Add		18.91	
		For Elevated Installation >25' To 30' Above Floor, Add		26.47	
		For Elevated Installation >30' To 35' Above Floor, Add		30.26	
		For Elevated Installation >35' To 40' Above Floor, Add		37.82	
		For Elevated Installation >40' Above Floor, Add		41.60	
		For Work In Restricted Working Space, Add		22.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		22.69	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1398 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	166.49	42.65
For Elevated Installation >10' To 15' Above Floor, Add	8.53	
For Elevated Installation >15' To 20' Above Floor, Add	17.06	
For Elevated Installation >20' To 25' Above Floor, Add	21.32	
For Elevated Installation >25' To 30' Above Floor, Add	29.85	
For Elevated Installation >30' To 35' Above Floor, Add	34.12	
For Elevated Installation >35' To 40' Above Floor, Add	42.65	
For Elevated Installation >40' Above Floor, Add	46.91	
For Work In Restricted Working Space, Add	25.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.59	
26 05 33 13-1399 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	200.44	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.10	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.86	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.52	
For Elevated Installation >40' Above Floor, Add	61.07	
For Work In Restricted Working Space, Add	33.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	
26 05 33 13-1400 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	291.94	76.45
For Elevated Installation >10' To 15' Above Floor, Add	15.29	
For Elevated Installation >15' To 20' Above Floor, Add	30.58	
For Elevated Installation >20' To 25' Above Floor, Add	38.22	
For Elevated Installation >25' To 30' Above Floor, Add	53.51	
For Elevated Installation >30' To 35' Above Floor, Add	61.15	
For Elevated Installation >35' To 40' Above Floor, Add	76.44	
For Elevated Installation >40' Above Floor, Add	84.08	
For Work In Restricted Working Space, Add	45.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.86	
26 05 33 13-1401 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	43.40	10.47
For Elevated Installation >10' To 15' Above Floor, Add	2.09	
For Elevated Installation >15' To 20' Above Floor, Add	4.18	
For Elevated Installation >20' To 25' Above Floor, Add	5.23	
For Elevated Installation >25' To 30' Above Floor, Add	7.32	
For Elevated Installation >30' To 35' Above Floor, Add	8.37	
For Elevated Installation >35' To 40' Above Floor, Add	10.46	
For Elevated Installation >40' Above Floor, Add	11.51	
For Work In Restricted Working Space, Add	6.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.28	
26 05 33 13-1402 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.25	12.07
For Elevated Installation >10' To 15' Above Floor, Add	2.41	
For Elevated Installation >15' To 20' Above Floor, Add	4.83	
For Elevated Installation >20' To 25' Above Floor, Add	6.04	
For Elevated Installation >25' To 30' Above Floor, Add	8.45	
For Elevated Installation >30' To 35' Above Floor, Add	9.66	
For Elevated Installation >35' To 40' Above Floor, Add	12.07	
For Elevated Installation >40' Above Floor, Add	13.28	
For Work In Restricted Working Space, Add	7.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-1403 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	55.04	15.29
For Elevated Installation >10' To 15' Above Floor, Add	3.06	
For Elevated Installation >15' To 20' Above Floor, Add	6.11	
For Elevated Installation >20' To 25' Above Floor, Add	7.64	
For Elevated Installation >25' To 30' Above Floor, Add	10.70	
For Elevated Installation >30' To 35' Above Floor, Add	12.23	
For Elevated Installation >35' To 40' Above Floor, Add	15.29	
For Elevated Installation >40' Above Floor, Add	16.81	
For Work In Restricted Working Space, Add	9.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	
26 05 33 13-1404 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	65.02	17.70
For Elevated Installation >10' To 15' Above Floor, Add	3.54	
For Elevated Installation >15' To 20' Above Floor, Add	7.08	
For Elevated Installation >20' To 25' Above Floor, Add	8.85	
For Elevated Installation >25' To 30' Above Floor, Add	12.39	
For Elevated Installation >30' To 35' Above Floor, Add	14.16	
For Elevated Installation >35' To 40' Above Floor, Add	17.70	
For Elevated Installation >40' Above Floor, Add	19.47	
For Work In Restricted Working Space, Add	10.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1405 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	71.31	20.12
For Elevated Installation >10' To 15' Above Floor, Add	4.02	
For Elevated Installation >15' To 20' Above Floor, Add	8.05	
For Elevated Installation >20' To 25' Above Floor, Add	10.06	
For Elevated Installation >25' To 30' Above Floor, Add	14.08	
For Elevated Installation >30' To 35' Above Floor, Add	16.09	
For Elevated Installation >35' To 40' Above Floor, Add	20.12	
For Elevated Installation >40' Above Floor, Add	22.13	
For Work In Restricted Working Space, Add	12.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1406	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	80.81	22.53
		For Elevated Installation >10' To 15' Above Floor, Add	4.51	
		For Elevated Installation >15' To 20' Above Floor, Add	9.01	
		For Elevated Installation >20' To 25' Above Floor, Add	11.27	
		For Elevated Installation >25' To 30' Above Floor, Add	15.77	
		For Elevated Installation >30' To 35' Above Floor, Add	18.02	
		For Elevated Installation >35' To 40' Above Floor, Add	22.53	
		For Elevated Installation >40' Above Floor, Add	24.78	
		For Work In Restricted Working Space, Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-1407	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	123.51	27.36
		For Elevated Installation >10' To 15' Above Floor, Add	5.47	
		For Elevated Installation >15' To 20' Above Floor, Add	10.94	
		For Elevated Installation >20' To 25' Above Floor, Add	13.68	
		For Elevated Installation >25' To 30' Above Floor, Add	19.15	
		For Elevated Installation >30' To 35' Above Floor, Add	21.89	
		For Elevated Installation >35' To 40' Above Floor, Add	27.36	
		For Elevated Installation >40' Above Floor, Add	30.10	
		For Work In Restricted Working Space, Add	16.42	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 05 33 13-1408	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	156.66	37.82
		For Elevated Installation >10' To 15' Above Floor, Add	7.56	
		For Elevated Installation >15' To 20' Above Floor, Add	15.13	
		For Elevated Installation >20' To 25' Above Floor, Add	18.91	
		For Elevated Installation >25' To 30' Above Floor, Add	26.47	
		For Elevated Installation >30' To 35' Above Floor, Add	30.26	
		For Elevated Installation >35' To 40' Above Floor, Add	37.82	
		For Elevated Installation >40' Above Floor, Add	41.60	
		For Work In Restricted Working Space, Add	22.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.69	
26 05 33 13-1409	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	175.32	42.65
		For Elevated Installation >10' To 15' Above Floor, Add	8.53	
		For Elevated Installation >15' To 20' Above Floor, Add	17.06	
		For Elevated Installation >20' To 25' Above Floor, Add	21.32	
		For Elevated Installation >25' To 30' Above Floor, Add	29.85	
		For Elevated Installation >30' To 35' Above Floor, Add	34.12	
		For Elevated Installation >35' To 40' Above Floor, Add	42.65	
		For Elevated Installation >40' Above Floor, Add	46.91	
		For Work In Restricted Working Space, Add	25.59	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.59	
26 05 33 13-1410	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	215.32	55.53
		For Elevated Installation >10' To 15' Above Floor, Add	11.10	
		For Elevated Installation >15' To 20' Above Floor, Add	22.21	
		For Elevated Installation >20' To 25' Above Floor, Add	27.76	
		For Elevated Installation >25' To 30' Above Floor, Add	38.86	
		For Elevated Installation >30' To 35' Above Floor, Add	44.42	
		For Elevated Installation >35' To 40' Above Floor, Add	55.52	
		For Elevated Installation >40' Above Floor, Add	61.07	
		For Work In Restricted Working Space, Add	33.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	
26 05 33 13-1411	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	314.19	76.45
		For Elevated Installation >10' To 15' Above Floor, Add	15.29	
		For Elevated Installation >15' To 20' Above Floor, Add	30.58	
		For Elevated Installation >20' To 25' Above Floor, Add	38.22	
		For Elevated Installation >25' To 30' Above Floor, Add	53.51	
		For Elevated Installation >30' To 35' Above Floor, Add	61.15	
		For Elevated Installation >35' To 40' Above Floor, Add	76.44	
		For Elevated Installation >40' Above Floor, Add	84.08	
		For Work In Restricted Working Space, Add	45.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.86	
26 05 33 13-1412	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.30	10.47
		For Elevated Installation >10' To 15' Above Floor, Add	2.09	
		For Elevated Installation >15' To 20' Above Floor, Add	4.18	
		For Elevated Installation >20' To 25' Above Floor, Add	5.23	
		For Elevated Installation >25' To 30' Above Floor, Add	7.32	
		For Elevated Installation >30' To 35' Above Floor, Add	8.37	
		For Elevated Installation >35' To 40' Above Floor, Add	10.46	
		For Elevated Installation >40' Above Floor, Add	11.51	
		For Work In Restricted Working Space, Add	6.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.28	
26 05 33 13-1413	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	48.13	12.07
		For Elevated Installation >10' To 15' Above Floor, Add	2.41	
		For Elevated Installation >15' To 20' Above Floor, Add	4.83	
		For Elevated Installation >20' To 25' Above Floor, Add	6.04	
		For Elevated Installation >25' To 30' Above Floor, Add	8.45	
		For Elevated Installation >30' To 35' Above Floor, Add	9.66	
		For Elevated Installation >35' To 40' Above Floor, Add	12.07	
		For Elevated Installation >40' Above Floor, Add	13.28	
		For Work In Restricted Working Space, Add	7.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1414	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	56.43	15.29
		For Elevated Installation >10' To 15' Above Floor, Add	3.06	
		For Elevated Installation >15' To 20' Above Floor, Add	6.11	
		For Elevated Installation >20' To 25' Above Floor, Add	7.64	
		For Elevated Installation >25' To 30' Above Floor, Add	10.70	
		For Elevated Installation >30' To 35' Above Floor, Add	12.23	
		For Elevated Installation >35' To 40' Above Floor, Add	15.29	
		For Elevated Installation >40' Above Floor, Add	16.81	
		For Work In Restricted Working Space, Add	9.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	
26 05 33 13-1415	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	65.32	17.70
		For Elevated Installation >10' To 15' Above Floor, Add	3.54	
		For Elevated Installation >15' To 20' Above Floor, Add	7.08	
		For Elevated Installation >20' To 25' Above Floor, Add	8.85	
		For Elevated Installation >25' To 30' Above Floor, Add	12.39	
		For Elevated Installation >30' To 35' Above Floor, Add	14.16	
		For Elevated Installation >35' To 40' Above Floor, Add	17.70	
		For Elevated Installation >40' Above Floor, Add	19.47	
		For Work In Restricted Working Space, Add	10.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	
26 05 33 13-1416	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	74.13	20.12
		For Elevated Installation >10' To 15' Above Floor, Add	4.02	
		For Elevated Installation >15' To 20' Above Floor, Add	8.05	
		For Elevated Installation >20' To 25' Above Floor, Add	10.06	
		For Elevated Installation >25' To 30' Above Floor, Add	14.08	
		For Elevated Installation >30' To 35' Above Floor, Add	16.09	
		For Elevated Installation >35' To 40' Above Floor, Add	20.12	
		For Elevated Installation >40' Above Floor, Add	22.13	
		For Work In Restricted Working Space, Add	12.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1417	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	87.69	22.53
		For Elevated Installation >10' To 15' Above Floor, Add	4.51	
		For Elevated Installation >15' To 20' Above Floor, Add	9.01	
		For Elevated Installation >20' To 25' Above Floor, Add	11.27	
		For Elevated Installation >25' To 30' Above Floor, Add	15.77	
		For Elevated Installation >30' To 35' Above Floor, Add	18.02	
		For Elevated Installation >35' To 40' Above Floor, Add	22.53	
		For Elevated Installation >40' Above Floor, Add	24.78	
		For Work In Restricted Working Space, Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-1418	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	134.88	27.36
		For Elevated Installation >10' To 15' Above Floor, Add	5.47	
		For Elevated Installation >15' To 20' Above Floor, Add	10.94	
		For Elevated Installation >20' To 25' Above Floor, Add	13.68	
		For Elevated Installation >25' To 30' Above Floor, Add	19.15	
		For Elevated Installation >30' To 35' Above Floor, Add	21.89	
		For Elevated Installation >35' To 40' Above Floor, Add	27.36	
		For Elevated Installation >40' Above Floor, Add	30.10	
		For Work In Restricted Working Space, Add	16.42	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 05 33 13-1419	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	170.06	37.82
		For Elevated Installation >10' To 15' Above Floor, Add	7.56	
		For Elevated Installation >15' To 20' Above Floor, Add	15.13	
		For Elevated Installation >20' To 25' Above Floor, Add	18.91	
		For Elevated Installation >25' To 30' Above Floor, Add	26.47	
		For Elevated Installation >30' To 35' Above Floor, Add	30.26	
		For Elevated Installation >35' To 40' Above Floor, Add	37.82	
		For Elevated Installation >40' Above Floor, Add	41.60	
		For Work In Restricted Working Space, Add	22.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.69	
26 05 33 13-1420	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	197.41	42.65
		For Elevated Installation >10' To 15' Above Floor, Add	8.53	
		For Elevated Installation >15' To 20' Above Floor, Add	17.06	
		For Elevated Installation >20' To 25' Above Floor, Add	21.32	
		For Elevated Installation >25' To 30' Above Floor, Add	29.85	
		For Elevated Installation >30' To 35' Above Floor, Add	34.12	
		For Elevated Installation >35' To 40' Above Floor, Add	42.65	
		For Elevated Installation >40' Above Floor, Add	46.91	
		For Work In Restricted Working Space, Add	25.59	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.59	
26 05 33 13-1421	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	237.67	55.53
		For Elevated Installation >10' To 15' Above Floor, Add	11.10	
		For Elevated Installation >15' To 20' Above Floor, Add	22.21	
		For Elevated Installation >20' To 25' Above Floor, Add	27.76	
		For Elevated Installation >25' To 30' Above Floor, Add	38.86	
		For Elevated Installation >30' To 35' Above Floor, Add	44.42	
		For Elevated Installation >35' To 40' Above Floor, Add	55.52	
		For Elevated Installation >40' Above Floor, Add	61.07	
		For Work In Restricted Working Space, Add	33.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1422	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	329.45	76.45	
		For Elevated Installation >10' To 15' Above Floor, Add	15.29		
		For Elevated Installation >15' To 20' Above Floor, Add	30.58		
		For Elevated Installation >20' To 25' Above Floor, Add	38.22		
		For Elevated Installation >25' To 30' Above Floor, Add	53.51		
		For Elevated Installation >30' To 35' Above Floor, Add	61.15		
		For Elevated Installation >35' To 40' Above Floor, Add	76.44		
		For Elevated Installation >40' Above Floor, Add	84.08		
		For Work In Restricted Working Space, Add	45.86		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.86		
26 05 33 13-1423	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	45.25	10.47	
		For Elevated Installation >10' To 15' Above Floor, Add	2.09		
		For Elevated Installation >15' To 20' Above Floor, Add	4.18		
		For Elevated Installation >20' To 25' Above Floor, Add	5.23		
		For Elevated Installation >25' To 30' Above Floor, Add	7.32		
		For Elevated Installation >30' To 35' Above Floor, Add	8.37		
		For Elevated Installation >35' To 40' Above Floor, Add	10.46		
		For Elevated Installation >40' Above Floor, Add	11.51		
		For Work In Restricted Working Space, Add	6.28		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.28		
26 05 33 13-1424	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.05	12.07	
		For Elevated Installation >10' To 15' Above Floor, Add	2.41		
		For Elevated Installation >15' To 20' Above Floor, Add	4.83		
		For Elevated Installation >20' To 25' Above Floor, Add	6.04		
		For Elevated Installation >25' To 30' Above Floor, Add	8.45		
		For Elevated Installation >30' To 35' Above Floor, Add	9.66		
		For Elevated Installation >35' To 40' Above Floor, Add	12.07		
		For Elevated Installation >40' Above Floor, Add	13.28		
		For Work In Restricted Working Space, Add	7.24		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24		
26 05 33 13-1425	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	57.79	15.29	
		For Elevated Installation >10' To 15' Above Floor, Add	3.06		
		For Elevated Installation >15' To 20' Above Floor, Add	6.11		
		For Elevated Installation >20' To 25' Above Floor, Add	7.64		
		For Elevated Installation >25' To 30' Above Floor, Add	10.70		
		For Elevated Installation >30' To 35' Above Floor, Add	12.23		
		For Elevated Installation >35' To 40' Above Floor, Add	15.29		
		For Elevated Installation >40' Above Floor, Add	16.81		
		For Work In Restricted Working Space, Add	9.17		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17		
26 05 33 13-1426	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	69.48	17.70	
		For Elevated Installation >10' To 15' Above Floor, Add	3.54		
		For Elevated Installation >15' To 20' Above Floor, Add	7.08		
		For Elevated Installation >20' To 25' Above Floor, Add	8.85		
		For Elevated Installation >25' To 30' Above Floor, Add	12.39		
		For Elevated Installation >30' To 35' Above Floor, Add	14.16		
		For Elevated Installation >35' To 40' Above Floor, Add	17.70		
		For Elevated Installation >40' Above Floor, Add	19.47		
		For Work In Restricted Working Space, Add	10.62		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62		
26 05 33 13-1427	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	80.83	20.12	
		For Elevated Installation >10' To 15' Above Floor, Add	4.02		
		For Elevated Installation >15' To 20' Above Floor, Add	8.05		
		For Elevated Installation >20' To 25' Above Floor, Add	10.06		
		For Elevated Installation >25' To 30' Above Floor, Add	14.08		
		For Elevated Installation >30' To 35' Above Floor, Add	16.09		
		For Elevated Installation >35' To 40' Above Floor, Add	20.12		
		For Elevated Installation >40' Above Floor, Add	22.13		
		For Work In Restricted Working Space, Add	12.07		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07		
26 05 33 13-1428	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	97.81	22.53	
		For Elevated Installation >10' To 15' Above Floor, Add	4.51		
		For Elevated Installation >15' To 20' Above Floor, Add	9.01		
		For Elevated Installation >20' To 25' Above Floor, Add	11.27		
		For Elevated Installation >25' To 30' Above Floor, Add	15.77		
		For Elevated Installation >30' To 35' Above Floor, Add	18.02		
		For Elevated Installation >35' To 40' Above Floor, Add	22.53		
		For Elevated Installation >40' Above Floor, Add	24.78		
		For Work In Restricted Working Space, Add	13.52		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52		
26 05 33 13-1429	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	146.90	27.36	
		For Elevated Installation >10' To 15' Above Floor, Add	5.47		
		For Elevated Installation >15' To 20' Above Floor, Add	10.94		
		For Elevated Installation >20' To 25' Above Floor, Add	13.68		
		For Elevated Installation >25' To 30' Above Floor, Add	19.15		
		For Elevated Installation >30' To 35' Above Floor, Add	21.89		
		For Elevated Installation >35' To 40' Above Floor, Add	27.36		
		For Elevated Installation >40' Above Floor, Add	30.10		
		For Work In Restricted Working Space, Add	16.42		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1430 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	187.23	37.82
For Elevated Installation >10' To 15' Above Floor, Add	7.56	
For Elevated Installation >15' To 20' Above Floor, Add	15.13	
For Elevated Installation >20' To 25' Above Floor, Add	18.91	
For Elevated Installation >25' To 30' Above Floor, Add	26.47	
For Elevated Installation >30' To 35' Above Floor, Add	30.26	
For Elevated Installation >35' To 40' Above Floor, Add	37.82	
For Elevated Installation >40' Above Floor, Add	41.60	
For Work In Restricted Working Space, Add	22.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.69	
26 05 33 13-1431 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	220.61	42.65
For Elevated Installation >10' To 15' Above Floor, Add	8.53	
For Elevated Installation >15' To 20' Above Floor, Add	17.06	
For Elevated Installation >20' To 25' Above Floor, Add	21.32	
For Elevated Installation >25' To 30' Above Floor, Add	29.85	
For Elevated Installation >30' To 35' Above Floor, Add	34.12	
For Elevated Installation >35' To 40' Above Floor, Add	42.65	
For Elevated Installation >40' Above Floor, Add	46.91	
For Work In Restricted Working Space, Add	25.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.59	
26 05 33 13-1432 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	276.77	55.53
For Elevated Installation >10' To 15' Above Floor, Add	11.10	
For Elevated Installation >15' To 20' Above Floor, Add	22.21	
For Elevated Installation >20' To 25' Above Floor, Add	27.76	
For Elevated Installation >25' To 30' Above Floor, Add	38.86	
For Elevated Installation >30' To 35' Above Floor, Add	44.42	
For Elevated Installation >35' To 40' Above Floor, Add	55.52	
For Elevated Installation >40' Above Floor, Add	61.07	
For Work In Restricted Working Space, Add	33.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	
26 05 33 13-1433 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	359.88	76.45
For Elevated Installation >10' To 15' Above Floor, Add	15.29	
For Elevated Installation >15' To 20' Above Floor, Add	30.58	
For Elevated Installation >20' To 25' Above Floor, Add	38.22	
For Elevated Installation >25' To 30' Above Floor, Add	53.51	
For Elevated Installation >30' To 35' Above Floor, Add	61.15	
For Elevated Installation >35' To 40' Above Floor, Add	76.44	
For Elevated Installation >40' Above Floor, Add	84.08	
For Work In Restricted Working Space, Add	45.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.86	
26 05 33 13-1434 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	46.22	10.47
For Elevated Installation >10' To 15' Above Floor, Add	2.09	
For Elevated Installation >15' To 20' Above Floor, Add	4.18	
For Elevated Installation >20' To 25' Above Floor, Add	5.23	
For Elevated Installation >25' To 30' Above Floor, Add	7.32	
For Elevated Installation >30' To 35' Above Floor, Add	8.37	
For Elevated Installation >35' To 40' Above Floor, Add	10.46	
For Elevated Installation >40' Above Floor, Add	11.51	
For Work In Restricted Working Space, Add	6.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.28	
26 05 33 13-1435 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	50.14	12.07
For Elevated Installation >10' To 15' Above Floor, Add	2.41	
For Elevated Installation >15' To 20' Above Floor, Add	4.83	
For Elevated Installation >20' To 25' Above Floor, Add	6.04	
For Elevated Installation >25' To 30' Above Floor, Add	8.45	
For Elevated Installation >30' To 35' Above Floor, Add	9.66	
For Elevated Installation >35' To 40' Above Floor, Add	12.07	
For Elevated Installation >40' Above Floor, Add	13.28	
For Work In Restricted Working Space, Add	7.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.24	
26 05 33 13-1436 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	61.26	15.29
For Elevated Installation >10' To 15' Above Floor, Add	3.06	
For Elevated Installation >15' To 20' Above Floor, Add	6.11	
For Elevated Installation >20' To 25' Above Floor, Add	7.64	
For Elevated Installation >25' To 30' Above Floor, Add	10.70	
For Elevated Installation >30' To 35' Above Floor, Add	12.23	
For Elevated Installation >35' To 40' Above Floor, Add	15.29	
For Elevated Installation >40' Above Floor, Add	16.81	
For Work In Restricted Working Space, Add	9.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.17	
26 05 33 13-1437 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	76.32	17.70
For Elevated Installation >10' To 15' Above Floor, Add	3.54	
For Elevated Installation >15' To 20' Above Floor, Add	7.08	
For Elevated Installation >20' To 25' Above Floor, Add	8.85	
For Elevated Installation >25' To 30' Above Floor, Add	12.39	
For Elevated Installation >30' To 35' Above Floor, Add	14.16	
For Elevated Installation >35' To 40' Above Floor, Add	17.70	
For Elevated Installation >40' Above Floor, Add	19.47	
For Work In Restricted Working Space, Add	10.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.62	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1438	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	88.94	20.12
		For Elevated Installation >10' To 15' Above Floor, Add	4.02	
		For Elevated Installation >15' To 20' Above Floor, Add	8.05	
		For Elevated Installation >20' To 25' Above Floor, Add	10.06	
		For Elevated Installation >25' To 30' Above Floor, Add	14.08	
		For Elevated Installation >30' To 35' Above Floor, Add	16.09	
		For Elevated Installation >35' To 40' Above Floor, Add	20.12	
		For Elevated Installation >40' Above Floor, Add	22.13	
		For Work In Restricted Working Space, Add	12.07	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.07	
26 05 33 13-1439	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	105.95	22.53
		For Elevated Installation >10' To 15' Above Floor, Add	4.51	
		For Elevated Installation >15' To 20' Above Floor, Add	9.01	
		For Elevated Installation >20' To 25' Above Floor, Add	11.27	
		For Elevated Installation >25' To 30' Above Floor, Add	15.77	
		For Elevated Installation >30' To 35' Above Floor, Add	18.02	
		For Elevated Installation >35' To 40' Above Floor, Add	22.53	
		For Elevated Installation >40' Above Floor, Add	24.78	
		For Work In Restricted Working Space, Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-1440	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	162.93	27.36
		For Elevated Installation >10' To 15' Above Floor, Add	5.47	
		For Elevated Installation >15' To 20' Above Floor, Add	10.94	
		For Elevated Installation >20' To 25' Above Floor, Add	13.68	
		For Elevated Installation >25' To 30' Above Floor, Add	19.15	
		For Elevated Installation >30' To 35' Above Floor, Add	21.89	
		For Elevated Installation >35' To 40' Above Floor, Add	27.36	
		For Elevated Installation >40' Above Floor, Add	30.10	
		For Work In Restricted Working Space, Add	16.42	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 05 33 13-1441	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	212.97	37.82
		For Elevated Installation >10' To 15' Above Floor, Add	7.56	
		For Elevated Installation >15' To 20' Above Floor, Add	15.13	
		For Elevated Installation >20' To 25' Above Floor, Add	18.91	
		For Elevated Installation >25' To 30' Above Floor, Add	26.47	
		For Elevated Installation >30' To 35' Above Floor, Add	30.26	
		For Elevated Installation >35' To 40' Above Floor, Add	37.82	
		For Elevated Installation >40' Above Floor, Add	41.60	
		For Work In Restricted Working Space, Add	22.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.69	
26 05 33 13-1442	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	234.84	42.65
		For Elevated Installation >10' To 15' Above Floor, Add	8.53	
		For Elevated Installation >15' To 20' Above Floor, Add	17.06	
		For Elevated Installation >20' To 25' Above Floor, Add	21.32	
		For Elevated Installation >25' To 30' Above Floor, Add	29.85	
		For Elevated Installation >30' To 35' Above Floor, Add	34.12	
		For Elevated Installation >35' To 40' Above Floor, Add	42.65	
		For Elevated Installation >40' Above Floor, Add	46.91	
		For Work In Restricted Working Space, Add	25.59	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.59	
26 05 33 13-1443	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	288.76	55.53
		For Elevated Installation >10' To 15' Above Floor, Add	11.10	
		For Elevated Installation >15' To 20' Above Floor, Add	22.21	
		For Elevated Installation >20' To 25' Above Floor, Add	27.76	
		For Elevated Installation >25' To 30' Above Floor, Add	38.86	
		For Elevated Installation >30' To 35' Above Floor, Add	44.42	
		For Elevated Installation >35' To 40' Above Floor, Add	55.52	
		For Elevated Installation >40' Above Floor, Add	61.07	
		For Work In Restricted Working Space, Add	33.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.31	
26 05 33 13-1444	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	364.22	76.45
		For Elevated Installation >10' To 15' Above Floor, Add	15.29	
		For Elevated Installation >15' To 20' Above Floor, Add	30.58	
		For Elevated Installation >20' To 25' Above Floor, Add	38.22	
		For Elevated Installation >25' To 30' Above Floor, Add	53.51	
		For Elevated Installation >30' To 35' Above Floor, Add	61.15	
		For Elevated Installation >35' To 40' Above Floor, Add	76.44	
		For Elevated Installation >40' Above Floor, Add	84.08	
		For Work In Restricted Working Space, Add	45.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.86	
26 05 33 13-1445		Aluminum Rigid Conduit (ARC) (26 05 33 13-0059)		
		Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1446		Aluminum Rigid Conduit (ARC) With Threaded Coupling (26 05 33 13-1445)		
		Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-1447	LF	1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	7.20	2.48
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.93	
		For Work In Restricted Working Space, Add	1.86	
26 05 33 13-1448	LF	3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	8.15	2.72
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.02	
		For Work In Restricted Working Space, Add	2.04	
26 05 33 13-1449	LF	1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	9.34	2.97
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.11	
		For Work In Restricted Working Space, Add	2.23	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1450 LF 1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	10.56	3.22
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.21	
For Work In Restricted Working Space, Add	2.42	
26 05 33 13-1451 LF 1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	11.78	3.46
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.30	
For Work In Restricted Working Space, Add	2.60	
26 05 33 13-1452 LF 2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	14.06	3.96
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.49	
For Work In Restricted Working Space, Add	2.97	
26 05 33 13-1453 LF 2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	18.95	4.96
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.86	
For Work In Restricted Working Space, Add	3.71	
26 05 33 13-1454 LF 3" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	23.50	5.94
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.23	
For Work In Restricted Working Space, Add	4.46	
26 05 33 13-1455 LF 3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	28.94	7.43
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.79	
For Work In Restricted Working Space, Add	5.57	
26 05 33 13-1456 LF 4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	35.80	9.41
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	3.53	
For Work In Restricted Working Space, Add	7.06	
26 05 33 13-1457 LF 5" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	47.28	11.88
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	4.46	
For Work In Restricted Working Space, Add	8.91	
26 05 33 13-1458 LF 6" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	60.26	14.86
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	5.57	
For Work In Restricted Working Space, Add	11.14	
26 05 33 13-1459 Aluminum 90 Degree Elbows (26 05 33 13-1445)		
26 05 33 13-1460 EA 1" Aluminum 90 Degree Elbow.....	42.89	12.87
For Work In Restricted Working Space, Add	9.66	
26 05 33 13-1461 EA 1-1/4" Aluminum 90 Degree Elbow.....	53.52	14.61
For Work In Restricted Working Space, Add	10.96	
26 05 33 13-1462 EA 1-1/2" Aluminum 90 Degree Elbow.....	64.71	16.84
For Work In Restricted Working Space, Add	12.63	
26 05 33 13-1463 EA 2" Aluminum 90 Degree Elbow.....	81.59	19.32
For Work In Restricted Working Space, Add	14.48	
26 05 33 13-1464 EA 2-1/2" Aluminum 90 Degree Elbow.....	114.93	23.52
For Work In Restricted Working Space, Add	17.64	
26 05 33 13-1465 EA 3" Aluminum 90 Degree Elbow.....	162.84	30.45
For Work In Restricted Working Space, Add	22.84	
26 05 33 13-1466 EA 3-1/2" Aluminum 90 Degree Elbow.....	220.65	34.17
For Work In Restricted Working Space, Add	25.63	
26 05 33 13-1467 EA 4" Aluminum 90 Degree Elbow.....	267.42	42.84
For Work In Restricted Working Space, Add	32.12	
26 05 33 13-1468 EA 5" Aluminum 90 Degree Elbow.....	648.65	69.83
For Work In Restricted Working Space, Add	52.37	
26 05 33 13-1469 EA 6" Aluminum 90 Degree Elbow.....	918.40	104.98
For Work In Restricted Working Space, Add	78.74	
26 05 33 13-1470 Aluminum Bushing Set With Locknut (26 05 33 13-1445)		
26 05 33 13-1471 EA 1/2" Aluminum Bushing Set With Locknut.....	13.19	4.96
For Work In Restricted Working Space, Add	3.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 33 13-1472 EA 3/4" Aluminum Bushing Set With Locknut.....	19.37	6.44
For Work In Restricted Working Space, Add	4.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-1473 EA 1" Aluminum Bushing Set With Locknut.....	20.34	7.93
For Work In Restricted Working Space, Add	5.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-1474 EA 1-1/4" Aluminum Bushing Set With Locknut.....	22.88	8.91
For Work In Restricted Working Space, Add	6.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.69	
26 05 33 13-1475 EA 1-1/2" Aluminum Bushing Set With Locknut.....	27.98	10.90
For Work In Restricted Working Space, Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-1476 EA 2" Aluminum Bushing Set With Locknut.....	34.05	13.12
For Work In Restricted Working Space, Add	9.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.84	
26 05 33 13-1477 EA 2-1/2" Aluminum Bushing Set With Locknut.....	41.53	15.60
For Work In Restricted Working Space, Add	11.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.70	
26 05 33 13-1478 EA 3" Aluminum Bushing Set With Locknut.....	48.33	17.83
For Work In Restricted Working Space, Add	13.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-1479 EA 3-1/2" Aluminum Bushing Set With Locknut.....	52.28	19.32
For Work In Restricted Working Space, Add	14.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.48	
26 05 33 13-1480 EA 4" Aluminum Bushing Set With Locknut.....	56.80	20.80
For Work In Restricted Working Space, Add	15.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.60	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1481	EA	5" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.34 20.80 20.80	27.73
26 05 33 13-1482	EA	6" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.24 31.20 31.20	41.60
26 05 33 13-1483		Schedule 40 Polyvinyl Chloride (PVC) Conduit (26 05 33 13-0059) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1484		Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings (26 05 33 13-1483) Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2518 for field bending >1".		
26 05 33 13-1485	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	5.68 0.48 0.81	1.88
26 05 33 13-1486	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	6.48 0.59 0.98	2.06
26 05 33 13-1487	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	7.99 0.79 1.29	2.41
26 05 33 13-1488	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	9.51 1.00 1.61	2.76
26 05 33 13-1489	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	11.18 1.19 1.91	3.21
26 05 33 13-1490	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	13.32 1.50 2.37	3.67
26 05 33 13-1491	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	17.52 2.20 3.41	4.36
26 05 33 13-1492	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	20.50 2.60 4.02	5.04
26 05 33 13-1493	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	24.99 3.27 5.02	5.96
26 05 33 13-1494	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	29.42 3.69 5.71	7.34
26 05 33 13-1495	LF	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	41.96 5.33 8.24	10.32
26 05 33 13-1496	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	55.74 7.06 10.91	13.76
26 05 33 13-1497		Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows (26 05 33 13-1483) See CSI section 26 05 33 13-2518 for conduit field bending.		
26 05 33 13-1498	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	24.30 1.49 2.77	9.17
26 05 33 13-1499	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	26.89 1.68 3.10	10.09
26 05 33 13-1500	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	31.25 2.08 3.77	11.47
26 05 33 13-1501	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	40.42 2.77 4.97	14.67
26 05 33 13-1502	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	50.92 3.56 6.35	18.34
26 05 33 13-1503	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	64.35 4.62 8.19	22.93
26 05 33 13-1504	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	81.12 6.52 11.19	27.52

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1505	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	100.33 9.03 15.05	32.11
26 05 33 13-1506	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	125.32 11.84 19.49	38.99
26 05 33 13-1507	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	150.50 14.69 24.01	45.87
26 05 33 13-1508	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	206.66 23.00 36.50	57.33
26 05 33 13-1509	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	252.70 28.78 45.45	68.80
26 05 33 13-1510 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1483)				
26 05 33 13-1511	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	24.30 1.49 2.77	9.17
26 05 33 13-1512	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	26.79 1.65 3.07	10.09
26 05 33 13-1513	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	31.12 2.05 3.72	11.47
26 05 33 13-1514	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	40.03 2.67 4.84	14.67
26 05 33 13-1515	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	50.04 3.34 6.05	18.34
26 05 33 13-1516	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	63.88 4.50 8.03	22.93
26 05 33 13-1517	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	80.24 6.30 10.88	27.52
26 05 33 13-1518	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	99.21 8.75 14.66	32.11
26 05 33 13-1519	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	122.18 11.05 18.40	38.99
26 05 33 13-1520	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	147.80 14.02 23.06	45.87
26 05 33 13-1521	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	203.16 22.12 35.27	57.33
26 05 33 13-1522	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	242.28 26.17 41.80	68.80
26 05 33 13-1523 Schedule 40 Polyvinyl Chloride (PVC) Conduit 18" Large Radius Elbow (26 05 33 13-1483)				
26 05 33 13-1524	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	114.07 24.63	30.57
26 05 33 13-1525	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	134.11 29.24	35.41
26 05 33 13-1526	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	151.68 32.97	40.24
26 05 33 13-1527	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	183.94 42.25	44.26
26 05 33 13-1528	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... <i>For Schedule 80, Add</i>	244.61 57.85	55.53



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1529	EA		3" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow	316.32	75.64
			For Schedule 80, Add	72.89	
26 05 33 13-1530	EA		3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow	386.93	85.30
			For Schedule 80, Add	92.78	
26 05 33 13-1531	EA		4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow	454.10	111.05
			For Schedule 80, Add	103.41	
26 05 33 13-1532 Schedule 40 Polyvinyl Chloride (PVC) Conduit 24" Large Radius Elbow (26 05					
			33 13-1483)		
26 05 33 13-1533	EA		1" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow	123.79	30.57
			For Schedule 80, Add	28.04	
26 05 33 13-1534	EA		1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow	157.49	35.41
			For Schedule 80, Add	37.42	
26 05 33 13-1535	EA		1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow	185.15	40.24
			For Schedule 80, Add	44.69	
26 05 33 13-1536	EA		2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow	200.51	44.26
			For Schedule 80, Add	48.05	
26 05 33 13-1537	EA		2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow	295.68	55.53
			For Schedule 80, Add	75.73	
26 05 33 13-1538	EA		3" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow	390.58	75.64
			For Schedule 80, Add	98.88	
26 05 33 13-1539	EA		3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow	432.65	85.30
			For Schedule 80, Add	108.78	
26 05 33 13-1540	EA		4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow	509.45	111.05
			For Schedule 80, Add	122.78	
26 05 33 13-1541 Schedule 40 Polyvinyl Chloride (PVC) Conduit 30" Large Radius Elbow (26 05					
			33 13-1483)		
26 05 33 13-1542	EA		1" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow	149.99	30.57
			For Schedule 80, Add	37.21	
26 05 33 13-1543	EA		1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow	168.47	35.41
			For Schedule 80, Add	41.26	
26 05 33 13-1544	EA		1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow	191.60	40.24
			For Schedule 80, Add	46.94	
26 05 33 13-1545	EA		2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow	231.75	44.26
			For Schedule 80, Add	58.98	
26 05 33 13-1546	EA		2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow	314.70	55.53
			For Schedule 80, Add	82.38	
26 05 33 13-1547	EA		3" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow	406.54	75.64
			For Schedule 80, Add	104.47	
26 05 33 13-1548	EA		3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow	493.51	85.30
			For Schedule 80, Add	130.08	
26 05 33 13-1549	EA		4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow	564.11	111.05
			For Schedule 80, Add	141.91	
26 05 33 13-1550 Schedule 40 Polyvinyl Chloride (PVC) Conduit 36" Large Radius Elbow (26 05					
			33 13-1483)		
26 05 33 13-1551	EA		1" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	155.34	30.57
			For Schedule 80, Add	39.08	
26 05 33 13-1552	EA		1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	200.95	35.41
			For Schedule 80, Add	52.63	
26 05 33 13-1553	EA		1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	217.36	40.24
			For Schedule 80, Add	55.96	
26 05 33 13-1554	EA		2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	232.91	44.26
			For Schedule 80, Add	59.39	
26 05 33 13-1555	EA		2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	356.60	55.53
			For Schedule 80, Add	97.05	
26 05 33 13-1556	EA		3" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	500.44	75.64
			For Schedule 80, Add	137.33	
26 05 33 13-1557	EA		3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	579.01	85.30
			For Schedule 80, Add	160.00	
26 05 33 13-1558	EA		4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	665.37	111.05
			For Schedule 80, Add	177.35	
26 05 33 13-1559	EA		5" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	1,061.32	180.75
			For Schedule 80, Add	280.93	
26 05 33 13-1560	EA		6" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow	1,546.91	272.36
			For Schedule 80, Add	405.43	
26 05 33 13-1561 Schedule 40 Polyvinyl Chloride (PVC) Conduit 48" Large Radius Elbow (26 05					
			33 13-1483)		
26 05 33 13-1562	EA		1" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	175.89	30.57
			For Schedule 80, Add	46.27	
26 05 33 13-1563	EA		1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	206.45	35.41
			For Schedule 80, Add	54.56	
26 05 33 13-1564	EA		1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	233.90	40.24
			For Schedule 80, Add	61.75	
26 05 33 13-1565	EA		2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	290.01	44.26
			For Schedule 80, Add	79.37	
26 05 33 13-1566	EA		2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	397.49	55.53
			For Schedule 80, Add	111.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1567 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	567.60 160.84	75.64
26 05 33 13-1568 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	643.22 182.48	85.30
26 05 33 13-1569 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	776.82 216.36	111.05
26 05 33 13-1570 EA 5" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	1,126.52 303.75	180.75
26 05 33 13-1571 EA 6" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	1,599.70 423.90	272.36
26 05 33 13-1572 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1483)		
26 05 33 13-1573 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.69 4.82	6.43
26 05 33 13-1574 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.20 5.50	7.34
26 05 33 13-1575 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.83 6.19	8.26
26 05 33 13-1576 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.56 6.88	9.17
26 05 33 13-1577 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.46 8.60	11.47
26 05 33 13-1578 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.96 10.32	13.76
26 05 33 13-1579 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.54 13.76	18.34
26 05 33 13-1580 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.67 17.20	22.93
26 05 33 13-1581 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.57 22.36	29.81
26 05 33 13-1582 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.16 27.52	36.70
26 05 33 13-1583 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131.73 34.40	45.87
26 05 33 13-1584 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	163.94 43.00	57.33
26 05 33 13-1585 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1483)		
26 05 33 13-1586 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.87 4.13	5.50
26 05 33 13-1587 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.54 4.82	6.43
26 05 33 13-1588 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.23 5.50	7.34
26 05 33 13-1589 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.72 6.19	8.26
26 05 33 13-1590 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.02 6.88	9.17
26 05 33 13-1591 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.36 7.91	10.54
26 05 33 13-1592 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.96 8.94	11.93
26 05 33 13-1593 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.71 10.32	13.76
26 05 33 13-1594 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.63 12.04	16.06
26 05 33 13-1595 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.79 13.76	18.34
26 05 33 13-1596 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.21 15.48	20.64
26 05 33 13-1597 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.22 17.20	22.93
26 05 33 13-1598 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1483)		
26 05 33 13-1599 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.17 5.29	
26 05 33 13-1600 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.00 6.34	
26 05 33 13-1601 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.53 7.04	
26 05 33 13-1602 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.54 7.85	
26 05 33 13-1603 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.24 8.60	11.47
26 05 33 13-1604 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.66 10.32	13.76
26 05 33 13-1605 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.94 13.76	18.34
26 05 33 13-1606 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.84 17.20	22.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1607 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.50 22.36	29.81
26 05 33 13-1608 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.07 27.52	36.70
26 05 33 13-1609 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	129.57 34.40	45.87
26 05 33 13-1610 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	161.35 43.00	57.33
26 05 33 13-1611 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover (26 05 33 13-1483)		
26 05 33 13-1612 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.71 13.76	18.34
26 05 33 13-1613 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.86 15.48	20.64
26 05 33 13-1614 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.49 17.20	22.93
26 05 33 13-1615 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.87 20.64	27.52
26 05 33 13-1616 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.32 25.80	34.40
26 05 33 13-1617 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.36 30.96	41.28
26 05 33 13-1618 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	216.16 34.40	45.87
26 05 33 13-1619 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.18 37.84	50.46
26 05 33 13-1620 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.93 43.00	57.33
26 05 33 13-1621 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	281.99 49.88	66.51
26 05 33 13-1622 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover (26 05 33 13-1483)		
26 05 33 13-1623 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.67 18.57	24.76
26 05 33 13-1624 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.85 20.43	27.23
26 05 33 13-1625 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.27 22.28	29.71
26 05 33 13-1626 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.67 26.00	34.67
26 05 33 13-1627 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.52 31.57	42.09
26 05 33 13-1628 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.96 37.14	49.52
26 05 33 13-1629 Polyvinyl Chloride (PVC) Conduit Expansion Joint (26 05 33 13-1483)		
26 05 33 13-1630 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	107.07	22.93
26 05 33 13-1631 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	119.80	27.52
26 05 33 13-1632 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	133.29	32.11
26 05 33 13-1633 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	146.04	36.70
26 05 33 13-1634 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	158.48	41.28
26 05 33 13-1635 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	173.35	45.87
26 05 33 13-1636 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	211.18	52.74
26 05 33 13-1637 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	251.97	59.63
26 05 33 13-1638 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	294.65	68.80
26 05 33 13-1639 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	350.09	80.27
26 05 33 13-1640 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	460.45	96.33
26 05 33 13-1641 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	604.64	123.84
26 05 33 13-1642 Polyvinyl Chloride (PVC) Conduit End Caps (26 05 33 13-1483)		
26 05 33 13-1643 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.09 3.44	4.59
26 05 33 13-1644 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.68 4.13	5.50
26 05 33 13-1645 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.22 4.82	6.43
26 05 33 13-1646 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.89 5.50	7.34
26 05 33 13-1647 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.62 6.19	8.26
26 05 33 13-1648 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.31 6.88	9.17
26 05 33 13-1649 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.05 7.91	10.54
26 05 33 13-1650 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.35 8.94	11.93

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1651 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.32 9.98	13.30
26 05 33 13-1652 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.71 10.66	14.22
26 05 33 13-1653 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.74 12.04	16.06
26 05 33 13-1654 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107.99 13.76	18.34
26 05 33 13-1655 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-1483)		
26 05 33 13-1656 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.05 30.96	41.28
26 05 33 13-1657 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.27 20.64	27.52
26 05 33 13-1658 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	361.34 34.40	45.87
26 05 33 13-1659 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	703.01 49.88	66.51
26 05 33 13-1660 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-0059)		
Note: Exposed installation. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1661 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1660)		
Note: Includes field bending conduit up to and including 1".		
26 05 33 13-1662 LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	9.20	1.88
26 05 33 13-1663 LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	10.23	2.06
26 05 33 13-1664 LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	11.38	2.39
26 05 33 13-1665 LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	12.54	2.76
26 05 33 13-1666 LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	14.15	3.21
26 05 33 13-1667 LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	15.45	3.67
26 05 33 13-1668 LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	18.42	4.36
26 05 33 13-1669 LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	21.64	5.04
26 05 33 13-1670 LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	25.05	5.96
26 05 33 13-1671 LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	29.62	7.34
26 05 33 13-1672 LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	39.89	10.32
26 05 33 13-1673 LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	52.03	13.76
26 05 33 13-1674 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1660)		
26 05 33 13-1675 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	106.21 7.39 10.62 13.85	9.17
26 05 33 13-1676 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	118.46 8.25 11.85 15.44	10.09
26 05 33 13-1677 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	122.85 8.50 12.29 16.07	11.47
26 05 33 13-1678 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	131.80 8.97 13.18 17.39	14.67
26 05 33 13-1679 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	141.91 9.50 14.19 18.89	18.34
26 05 33 13-1680 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	166.62 11.06 16.66 22.26	22.93
26 05 33 13-1681 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	199.61 13.25 19.96 26.67	27.52
26 05 33 13-1682 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	237.24 15.79 23.72 31.66	32.11



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1683	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	274.06	38.99
			For 24" Radius, Add	18.12	
			For 36" Radius, Add	27.41	
			For 48" Radius, Add	36.69	
26 05 33 13-1684	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	310.88	45.87
			For 24" Radius, Add	20.45	
			For 36" Radius, Add	31.09	
			For 48" Radius, Add	41.73	
26 05 33 13-1685	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	388.61	57.33
			For 24" Radius, Add	25.56	
			For 36" Radius, Add	38.86	
			For 48" Radius, Add	52.16	
26 05 33 13-1686	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	478.58	68.80
			For 24" Radius, Add	31.59	
			For 36" Radius, Add	47.86	
			For 48" Radius, Add	64.12	
26 05 33 13-1687 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows					
(26 05 33 13-1660)					
26 05 33 13-1688	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	91.22	9.17
			For 24" Radius, Add	6.27	
			For 36" Radius, Add	9.12	
			For 48" Radius, Add	11.98	
26 05 33 13-1689	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	101.68	10.09
			For 24" Radius, Add	7.00	
			For 36" Radius, Add	10.17	
			For 48" Radius, Add	13.34	
26 05 33 13-1690	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	105.90	11.47
			For 24" Radius, Add	7.23	
			For 36" Radius, Add	10.59	
			For 48" Radius, Add	13.95	
26 05 33 13-1691	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	114.68	14.67
			For 24" Radius, Add	7.68	
			For 36" Radius, Add	11.47	
			For 48" Radius, Add	15.25	
26 05 33 13-1692	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	124.63	18.34
			For 24" Radius, Add	8.20	
			For 36" Radius, Add	12.46	
			For 48" Radius, Add	16.73	
26 05 33 13-1693	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	146.95	22.93
			For 24" Radius, Add	9.59	
			For 36" Radius, Add	14.70	
			For 48" Radius, Add	19.80	
26 05 33 13-1694	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	176.06	27.52
			For 24" Radius, Add	11.48	
			For 36" Radius, Add	17.61	
			For 48" Radius, Add	23.73	
26 05 33 13-1695	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	208.99	32.11
			For 24" Radius, Add	13.67	
			For 36" Radius, Add	20.90	
			For 48" Radius, Add	28.13	
26 05 33 13-1696	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	242.28	38.99
			For 24" Radius, Add	15.73	
			For 36" Radius, Add	24.23	
			For 48" Radius, Add	32.72	
26 05 33 13-1697	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	275.57	45.87
			For 24" Radius, Add	17.80	
			For 36" Radius, Add	27.56	
			For 48" Radius, Add	37.31	
26 05 33 13-1698	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	344.46	57.33
			For 24" Radius, Add	22.25	
			For 36" Radius, Add	34.45	
			For 48" Radius, Add	46.64	
26 05 33 13-1699	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	423.40	68.80
			For 24" Radius, Add	27.46	
			For 36" Radius, Add	42.34	
			For 48" Radius, Add	57.23	
26 05 33 13-1700 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows					
(26 05 33 13-1660)					
26 05 33 13-1701	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	84.76	8.26
			For 24" Radius, Add	5.84	
			For 36" Radius, Add	8.48	
			For 48" Radius, Add	11.11	
26 05 33 13-1702	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	94.49	9.08
			For 24" Radius, Add	6.52	
			For 36" Radius, Add	9.45	
			For 48" Radius, Add	12.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1703	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	98.32 6.73 9.83 12.94	10.32
26 05 33 13-1704	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	106.26 7.14 10.63 14.11	13.21
26 05 33 13-1705	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	115.23 7.61 11.52 15.44	16.51
26 05 33 13-1706	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	135.75 8.89 13.58 18.26	20.64
26 05 33 13-1707	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	162.65 10.65 16.27 21.88	24.77
26 05 33 13-1708	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	193.11 12.68 19.31 25.94	28.90
26 05 33 13-1709	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	223.71 14.59 22.37 30.16	35.09
26 05 33 13-1710	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	254.28 16.49 25.43 34.37	41.28
26 05 33 13-1711	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	317.86 20.61 31.79 42.96	51.60
26 05 33 13-1712	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	390.87 25.45 39.09 52.73	61.93
26 05 33 13-1713		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1660)		
26 05 33 13-1714	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	80.60 5.53 8.06 10.59	8.26
26 05 33 13-1715	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	89.83 6.17 8.98 11.80	9.08
26 05 33 13-1716	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	93.61 6.38 9.36 12.35	10.32
26 05 33 13-1717	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	101.50 6.79 10.15 13.51	13.21
26 05 33 13-1718	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	110.43 7.25 11.04 14.84	16.51
26 05 33 13-1719	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	130.29 8.48 13.03 17.58	20.64
26 05 33 13-1720	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	156.11 10.16 15.61 21.06	24.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1721 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	185.26 12.09 18.53 24.96	28.90
26 05 33 13-1722 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	214.88 13.92 21.49 29.05	35.09
26 05 33 13-1723 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	244.47 15.76 24.45 33.14	41.28
26 05 33 13-1724 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	305.59 19.69 30.56 41.42	51.60
26 05 33 13-1725 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows For 24" Radius, Add For 36" Radius, Add For 48" Radius, Add	375.54 24.30 37.55 50.81	61.93
26 05 33 13-1726 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-1660)		
26 05 33 13-1727 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	50.54	6.43
26 05 33 13-1728 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	56.76	7.34
26 05 33 13-1729 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	59.46	8.26
26 05 33 13-1730 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	62.07	9.17
26 05 33 13-1731 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	68.60	11.47
26 05 33 13-1732 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	81.95	13.76
26 05 33 13-1733 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	103.10	18.34
26 05 33 13-1734 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	126.00	22.93
26 05 33 13-1735 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	151.79	29.81
26 05 33 13-1736 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	177.59	36.70
26 05 33 13-1737 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	221.97	45.87
26 05 33 13-1738 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	277.42	57.33
26 05 33 13-1739 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-1660)		
26 05 33 13-1740 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	35.51	6.43
26 05 33 13-1741 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	39.96	7.34
26 05 33 13-1742 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	42.49	8.26
26 05 33 13-1743 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	45.01	9.17
26 05 33 13-1744 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	50.97	11.47
26 05 33 13-1745 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	56.83	13.76
26 05 33 13-1746 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	72.79	18.34
26 05 33 13-1747 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	89.64	22.93
26 05 33 13-1748 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	110.88	29.81
26 05 33 13-1749 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	132.13	36.70
26 05 33 13-1750 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	165.20	45.87
26 05 33 13-1751 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	206.45	57.33
26 05 33 13-1752 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-1660)		
26 05 33 13-1753 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	40.24	5.27
26 05 33 13-1754 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	45.22	7.34
26 05 33 13-1755 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	47.82	8.26
26 05 33 13-1756 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	50.27	9.17
26 05 33 13-1757 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	56.63	11.47
26 05 33 13-1758 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	67.69	13.76
26 05 33 13-1759 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	85.80	18.34
26 05 33 13-1760 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	105.24	22.93
26 05 33 13-1761 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	128.42	29.81
26 05 33 13-1762 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	151.62	36.70
26 05 33 13-1763 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	189.49	45.87
26 05 33 13-1764 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	236.90	57.33
26 05 33 13-1765 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-1660)		
26 05 33 13-1766 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	83.98	22.93
26 05 33 13-1767 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	98.36	27.52
26 05 33 13-1768 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	110.16	32.11
26 05 33 13-1769 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	121.83	36.70

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1770 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	133.97	41.28
26 05 33 13-1771 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	151.30	45.87
26 05 33 13-1772 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	175.82	52.74
26 05 33 13-1773 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	201.82	59.63
26 05 33 13-1774 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	231.34	68.80
26 05 33 13-1775 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	266.60	80.27
26 05 33 13-1776 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	311.75	91.74
26 05 33 13-1777 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	361.01	103.20
26 05 33 13-1778 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-1660)		
26 05 33 13-1779 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	94.80	22.93
26 05 33 13-1780 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	110.50	27.52
26 05 33 13-1781 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	122.36	32.11
26 05 33 13-1782 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	134.15	36.70
26 05 33 13-1783 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	146.40	41.28
26 05 33 13-1784 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	165.49	45.87
26 05 33 13-1785 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	192.86	52.74
26 05 33 13-1786 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	222.26	59.63
26 05 33 13-1787 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	254.34	68.80
26 05 33 13-1788 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	292.17	80.27
26 05 33 13-1789 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	343.80	91.74
26 05 33 13-1790 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	401.07	103.20
26 05 33 13-1791 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-1660)		
26 05 33 13-1792 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	105.17	6.43
26 05 33 13-1793 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	117.33	7.34
26 05 33 13-1794 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	122.67	8.26
26 05 33 13-1795 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	128.13	9.17
26 05 33 13-1796 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	135.51	11.47
26 05 33 13-1797 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	151.41	13.76
26 05 33 13-1798 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	186.29	18.34
26 05 33 13-1799 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	225.75	22.93
26 05 33 13-1800 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	264.01	29.81
26 05 33 13-1801 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	302.28	36.70
26 05 33 13-1802 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	377.92	45.87
26 05 33 13-1803 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	470.36	57.33
26 05 33 13-1804 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-1660)		
26 05 33 13-1805 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	113.63	22.93
26 05 33 13-1806 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	131.36	27.52
26 05 33 13-1807 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	157.55	32.11
26 05 33 13-1808 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	195.94	36.70
26 05 33 13-1809 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	246.04	41.28
26 05 33 13-1810 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	326.36	45.87
26 05 33 13-1811 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	464.98	52.74
26 05 33 13-1812 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	562.12	59.63
26 05 33 13-1813 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	679.99	68.80
26 05 33 13-1814 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	803.60	80.27
26 05 33 13-1815 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	945.52	91.74
26 05 33 13-1816 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,473.84	103.20
26 05 33 13-1817 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover (26 05 33 13-1660)		
26 05 33 13-1818 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	95.70	18.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.76	
26 05 33 13-1819 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	111.03	20.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.48	
26 05 33 13-1820 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	147.94	22.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.20	
26 05 33 13-1821 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	180.72	27.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.64	
26 05 33 13-1822 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	229.90	34.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.80	
26 05 33 13-1823 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	316.39	41.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.96	
26 05 33 13-1824 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	520.13	48.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.12	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1825 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	670.57	55.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.28	
26 05 33 13-1826 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	806.77	64.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.16	
26 05 33 13-1827 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	942.96	73.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.04	
26 05 33 13-1828 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	1,112.45	82.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.92	
26 05 33 13-1829 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	1,261.97	91.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.80	
26 05 33 13-1830 Explosion Proof Conduit Fittings (26 05 33 13-0059)		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1831 Explosion Proof Malleable Iron Conduit Unions (26 05 33 13-1830)		
26 05 33 13-1832 EA 1/2" Explosion Proof Malleable Iron Conduit Union	46.96	10.32
26 05 33 13-1833 EA 3/4" Explosion Proof Malleable Iron Conduit Union	57.65	11.41
26 05 33 13-1834 EA 1" Explosion Proof Malleable Iron Conduit Union	90.90	15.21
26 05 33 13-1835 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union	119.70	16.84
26 05 33 13-1836 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union	150.50	20.64
26 05 33 13-1837 EA 2" Explosion Proof Malleable Iron Conduit Union	187.15	23.89
26 05 33 13-1838 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union	284.33	34.14
26 05 33 13-1839 EA 3" Explosion Proof Malleable Iron Conduit Union	360.85	40.64
26 05 33 13-1840 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union	602.21	48.77
26 05 33 13-1841 EA 4" Explosion Proof Malleable Iron Conduit Union	640.76	62.31
26 05 33 13-1842 Explosion Proof Malleable Iron Conduit Bodies (26 05 33 13-1830)		
26 05 33 13-1843 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	165.56	32.59
26 05 33 13-1844 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	186.64	36.93
26 05 33 13-1845 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Conduit Body.....	218.11	40.73
26 05 33 13-1846 EA 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body.....	187.50	40.73
26 05 33 13-1847 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body.....	223.47	48.88
26 05 33 13-1848 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body.....	264.12	55.94
26 05 33 13-1849 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical (26 05 33 13-1830)		
Note: Includes sealing gasket and lock nut.		
26 05 33 13-1850 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	136.97	27.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.37	
26 05 33 13-1851 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	140.42	30.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.81	
26 05 33 13-1852 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	153.29	33.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.85	
26 05 33 13-1853 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	196.67	40.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.55	
26 05 33 13-1854 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	250.35	47.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.84	
26 05 33 13-1855 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	320.51	54.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.73	
26 05 33 13-1856 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	456.90	81.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.96	
26 05 33 13-1857 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	577.35	101.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.41	
26 05 33 13-1858 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	809.95	112.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.13	
26 05 33 13-1859 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	1,041.19	121.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.45	
26 05 33 13-1860 Explosion Proof Flexible Conduit Couplings (26 05 33 13-1830)		
26 05 33 13-1861 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling.....	356.73	12.49
26 05 33 13-1862 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling.....	466.36	14.12
26 05 33 13-1863 Flexible Conduit (26 05 33 13-0059)		
26 05 33 13-1864 Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-1863)		
Note: Steel inner core with PVC cover.		
26 05 33 13-1865 Flexible Liquid Tight Metallic Conduit (26 05 33 13-1864)		
26 05 33 13-1866 LF 3/8" Flexible Liquid Tight Metallic Conduit	5.21	1.49
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.56	
For Work In Restricted Working Space, Add	1.11	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1867	LF	1/2" Flexible Liquid Tight Metallic Conduit	5.43	1.49
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.56	
		For Work In Restricted Working Space, Add	1.11	
26 05 33 13-1868	LF	3/4" Flexible Liquid Tight Metallic Conduit	7.29	1.98
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.74	
		For Work In Restricted Working Space, Add	1.49	
26 05 33 13-1869	LF	1" Flexible Liquid Tight Metallic Conduit	8.48	1.98
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.74	
		For Work In Restricted Working Space, Add	1.49	
26 05 33 13-1870	LF	1-1/4" Flexible Liquid Tight Metallic Conduit	10.99	2.48
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.93	
		For Work In Restricted Working Space, Add	1.86	
26 05 33 13-1871	LF	1-1/2" Flexible Liquid Tight Metallic Conduit	14.16	2.97
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.11	
		For Work In Restricted Working Space, Add	2.23	
26 05 33 13-1872	LF	2" Flexible Liquid Tight Metallic Conduit	18.61	3.96
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.49	
		For Work In Restricted Working Space, Add	2.97	
26 05 33 13-1873	LF	2-1/2" Flexible Liquid Tight Metallic Conduit	25.53	4.46
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.67	
		For Work In Restricted Working Space, Add	3.34	
26 05 33 13-1874	LF	3" Flexible Liquid Tight Metallic Conduit	37.82	5.45
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.04	
		For Work In Restricted Working Space, Add	4.09	
26 05 33 13-1875	LF	4" Flexible Liquid Tight Metallic Conduit	51.87	6.93
		For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	2.60	
		For Work In Restricted Working Space, Add	5.20	
26 05 33 13-1876 Straight Liquid Tight Connector (26 05 33 13-1864)				
26 05 33 13-1877	EA	3/8" Straight Liquid Tight Connector	14.17	3.96
		For Work In Restricted Working Space, Add	2.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	
26 05 33 13-1878	EA	1/2" Straight Liquid Tight Connector	14.17	3.96
		For Work In Restricted Working Space, Add	2.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	
26 05 33 13-1879	EA	3/4" Straight Liquid Tight Connector	17.26	4.46
		For Work In Restricted Working Space, Add	3.34	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.34	
26 05 33 13-1880	EA	1" Straight Liquid Tight Connector	23.29	4.96
		For Work In Restricted Working Space, Add	3.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 33 13-1881	EA	1-1/4" Straight Liquid Tight Connector	30.12	5.45
		For Work In Restricted Working Space, Add	4.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.09	
26 05 33 13-1882	EA	1-1/2" Straight Liquid Tight Connector	38.40	5.94
		For Work In Restricted Working Space, Add	4.46	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-1883	EA	2" Straight Liquid Tight Connector	53.19	6.93
		For Work In Restricted Working Space, Add	5.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 05 33 13-1884	EA	2-1/2" Straight Liquid Tight Connector	185.09	8.91
		For Work In Restricted Working Space, Add	6.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.69	
26 05 33 13-1885	EA	3" Straight Liquid Tight Connector	239.12	9.41
		For Work In Restricted Working Space, Add	7.06	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-1886	EA	4" Straight Liquid Tight Connector	292.15	13.87
		For Work In Restricted Working Space, Add	10.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-1887 90 Degree Angle Liquid Tight Connector (26 05 33 13-1864)				
26 05 33 13-1888	EA	3/8" 90 Degree Angle Liquid Tight Connector	20.75	5.45
		For Work In Restricted Working Space, Add	4.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.09	
26 05 33 13-1889	EA	1/2" 90 Degree Angle Liquid Tight Connector	21.67	5.45
		For Work In Restricted Working Space, Add	4.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.09	
26 05 33 13-1890	EA	3/4" 90 Degree Angle Liquid Tight Connector	24.54	5.94
		For Work In Restricted Working Space, Add	4.46	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-1891	EA	1" 90 Degree Angle Liquid Tight Connector	34.93	6.93
		For Work In Restricted Working Space, Add	5.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 05 33 13-1892	EA	1-1/4" 90 Degree Angle Liquid Tight Connector	44.31	7.43
		For Work In Restricted Working Space, Add	5.57	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-1893	EA	1-1/2" 90 Degree Angle Liquid Tight Connector	54.00	7.93
		For Work In Restricted Working Space, Add	5.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-1894	EA	2" 90 Degree Angle Liquid Tight Connector	71.79	8.91
		For Work In Restricted Working Space, Add	6.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1895 EA 2-1/2" 90 Degree Angle Liquid Tight Connector	259.27	9.41
For Work In Restricted Working Space, Add	7.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-1896 EA 3" 90 Degree Angle Liquid Tight Connector.....	306.40	10.90
For Work In Restricted Working Space, Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-1897 EA 4" 90 Degree Angle Liquid Tight Connector.....	423.35	17.33
For Work In Restricted Working Space, Add	13.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 33 13-1898 45 Degree Angle Connector (26 05 33 13-1864)		
26 05 33 13-1899 EA 3/8" 45 Degree Angle Liquid Tight Connector.....	20.44	5.45
For Work In Restricted Working Space, Add	4.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.09	
26 05 33 13-1900 EA 1/2" 45 Degree Angle Liquid Tight Connector.....	20.66	5.45
For Work In Restricted Working Space, Add	4.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.09	
26 05 33 13-1901 EA 3/4" 45 Degree Angle Liquid Tight Connector.....	24.54	5.94
For Work In Restricted Working Space, Add	4.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-1902 EA 1" 45 Degree Angle Liquid Tight Connector.....	37.44	6.93
For Work In Restricted Working Space, Add	5.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 05 33 13-1903 EA 1-1/4" 45 Degree Angle Liquid Tight Connector	42.68	7.43
For Work In Restricted Working Space, Add	5.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-1904 EA 1-1/2" 45 Degree Angle Liquid Tight Connector	47.93	7.93
For Work In Restricted Working Space, Add	5.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-1905 Flexible Metallic Conduit And Connectors (26 05 33 13-1863)		
26 05 33 13-1906 Flexible Steel Conduit (26 05 33 13-1905)		
26 05 33 13-1907 LF 3/8" Flexible Metallic Conduit.....	4.85	1.62
For Flexible Aluminum Conduit, Add	0.15	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.60	
For Installation In Metal Stud Wall, Add	0.40	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.99	
For Work In Restricted Working Space, Add	1.19	
26 05 33 13-1908 LF 1/2" Flexible Metallic Conduit.....	5.02	1.62
For Flexible Aluminum Conduit, Add	0.16	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.61	
For Installation In Metal Stud Wall, Add	0.41	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.02	
For Work In Restricted Working Space, Add	1.22	
26 05 33 13-1909 LF 3/4" Flexible Metallic Conduit.....	5.71	2.17
For Flexible Aluminum Conduit, Add	0.22	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.66	
For Installation In Metal Stud Wall, Add	0.44	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.10	
For Work In Restricted Working Space, Add	1.32	
26 05 33 13-1910 LF 1" Flexible Metallic Conduit.....	7.19	2.17
For Flexible Aluminum Conduit, Add	0.40	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.71	
For Installation In Metal Stud Wall, Add	0.47	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.19	
For Work In Restricted Working Space, Add	1.42	
26 05 33 13-1911 LF 1-1/4" Flexible Metallic Conduit	8.21	2.71
For Flexible Aluminum Conduit, Add	0.53	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.75	
For Installation In Metal Stud Wall, Add	0.50	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.25	
For Work In Restricted Working Space, Add	1.50	
26 05 33 13-1912 LF 1-1/2" Flexible Metallic Conduit	10.83	3.25
For Flexible Aluminum Conduit, Add	0.93	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.78	
For Installation In Metal Stud Wall, Add	0.52	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.31	
For Work In Restricted Working Space, Add	1.57	
26 05 33 13-1913 LF 2" Flexible Metallic Conduit.....	12.30	4.33
For Flexible Aluminum Conduit, Add	1.14	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	0.81	
For Installation In Metal Stud Wall, Add	0.54	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.36	
For Work In Restricted Working Space, Add	1.63	
26 05 33 13-1914 LF 2-1/2" Flexible Steel Conduit	15.09	4.87
For Flexible Aluminum Conduit, Add	1.37	
For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.02	
For Installation In Metal Stud Wall, Add	0.68	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.69	
For Work In Restricted Working Space, Add	2.03	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1915	LF		3" Flexible Metallic Conduit.....	22.58	5.96
			For Flexible Aluminum Conduit, Add	2.39	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.22	
			For Installation In Metal Stud Wall, Add	0.81	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.03	
			For Work In Restricted Working Space, Add	2.44	
26 05 33 13-1916	LF		3-1/2" Flexible Metallic Conduit.....	27.71	6.50
			For Flexible Aluminum Conduit, Add	3.01	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.42	
			For Installation In Metal Stud Wall, Add	0.95	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.37	
			For Work In Restricted Working Space, Add	2.85	
26 05 33 13-1917	LF		4" Flexible Metallic Conduit.....	31.87	7.58
			For Flexible Aluminum Conduit, Add	3.47	
			For Installation In Concrete Beam, Slab, etc. (Excludes Concrete), Add	1.63	
			For Installation In Metal Stud Wall, Add	1.08	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.71	
			For Work In Restricted Working Space, Add	3.25	
26 05 33 13-1918 Plain Squeeze Type Straight Connector (26 05 33 13-1905)					
26 05 33 13-1919	EA		3/8" Flexible Straight Connectors, Plain.....	8.32	4.33
			For Work In Restricted Working Space, Add	1.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.83	
26 05 33 13-1920	EA		1/2" Flexible Straight Connectors, Plain.....	10.29	4.87
			For Work In Restricted Working Space, Add	2.03	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.03	
26 05 33 13-1921	EA		3/4" Flexible Straight Connectors, Plain.....	11.83	5.96
			For Work In Restricted Working Space, Add	2.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1922	EA		1" Flexible Straight Connectors, Plain.....	18.98	6.50
			For Work In Restricted Working Space, Add	3.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-1923	EA		1-1/4" Flexible Straight Connectors, Plain.....	26.88	7.58
			For Work In Restricted Working Space, Add	4.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33 13-1924	EA		1-1/2" Flexible Straight Connectors, Plain.....	35.44	9.22
			For Work In Restricted Working Space, Add	5.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.08	
26 05 33 13-1925	EA		2" Flexible Straight Connectors, Plain.....	46.64	9.22
			For Work In Restricted Working Space, Add	6.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-1926	EA		2-1/2" Flexible Straight Connectors, Plain.....	75.41	11.38
			For Work In Restricted Working Space, Add	7.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-1927	EA		3" Flexible Straight Connectors, Plain.....	98.78	12.47
			For Work In Restricted Working Space, Add	8.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-1928	EA		3-1/2" Flexible Straight Connectors, Plain.....	307.69	14.63
			For Work In Restricted Working Space, Add	9.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 05 33 13-1929	EA		4" Flexible Straight Connectors, Plain.....	384.57	17.88
			For Work In Restricted Working Space, Add	10.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-1930 Insulated Throat Squeeze Type Straight Connector (26 05 33 13-1905)					
26 05 33 13-1931	EA		1/2" Flexible Straight Connectors, Insulated.....	11.50	4.87
			For Work In Restricted Working Space, Add	2.03	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.03	
26 05 33 13-1932	EA		3/4" Flexible Straight Connectors, Insulated.....	13.42	5.96
			For Work In Restricted Working Space, Add	2.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1933	EA		1" Flexible Straight Connectors, Insulated.....	21.15	6.50
			For Work In Restricted Working Space, Add	3.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-1934	EA		1-1/4" Flexible Straight Connectors, Insulated.....	30.86	7.58
			For Work In Restricted Working Space, Add	4.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33 13-1935	EA		1-1/2" Flexible Straight Connectors, Insulated.....	42.51	8.12
			For Work In Restricted Working Space, Add	5.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.08	
26 05 33 13-1936	EA		2" Flexible Straight Connectors, Insulated.....	59.13	9.22
			For Work In Restricted Working Space, Add	6.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-1937	EA		2-1/2" Flexible Straight Connectors, Insulated.....	102.14	11.38
			For Work In Restricted Working Space, Add	7.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-1938	EA		3" Flexible Straight Connectors, Insulated.....	130.29	12.47
			For Work In Restricted Working Space, Add	8.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-1939	EA		3-1/2" Flexible Straight Connectors, Insulated.....	356.27	14.63
			For Work In Restricted Working Space, Add	9.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1940 EA 4" Flexible Straight Connectors, Insulated.....	457.60	17.88
For Work In Restricted Working Space, Add	10.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-1941 Plain Squeeze Type 90 Degree Connector (26 05 33 13-1905)		
26 05 33 13-1942 EA 3/8" Flexible 90 Degree Connector, Plain.....	11.67	5.42
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1943 EA 1/2" Flexible 90 Degree Connector, Plain.....	15.44	5.96
For Work In Restricted Working Space, Add	2.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85	
26 05 33 13-1944 EA 3/4" Flexible 90 Degree Connector, Plain.....	20.15	6.50
For Work In Restricted Working Space, Add	3.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-1945 EA 1" Flexible 90 Degree Connector, Plain.....	28.24	7.58
For Work In Restricted Working Space, Add	4.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33 13-1946 EA 1-1/4" Flexible 90 Degree Connector, Plain.....	44.15	8.12
For Work In Restricted Working Space, Add	4.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-1947 EA 1-1/2" Flexible 90 Degree Connector, Plain.....	69.07	9.49
For Work In Restricted Working Space, Add	6.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-1948 EA 2" Flexible 90 Degree Connector, Plain.....	83.32	11.65
For Work In Restricted Working Space, Add	6.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.91	
26 05 33 13-1949 EA 2-1/2" Flexible 90 Degree Connector, Plain.....	184.24	12.47
For Work In Restricted Working Space, Add	8.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-1950 EA 3" Flexible 90 Degree Connector, Plain.....	236.78	14.63
For Work In Restricted Working Space, Add	9.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 05 33 13-1951 EA 3-1/2" Flexible 90 Degree Connector, Plain.....	503.02	17.88
For Work In Restricted Working Space, Add	10.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-1952 EA 4" Flexible 90 Degree Connector, Plain.....	899.12	20.32
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1953 Insulated Throat Squeeze Type 90 Degree Connector (26 05 33 13-1905)		
26 05 33 13-1954 EA 1/2" Flexible 90 Degree Connector, Insulated.....	17.12	5.96
For Work In Restricted Working Space, Add	2.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85	
26 05 33 13-1955 EA 3/4" Flexible 90 Degree Connector, Insulated.....	22.22	6.50
For Work In Restricted Working Space, Add	3.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-1956 EA 1" Flexible 90 Degree Connector, Insulated.....	28.24	7.58
For Work In Restricted Working Space, Add	4.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33 13-1957 EA 1-1/4" Flexible 90 Degree Connector, Insulated.....	51.53	8.12
For Work In Restricted Working Space, Add	4.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-1958 EA 1-1/2" Flexible 90 Degree Connector, Insulated.....	82.46	9.49
For Work In Restricted Working Space, Add	6.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-1959 EA 2" Flexible 90 Degree Connector, Insulated.....	105.09	11.65
For Work In Restricted Working Space, Add	6.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.91	
26 05 33 13-1960 EA 2-1/2" Flexible 90 Degree Connector, Insulated.....	252.30	12.47
For Work In Restricted Working Space, Add	8.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-1961 EA 3" Flexible 90 Degree Connector, Insulated.....	310.51	14.63
For Work In Restricted Working Space, Add	9.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 05 33 13-1962 EA 3-1/2" Flexible 90 Degree Connector, Insulated.....	837.21	17.88
For Work In Restricted Working Space, Add	10.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-1963 EA 4" Flexible 90 Degree Connector, Insulated.....	1,249.15	20.32
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1964 Plain Squeeze Type 45 Degree Connector (26 05 33 13-1905)		
26 05 33 13-1965 EA 3/8" Flexible 45 Degree Connector, Plain.....	13.03	5.42
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1966 EA 1/2" Flexible 45 Degree Connector, Plain.....	17.61	5.96
For Work In Restricted Working Space, Add	2.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85	
26 05 33 13-1967 EA 3/4" Flexible 45 Degree Connector, Plain.....	22.58	6.50
For Work In Restricted Working Space, Add	3.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-1968	Insulated Squeeze Type 45 Degree Connector (26 05 33 13-1905)				
26 05 33 13-1969	EA 3/8" Flexible 45 Degree Connector, Insulated.....	13.97		6.50	
	For Work In Restricted Working Space, Add.....	2.44			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	2.44			
26 05 33 13-1970	EA 1/2" Flexible 45 Degree Connector, Insulated.....	19.15		5.96	
	For Work In Restricted Working Space, Add.....	2.85			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	2.85			
26 05 33 13-1971	EA 3/4" Flexible 45 Degree Connector, Insulated.....	24.75		6.50	
	For Work In Restricted Working Space, Add.....	3.25			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	3.25			
26 05 33 13-1972	Plain Screw-In Connector (26 05 33 13-1905)				
26 05 33 13-1973	EA 3/8" Flexible Steel Screw-in Connector, Plain.....	6.92		4.33	
	For Work In Restricted Working Space, Add.....	1.83			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	1.83			
26 05 33 13-1974	EA 1/2" Flexible Steel Screw-in Connector, Plain.....	7.45		4.87	
	For Work In Restricted Working Space, Add.....	2.03			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	2.03			
26 05 33 13-1975	EA 3/4" Flexible Steel Screw-in Connector, Plain.....	9.50		5.96	
	For Work In Restricted Working Space, Add.....	2.44			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	2.44			
26 05 33 13-1976	EA 1" Flexible Steel Screw-in Connector, Plain.....	13.62		6.50	
	For Work In Restricted Working Space, Add.....	3.25			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	3.25			
26 05 33 13-1977	EA 1-1/4" Flexible Steel Screw-in Connector, Plain.....	20.05		7.58	
	For Work In Restricted Working Space, Add.....	4.07			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	4.07			
26 05 33 13-1978	EA 1-1/2" Flexible Steel Screw-in Connector, Plain.....	24.50		8.12	
	For Work In Restricted Working Space, Add.....	5.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	5.08			
26 05 33 13-1979	EA 2" Flexible Steel Screw-in Connector, Plain.....	36.04		9.22	
	For Work In Restricted Working Space, Add.....	6.10			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	6.10			
26 05 33 13-1980	Insulated Screw-In Connector (26 05 33 13-1905)				
26 05 33 13-1981	EA 3/8" Flexible Steel Screw-in Connector, Insulated.....	7.32		4.33	
	For Work In Restricted Working Space, Add.....	1.83			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	1.83			
26 05 33 13-1982	EA 1/2" Flexible Steel Screw-in Connector, Insulated.....	7.77		4.87	
	For Work In Restricted Working Space, Add.....	2.03			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	2.03			
26 05 33 13-1983	EA 3/4" Flexible Steel Screw-in Connector, Insulated.....	10.33		5.96	
	For Work In Restricted Working Space, Add.....	2.44			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	2.44			
26 05 33 13-1984	EA 1" Flexible Steel Screw-in Connector, Insulated.....	14.87		6.50	
	For Work In Restricted Working Space, Add.....	3.25			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	3.25			
26 05 33 13-1985	EA 1-1/4" Flexible Steel Screw-in Connector, Insulated.....	21.84		7.58	
	For Work In Restricted Working Space, Add.....	4.07			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	4.07			
26 05 33 13-1986	EA 1-1/2" Flexible Steel Screw-in Connector, Insulated.....	26.65		8.12	
	For Work In Restricted Working Space, Add.....	5.08			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	5.08			
26 05 33 13-1987	EA 2" Flexible Steel Screw-in Connector, Insulated.....	37.93		9.22	
	For Work In Restricted Working Space, Add.....	6.10			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	6.10			
26 05 33 13-1988	Screw-In Coupling (26 05 33 13-1905)				
26 05 33 13-1989	EA 1/2" Flexible Steel Screw-in Coupling.....	8.24		4.87	
	For Work In Restricted Working Space, Add.....	2.03			
26 05 33 13-1990	EA 3/4" Flexible Steel Screw-in Coupling.....	10.80		5.96	
	For Work In Restricted Working Space, Add.....	2.44			
26 05 33 13-1991	Flexible To Electrical Metallic Tubing (EMT) Coupling (26 05 33 13-1905)				
26 05 33 13-1992	EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	11.10		4.33	
	For Work In Restricted Working Space, Add.....	1.83			
26 05 33 13-1993	EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	15.10		4.87	
	For Work In Restricted Working Space, Add.....	2.03			
26 05 33 13-1994	EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	19.97		5.96	
	For Work In Restricted Working Space, Add.....	2.44			
26 05 33 13-1995	Die Cast Squeeze Type Straight Connector (26 05 33 13-1905)				
26 05 33 13-1996	EA 3/8" Flexible Straight Connector, Die Cast.....	7.17		4.33	
	For Work In Restricted Working Space, Add.....	1.83			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	1.83			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1997 EA 1/2" Flexible Straight Connector, Die Cast.....	8.10	4.87
For Work In Restricted Working Space, Add	2.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.03	
26 05 33 13-1998 EA 3/4" Flexible Straight Connector, Die Cast.....	10.06	5.96
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-1999 EA 1" Flexible Straight Connector, Die Cast.....	15.16	6.50
For Work In Restricted Working Space, Add	3.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-2000 EA 1-1/4" Flexible Straight Connector, Die Cast.....	20.43	7.58
For Work In Restricted Working Space, Add	4.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33 13-2001 EA 1-1/2" Flexible Straight Connector, Die Cast.....	27.73	8.12
For Work In Restricted Working Space, Add	5.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.08	
26 05 33 13-2002 EA 2" Flexible Straight Connector, Die Cast.....	35.86	9.22
For Work In Restricted Working Space, Add	6.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-2003 Die Cast Squeeze Type 90 Degree Connector (26 05 33 13-1905)		
26 05 33 13-2004 EA 3/8" Flexible 90 Degree Connector, Die Cast.....	9.48	5.42
For Work In Restricted Working Space, Add	2.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-2005 EA 1/2" Flexible 90 Degree Connector, Die Cast.....	11.78	5.96
For Work In Restricted Working Space, Add	2.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85	
26 05 33 13-2006 EA 3/4" Flexible 90 Degree Connector, Die Cast.....	14.29	6.50
For Work In Restricted Working Space, Add	3.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-2007 EA 1" Flexible 90 Degree Connector, Die Cast.....	22.67	7.58
For Work In Restricted Working Space, Add	4.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33 13-2008 EA 1-1/4" Flexible 90 Degree Connector, Die Cast.....	32.18	8.12
For Work In Restricted Working Space, Add	4.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2009 EA 1-1/2" Flexible 90 Degree Connector, Die Cast.....	50.03	9.49
For Work In Restricted Working Space, Add	6.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-2010 EA 2" Flexible 90 Degree Connector, Die Cast.....	59.83	11.65
For Work In Restricted Working Space, Add	6.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.91	
26 05 33 13-2011 Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-1863)		
26 05 33 13-2012 Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-2011)		
26 05 33 13-2013 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit.....	4.91	1.49
For Work In Restricted Working Space, Add	1.11	
26 05 33 13-2014 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit.....	5.01	1.49
For Work In Restricted Working Space, Add	1.11	
26 05 33 13-2015 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit.....	6.76	1.98
For Work In Restricted Working Space, Add	1.49	
26 05 33 13-2016 LF 1" Flexible Liquid Tight Non-Metallic Conduit.....	8.59	1.98
For Work In Restricted Working Space, Add	1.49	
26 05 33 13-2017 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit.....	10.91	2.48
For Work In Restricted Working Space, Add	1.86	
26 05 33 13-2018 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit.....	14.00	2.97
For Work In Restricted Working Space, Add	2.23	
26 05 33 13-2019 LF 2" Flexible Liquid Tight Non-Metallic Conduit.....	17.90	3.96
For Work In Restricted Working Space, Add	2.97	
26 05 33 13-2020 Liquid Tight Non-Metallic Straight Connector (26 05 33 13-2011)		
26 05 33 13-2021 EA 3/8" Liquid Tight Non-Metallic Straight Connector.....	14.31	3.96
For Work In Restricted Working Space, Add	2.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	
26 05 33 13-2022 EA 1/2" Liquid Tight Non-Metallic Straight Connector.....	14.31	3.96
For Work In Restricted Working Space, Add	2.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	
26 05 33 13-2023 EA 3/4" Liquid Tight Non-Metallic Straight Connector.....	17.67	4.46
For Work In Restricted Working Space, Add	3.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.34	
26 05 33 13-2024 EA 1" Liquid Tight Non-Metallic Straight Connector.....	22.20	4.96
For Work In Restricted Working Space, Add	3.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 33 13-2025 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector.....	31.24	5.45
For Work In Restricted Working Space, Add	4.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.09	
26 05 33 13-2026 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector.....	39.39	5.94
For Work In Restricted Working Space, Add	4.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2027 EA 2" Liquid Tight Non-Metallic Straight Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.31 5.20 5.20	6.93
26 05 33 13-2028 Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-2011)		
26 05 33 13-2029 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.80 4.09 4.09	5.45
26 05 33 13-2030 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.80 4.09 4.09	5.45
26 05 33 13-2031 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.91 4.46 4.46	5.94
26 05 33 13-2032 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.27 5.20 5.20	6.93
26 05 33 13-2033 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.41 5.57 5.57	7.43
26 05 33 13-2034 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.36 5.94 5.94	7.93
26 05 33 13-2035 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.55 6.69 6.69	8.91
26 05 33 13-2036 Liquid Tight Non-Metallic 45 Degree Angle Connector (26 05 33 13-2011)		
26 05 33 13-2037 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.80 4.09 4.09	5.45
26 05 33 13-2038 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.80 4.09 4.09	5.45
26 05 33 13-2039 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.91 4.46 4.46	5.94
26 05 33 13-2040 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.27 5.20 5.20	6.93
26 05 33 13-2041 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.41 5.57 5.57	7.43
26 05 33 13-2042 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.36 5.94 5.94	7.93
26 05 33 13-2043 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.55 6.69 6.69	8.91
26 05 33 13-2044 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-1863) Note: Carlon - FLEX-PLUS.		
26 05 33 13-2045 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2044)		
26 05 33 13-2046 LF 1/2" Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add 26 05 33 13-2047 LF 3/4" Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add 26 05 33 13-2048 LF 1" Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add	5.62 1.22 7.60 1.63 8.94 1.63	1.62 2.17 2.17
26 05 33 13-2049 Terminal Adapter (26 05 33 13-2044)		
26 05 33 13-2050 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.41 3.25 3.25	4.33
26 05 33 13-2051 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.89 3.66 3.66	4.87
26 05 33 13-2052 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.58 4.07 4.07	5.42
26 05 33 13-2053 Coupling (26 05 33 13-2044)		
26 05 33 13-2054 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add 26 05 33 13-2055 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add 26 05 33 13-2056 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add	13.07 3.25 15.10 3.66 17.90 4.07	4.33 4.87 5.42



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2057			Conduit Installed Below Grade (26 05 33 13-0058) Note: By direct burial in trench or in concrete slabs or duct banks. Includes detectable warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
26 05 33 13-2058			Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial (26 05 33 13-2057)		
26 05 33 13-2059			Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial (26 05 33 13-2058) Note: Includes field bend conduit up to and including 1". See CSI section 26 05 33 13-2518 for field bending >1".		
26 05 33 13-2060	LF		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	4.71	
			For Schedule 60, Add	0.43	
			For Schedule 80, Add	0.72	
26 05 33 13-2061	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	5.33	
			For Schedule 60, Add	0.53	
			For Schedule 80, Add	0.86	
26 05 33 13-2062	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.27	
			For Schedule 60, Add	0.71	
			For Schedule 80, Add	1.12	
26 05 33 13-2063	LF		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.22	
			For Schedule 60, Add	0.89	
			For Schedule 80, Add	1.38	
26 05 33 13-2064	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	8.02	
			For Schedule 60, Add	1.03	
			For Schedule 80, Add	1.59	
26 05 33 13-2065	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	9.31	
			For Schedule 60, Add	1.30	
			For Schedule 80, Add	1.97	
26 05 33 13-2066	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	12.06	
			For Schedule 60, Add	1.93	
			For Schedule 80, Add	2.86	
26 05 33 13-2067	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	13.62	
			For Schedule 60, Add	2.26	
			For Schedule 80, Add	3.33	
26 05 33 13-2068	LF		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	16.11	
			For Schedule 60, Add	2.82	
			For Schedule 80, Add	4.13	
26 05 33 13-2069	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	17.38	
			For Schedule 60, Add	3.09	
			For Schedule 80, Add	4.51	
26 05 33 13-2070	LF		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	22.76	
			For Schedule 60, Add	4.37	
			For Schedule 80, Add	6.32	
26 05 33 13-2071	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	28.22	
			For Schedule 60, Add	5.68	
			For Schedule 80, Add	8.16	
26 05 33 13-2072			Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial (26 05 33 13-2058) See CSI section 26 05 33 13-2518 for conduit field bending.		
26 05 33 13-2073	EA		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	30.04	
			For Schedule 60, Add	1.78	
			For Schedule 80, Add	3.35	
26 05 33 13-2074	EA		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	36.06	
			For Schedule 60, Add	2.14	
			For Schedule 80, Add	4.02	
26 05 33 13-2075	EA		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	42.71	
			For Schedule 60, Add	2.65	
			For Schedule 80, Add	4.92	
26 05 33 13-2076	EA		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	49.59	
			For Schedule 60, Add	3.22	
			For Schedule 80, Add	5.89	
26 05 33 13-2077	EA		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	56.65	
			For Schedule 60, Add	3.84	
			For Schedule 80, Add	6.93	
26 05 33 13-2078	EA		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	64.35	
			For Schedule 60, Add	4.62	
			For Schedule 80, Add	8.19	
26 05 33 13-2079	EA		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	75.39	
			For Schedule 60, Add	6.23	
			For Schedule 80, Add	10.62	
26 05 33 13-2080	EA		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	88.86	
			For Schedule 60, Add	8.46	
			For Schedule 80, Add	13.90	
26 05 33 13-2081	EA		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	108.12	
			For Schedule 60, Add	10.98	
			For Schedule 80, Add	17.77	
26 05 33 13-2082	EA		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	127.57	
			For Schedule 60, Add	13.54	
			For Schedule 80, Add	21.71	
26 05 33 13-2083	EA		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	166.52	
			For Schedule 60, Add	20.99	
			For Schedule 80, Add	32.48	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2084 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	195.37 25.91 39.71	
26 05 33 13-2085 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial (26 05 33 13-2058) See CSI section 26 05 33 13-2518 for conduit field bending.		
26 05 33 13-2086 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	30.04 1.78 3.35	
26 05 33 13-2087 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	35.96 2.11 3.99	
26 05 33 13-2088 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	42.58 2.62 4.87	
26 05 33 13-2089 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	49.20 3.13 5.75	
26 05 33 13-2090 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	55.77 3.62 6.62	
26 05 33 13-2091 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	63.88 4.50 8.03	
26 05 33 13-2092 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	74.51 6.01 10.31	
26 05 33 13-2093 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	87.74 8.18 13.51	
26 05 33 13-2094 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	104.98 10.19 16.68	
26 05 33 13-2095 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	124.87 12.87 20.77	
26 05 33 13-2096 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	163.02 20.12 31.26	
26 05 33 13-2097 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial For Schedule 60, Add For Schedule 80, Add	184.95 23.30 36.07	
26 05 33 13-2098 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial (26 05 33 13-2058)		
26 05 33 13-2099 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.69 4.82	
26 05 33 13-2100 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.20 5.50	
26 05 33 13-2101 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.83 6.19	
26 05 33 13-2102 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.56 6.88	
26 05 33 13-2103 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.02 7.57	
26 05 33 13-2104 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.08 8.26	
26 05 33 13-2105 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.63 9.29	
26 05 33 13-2106 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.74 10.32	
26 05 33 13-2107 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.17 12.04	
26 05 33 13-2108 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.29 13.76	
26 05 33 13-2109 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.66 15.48	
26 05 33 13-2110 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.93 17.20	
26 05 33 13-2111 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial (26 05 33 13-2058)		
26 05 33 13-2112 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	18.87	
26 05 33 13-2113 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	21.54	
26 05 33 13-2114 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	24.23	
26 05 33 13-2115 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	31.01	
26 05 33 13-2116 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	34.32	
26 05 33 13-2117 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	38.36	
26 05 33 13-2118 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	42.96	
26 05 33 13-2119 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	48.71	
26 05 33 13-2120 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	57.63	



Electrical		26
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Raceway and Boxes for Electrical Systems		26 05 33

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2121	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	63.79	
26 05 33 13-2122	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	80.21	
26 05 33 13-2123	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	90.22	
26 05 33 13-2124 Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial (26 05 33 13-2058)				
26 05 33 13-2125	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	16.59	
26 05 33 13-2126	EA	3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	19.20	
26 05 33 13-2127	EA	1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	21.69	
26 05 33 13-2128	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	24.32	
26 05 33 13-2129	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	26.80	
26 05 33 13-2130	EA	2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	29.78	
26 05 33 13-2131	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	35.03	
26 05 33 13-2132	EA	3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	39.91	
26 05 33 13-2133	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	47.10	
26 05 33 13-2134	EA	4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	53.20	
26 05 33 13-2135	EA	5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	66.50	
26 05 33 13-2136	EA	6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	75.34	
26 05 33 13-2137 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-2057)				
Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).				
26 05 33 13-2138 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-2137)				
Note: Includes field bending for conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".				
26 05 33 13-2139	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	12.22	2.60
		For >250 To 500, Deduct	-0.44	
		For >500 To 1,000, Deduct	-0.75	
		For >1,000, Deduct	-1.05	
26 05 33 13-2140	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	13.69	3.22
		For >250 To 500, Deduct	-0.50	
		For >500 To 1,000, Deduct	-0.84	
		For >1,000, Deduct	-1.18	
26 05 33 13-2141	LF	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	16.78	3.59
		For >250 To 500, Deduct	-0.62	
		For >500 To 1,000, Deduct	-1.04	
		For >1,000, Deduct	-1.46	
26 05 33 13-2142	LF	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	20.18	4.83
		For >250 To 500, Deduct	-0.76	
		For >500 To 1,000, Deduct	-1.27	
		For >1,000, Deduct	-1.77	
26 05 33 13-2143	LF	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	23.64	5.45
		For >250 To 500, Deduct	-0.90	
		For >500 To 1,000, Deduct	-1.49	
		For >1,000, Deduct	-2.09	
26 05 33 13-2144	LF	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	29.91	5.94
		For >250 To 500, Deduct	-1.16	
		For >500 To 1,000, Deduct	-1.90	
		For >1,000, Deduct	-2.65	
26 05 33 13-2145	LF	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	43.27	8.91
		For >250 To 500, Deduct	-1.70	
		For >500 To 1,000, Deduct	-2.78	
		For >1,000, Deduct	-3.86	
26 05 33 13-2146	LF	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	55.91	11.14
		For >250 To 500, Deduct	-2.18	
		For >500 To 1,000, Deduct	-3.57	
		For >1,000, Deduct	-4.97	
26 05 33 13-2147	LF	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	69.05	11.76
		For >250 To 500, Deduct	-2.68	
		For >500 To 1,000, Deduct	-4.41	
		For >1,000, Deduct	-6.13	
26 05 33 13-2148	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	82.06	12.99
		For >250 To 500, Deduct	-3.17	
		For >500 To 1,000, Deduct	-5.23	
		For >1,000, Deduct	-7.28	
26 05 33 13-2149	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	126.65	17.95
		For >250 To 500, Deduct	-5.16	
		For >500 To 1,000, Deduct	-8.32	
		For >1,000, Deduct	-11.49	
26 05 33 13-2150	LF	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	168.51	23.52
		For >250 To 500, Deduct	-6.94	
		For >500 To 1,000, Deduct	-11.15	
		For >1,000, Deduct	-15.37	
26 05 33 13-2151 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2152	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	13.14	3.71
26 05 33 13-2153	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	15.88	4.96

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2154	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	20.14	6.19
26 05 33 13-2155	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	22.68	6.81
26 05 33 13-2156	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	26.86	8.05
26 05 33 13-2157	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	34.33	9.28
26 05 33 13-2158	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	61.30	11.14
26 05 33 13-2159	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	78.33	15.47
26 05 33 13-2160	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	96.67	17.95
26 05 33 13-2161	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	120.59	24.76
26 05 33 13-2162	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	299.63	34.05
26 05 33 13-2163	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	297.02	19.19
26 05 33 13-2164 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-2137)				
Note: 90, 45, or 30-degree.				
26 05 33 13-2165	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	50.96	15.47
26 05 33 13-2166	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	59.15	19.19
26 05 33 13-2167	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	70.86	23.52
26 05 33 13-2168	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	83.76	27.23
26 05 33 13-2169	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	97.88	30.95
26 05 33 13-2170	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	118.30	34.05
26 05 33 13-2171	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	180.02	42.72
26 05 33 13-2172	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	267.55	58.19
26 05 33 13-2173	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	329.59	65.61
26 05 33 13-2174	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	380.52	85.42
26 05 33 13-2175	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	783.85	139.27
26 05 33 13-2176	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	1,230.66	209.22
26 05 33 13-2177 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2178	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	118.03	23.52
26 05 33 13-2179	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	133.00	27.23
26 05 33 13-2180	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	151.79	30.95
26 05 33 13-2181	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	180.51	34.05
26 05 33 13-2182	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	250.43	42.72
26 05 33 13-2183 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2184	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	130.78	23.52
26 05 33 13-2185	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	154.07	27.23
26 05 33 13-2186	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	166.90	30.95
26 05 33 13-2187	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	213.46	34.05
26 05 33 13-2188	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	282.21	42.72
26 05 33 13-2189	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	361.78	58.19
26 05 33 13-2190 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2191	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	146.03	23.52
26 05 33 13-2192	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	165.05	27.23
26 05 33 13-2193	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	186.29	30.95
26 05 33 13-2194	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	224.39	34.05



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2195	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	318.72	42.72
26 05 33 13-2196	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	404.65	58.19
26 05 33 13-2197	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	509.11	65.61
26 05 33 13-2198	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	576.10	85.42
26 05 33 13-2199		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2200	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	172.38	23.52
26 05 33 13-2201	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	190.82	27.23
26 05 33 13-2202	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	215.54	30.95
26 05 33 13-2203	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	266.52	34.05
26 05 33 13-2204	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	384.06	42.72
26 05 33 13-2205	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	477.28	58.19
26 05 33 13-2206	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	553.45	65.61
26 05 33 13-2207	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	657.51	85.42
26 05 33 13-2208		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2209	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	192.87	23.52
26 05 33 13-2210	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	214.80	27.23
26 05 33 13-2211	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	244.34	30.95
26 05 33 13-2212	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	303.19	34.05
26 05 33 13-2213	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	419.72	42.72
26 05 33 13-2214	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	535.37	58.19
26 05 33 13-2215	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	661.27	65.61
26 05 33 13-2216	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	732.24	85.42
26 05 33 13-2217	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,220.12	139.27
26 05 33 13-2218		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2219	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	219.68	23.52
26 05 33 13-2220	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	243.78	27.23
26 05 33 13-2221	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	275.90	30.95
26 05 33 13-2222	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	343.86	34.05
26 05 33 13-2223	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	479.13	42.72
26 05 33 13-2224	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	609.38	58.19
26 05 33 13-2225	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	715.30	65.61
26 05 33 13-2226	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	828.72	85.42
26 05 33 13-2227	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,287.73	139.27
26 05 33 13-2228	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,764.91	209.22
26 05 33 13-2229		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2230	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	257.00	23.52
26 05 33 13-2231	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	269.61	27.23

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2232	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	318.14	30.95
26 05 33 13-2233	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	400.47	34.05
26 05 33 13-2234	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	559.24	42.72
26 05 33 13-2235	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	709.16	58.19
26 05 33 13-2236	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	865.50	65.61
26 05 33 13-2237	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,016.40	85.42
26 05 33 13-2238	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,508.27	139.27
26 05 33 13-2239	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,866.15	209.22
26 05 33 13-2240 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2241	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	265.99	23.52
26 05 33 13-2242	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	313.31	27.23
26 05 33 13-2243	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	354.67	30.95
26 05 33 13-2244	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	417.50	34.05
26 05 33 13-2245	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	579.25	42.72
26 05 33 13-2246	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	739.85	58.19
26 05 33 13-2247	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	947.30	65.61
26 05 33 13-2248	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,058.96	85.42
26 05 33 13-2249	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,567.52	139.27
26 05 33 13-2250	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,917.58	209.22
26 05 33 13-2251 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2252	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	90.59	15.47
26 05 33 13-2253	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	99.11	19.19
26 05 33 13-2254	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	128.45	23.52
26 05 33 13-2255	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	185.50	27.23
26 05 33 13-2256	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	219.93	30.95
26 05 33 13-2257	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	278.69	34.05
26 05 33 13-2258	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	370.55	42.72
26 05 33 13-2259	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	478.50	42.72
26 05 33 13-2260	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	618.83	65.61
26 05 33 13-2261	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	796.92	85.42
26 05 33 13-2262	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,448.77	139.27
26 05 33 13-2263	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,812.17	209.22
26 05 33 13-2264 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2265	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	92.60	15.47
26 05 33 13-2266	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	106.78	19.19
26 05 33 13-2267	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	132.54	23.52
26 05 33 13-2268	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	193.01	27.23
26 05 33 13-2269	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	230.36	30.95



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2270	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	301.20	34.05
26 05 33 13-2271	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	418.70	42.72
26 05 33 13-2272	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	527.47	42.72
26 05 33 13-2273	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	707.35	65.61
26 05 33 13-2274	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	885.12	85.42
26 05 33 13-2275	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,610.45	139.27
26 05 33 13-2276	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,073.24	209.22
26 05 33 13-2277 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2278	EA	1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	31.77	7.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-2279	EA	3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	35.81	9.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.57	
26 05 33 13-2280	EA	1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	41.71	11.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.06	
26 05 33 13-2281	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.60	13.62
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.17	
26 05 33 13-2282	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	54.05	15.47
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.29	
26 05 33 13-2283	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	35.18	8.05
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.83	
26 05 33 13-2284	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.12	9.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.57	
26 05 33 13-2285	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	44.04	11.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.06	
26 05 33 13-2286	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	52.07	13.62
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.17	
26 05 33 13-2287	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	56.72	15.47
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.29	
26 05 33 13-2288	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	61.59	17.33
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33 13-2289	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	35.34	8.05
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.83	
26 05 33 13-2290	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.28	9.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.57	
26 05 33 13-2291	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	44.34	11.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.06	
26 05 33 13-2292	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	52.39	13.62
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.17	
26 05 33 13-2293	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	57.04	15.47
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.29	
26 05 33 13-2294	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	62.41	17.33
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33 13-2295	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.53	8.05
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.83	
26 05 33 13-2296	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.48	9.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.57	
26 05 33 13-2297	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	46.70	11.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.06	
26 05 33 13-2298	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	53.73	13.62
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.17	
26 05 33 13-2299	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	58.52	15.47
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.29	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2300 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	65.00	17.33
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-2301 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	90.25	21.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	
26 05 33 13-2302 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	117.10	29.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33 13-2303 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.70	8.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-2304 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.78	9.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-2305 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.02	11.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-2306 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.07	13.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-2307 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.00	15.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-2308 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	67.59	17.33
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-2309 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	92.53	21.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	
26 05 33 13-2310 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	122.03	29.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33 13-2311 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	145.24	32.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68	
26 05 33 13-2312 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	170.61	42.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62	
26 05 33 13-2313 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.00	8.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-2314 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.10	9.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-2315 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.37	11.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-2316 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.70	13.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	
26 05 33 13-2317 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.64	15.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-2318 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	69.00	17.33
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-2319 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	101.64	21.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63	
26 05 33 13-2320 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	129.40	29.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45	
26 05 33 13-2321 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	146.81	32.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68	
26 05 33 13-2322 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	174.81	42.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62	
26 05 33 13-2323 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	256.66	58.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.28	
26 05 33 13-2324 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.57	8.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-2325 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.68	9.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-2326 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.99	11.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-2327 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.85	13.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17	



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 05 33 13-2328	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	62.03	15.47	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29		
26 05 33 13-2329	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	70.41	17.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40		
26 05 33 13-2330	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	110.88	21.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63		
26 05 33 13-2331	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	139.20	29.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45		
26 05 33 13-2332	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	155.64	32.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68		
26 05 33 13-2333	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	189.69	42.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62		
26 05 33 13-2334	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	278.91	58.80	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.28		
26 05 33 13-2335	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.47	8.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83		
26 05 33 13-2336	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.56	9.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57		
26 05 33 13-2337	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.38	11.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06		
26 05 33 13-2338	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.15	13.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17		
26 05 33 13-2339	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.85	15.47	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29		
26 05 33 13-2340	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	77.29	17.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40		
26 05 33 13-2341	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	122.25	21.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63		
26 05 33 13-2342	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	152.60	29.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45		
26 05 33 13-2343	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	177.73	32.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68		
26 05 33 13-2344	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	212.04	42.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62		
26 05 33 13-2345	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	294.17	58.80	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.28		
26 05 33 13-2346	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.42	8.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83		
26 05 33 13-2347	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.48	9.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57		
26 05 33 13-2348	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.74	11.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06		
26 05 33 13-2349	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.31	13.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17		
26 05 33 13-2350	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	71.55	15.47	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29		
26 05 33 13-2351	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	87.41	17.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40		
26 05 33 13-2352	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	134.27	21.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.63		
26 05 33 13-2353	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	169.77	29.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.45		
26 05 33 13-2354	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	200.93	32.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.68		
26 05 33 13-2355	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	251.14	42.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.62		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2356	EA	5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	324.60	58.80
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.28	
26 05 33 13-2357	EA	1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.39	8.05
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.83	
26 05 33 13-2358	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.57	9.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.57	
26 05 33 13-2359	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.21	11.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.06	
26 05 33 13-2360	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	68.15	13.62
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.17	
26 05 33 13-2361	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	79.66	15.47
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.29	
26 05 33 13-2362	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	95.55	17.33
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33 13-2363	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	150.30	21.04
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.63	
26 05 33 13-2364	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	195.51	29.09
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.45	
26 05 33 13-2365	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	215.16	32.81
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.68	
26 05 33 13-2366	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	263.13	42.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.62	
26 05 33 13-2367	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	328.94	58.80
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.28	
26 05 33 13-2368		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-2057) Note: Direct burial or encased application.		
26 05 33 13-2369		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-2368) Note: Includes field bending for conduit up to and including 1". See CSI section 26 05 33 13-2518 for field bending >1".		
26 05 33 13-2370	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.23	1.49
		<i>For Work In Restricted Working Space, Add</i>	1.12	
26 05 33 13-2371	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.08	1.60
		<i>For Work In Restricted Working Space, Add</i>	1.20	
26 05 33 13-2372	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.66	1.72
		<i>For Work In Restricted Working Space, Add</i>	1.29	
26 05 33 13-2373	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.25	1.83
		<i>For Work In Restricted Working Space, Add</i>	1.38	
26 05 33 13-2374	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.99	1.94
		<i>For Work In Restricted Working Space, Add</i>	1.46	
26 05 33 13-2375	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	11.44	2.06
		<i>For Work In Restricted Working Space, Add</i>	1.55	
26 05 33 13-2376	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	12.96	2.18
		<i>For Work In Restricted Working Space, Add</i>	1.63	
26 05 33 13-2377	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	14.76	2.30
		<i>For Work In Restricted Working Space, Add</i>	1.72	
26 05 33 13-2378	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	16.17	2.41
		<i>For Work In Restricted Working Space, Add</i>	1.81	
26 05 33 13-2379	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	17.58	2.53
		<i>For Work In Restricted Working Space, Add</i>	1.89	
26 05 33 13-2380	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	20.69	2.64
		<i>For Work In Restricted Working Space, Add</i>	1.98	
26 05 33 13-2381	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	24.51	2.76
		<i>For Work In Restricted Working Space, Add</i>	2.06	
26 05 33 13-2382		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-2368)		
26 05 33 13-2383	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	111.95	11.47
		<i>For Work In Restricted Working Space, Add</i>	8.60	
		<i>For 24" Radius, Add</i>	7.68	
		<i>For 36" Radius, Add</i>	11.20	
		<i>For 48" Radius, Add</i>	14.71	
26 05 33 13-2384	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	127.63	13.76
		<i>For Work In Restricted Working Space, Add</i>	10.32	
		<i>For 24" Radius, Add</i>	8.71	
		<i>For 36" Radius, Add</i>	12.76	
		<i>For 48" Radius, Add</i>	16.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2385	EA	1"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	134.31	16.06
			For Work In Restricted Working Space, Add	12.04	
			For 24" Radius, Add	9.07	
			For 36" Radius, Add	13.43	
			For 48" Radius, Add	17.79	
26 05 33 13-2386	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	140.97	18.34
			For Work In Restricted Working Space, Add	13.76	
			For 24" Radius, Add	9.43	
			For 36" Radius, Add	14.10	
			For 48" Radius, Add	18.77	
26 05 33 13-2387	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	147.64	20.64
			For Work In Restricted Working Space, Add	15.48	
			For 24" Radius, Add	9.78	
			For 36" Radius, Add	14.76	
			For 48" Radius, Add	19.75	
26 05 33 13-2388	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	166.62	22.93
			For Work In Restricted Working Space, Add	17.20	
			For 24" Radius, Add	11.06	
			For 36" Radius, Add	16.66	
			For 48" Radius, Add	22.26	
26 05 33 13-2389	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	193.88	25.23
			For Work In Restricted Working Space, Add	18.92	
			For 24" Radius, Add	12.96	
			For 36" Radius, Add	19.39	
			For 48" Radius, Add	25.81	
26 05 33 13-2390	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	225.77	27.52
			For Work In Restricted Working Space, Add	20.64	
			For 24" Radius, Add	15.21	
			For 36" Radius, Add	22.58	
			For 48" Radius, Add	29.94	
26 05 33 13-2391	EA	3-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	256.86	32.11
			For Work In Restricted Working Space, Add	24.08	
			For 24" Radius, Add	17.26	
			For 36" Radius, Add	25.69	
			For 48" Radius, Add	34.11	
26 05 33 13-2392	EA	4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	287.95	41.28
			For Work In Restricted Working Space, Add	27.52	
			For 24" Radius, Add	19.30	
			For 36" Radius, Add	28.80	
			For 48" Radius, Add	38.29	
26 05 33 13-2393	EA	5"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	348.47	41.28
			For Work In Restricted Working Space, Add	30.96	
			For 24" Radius, Add	23.56	
			For 36" Radius, Add	34.85	
			For 48" Radius, Add	46.14	
26 05 33 13-2394	EA	6"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	421.25	45.87
			For Work In Restricted Working Space, Add	34.40	
			For 24" Radius, Add	28.73	
			For 36" Radius, Add	42.13	
			For 48" Radius, Add	55.52	
26 05 33 13-2395			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-2388)		
26 05 33 13-2396	EA	1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	50.54	6.43
			For Work In Restricted Working Space, Add	4.82	
26 05 33 13-2397	EA	3/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	56.76	7.34
			For Work In Restricted Working Space, Add	5.50	
26 05 33 13-2398	EA	1"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	59.46	8.26
			For Work In Restricted Working Space, Add	6.19	
26 05 33 13-2399	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	62.07	9.17
			For Work In Restricted Working Space, Add	6.88	
26 05 33 13-2400	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	65.16	10.09
			For Work In Restricted Working Space, Add	7.57	
26 05 33 13-2401	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	75.07	11.01
			For Work In Restricted Working Space, Add	8.26	
26 05 33 13-2402	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	88.19	12.39
			For Work In Restricted Working Space, Add	9.29	
26 05 33 13-2403	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	103.07	13.76
			For Work In Restricted Working Space, Add	10.32	
26 05 33 13-2404	EA	3-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	117.39	16.06
			For Work In Restricted Working Space, Add	12.04	
26 05 33 13-2405	EA	4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	131.72	18.34
			For Work In Restricted Working Space, Add	13.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2406 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	158.90	20.64
<i>For Work In Restricted Working Space, Add</i>	15.48	
26 05 33 13-2407 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	191.41	22.93
<i>For Work In Restricted Working Space, Add</i>	17.20	
26 05 33 13-2408 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-2368)		
26 05 33 13-2409 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	35.51	6.43
<i>For Work In Restricted Working Space, Add</i>	4.82	
26 05 33 13-2410 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	39.96	7.34
<i>For Work In Restricted Working Space, Add</i>	5.50	
26 05 33 13-2411 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	42.49	8.26
<i>For Work In Restricted Working Space, Add</i>	6.19	
26 05 33 13-2412 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	45.01	9.17
<i>For Work In Restricted Working Space, Add</i>	6.88	
26 05 33 13-2413 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	47.53	10.09
<i>For Work In Restricted Working Space, Add</i>	7.57	
26 05 33 13-2414 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	49.95	11.01
<i>For Work In Restricted Working Space, Add</i>	8.26	
26 05 33 13-2415 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	57.88	12.39
<i>For Work In Restricted Working Space, Add</i>	9.29	
26 05 33 13-2416 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	66.71	13.76
<i>For Work In Restricted Working Space, Add</i>	10.32	
26 05 33 13-2417 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	76.48	16.06
<i>For Work In Restricted Working Space, Add</i>	12.04	
26 05 33 13-2418 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	86.26	18.34
<i>For Work In Restricted Working Space, Add</i>	13.76	
26 05 33 13-2419 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	102.13	20.64
<i>For Work In Restricted Working Space, Add</i>	15.48	
26 05 33 13-2420 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	120.44	22.93
<i>For Work In Restricted Working Space, Add</i>	17.20	
26 05 33 13-2421 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-2368)		
26 05 33 13-2422 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	33.35	3.67
<i>For Work In Restricted Working Space, Add</i>	2.75	
26 05 33 13-2423 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	37.20	4.13
<i>For Work In Restricted Working Space, Add</i>	3.10	
26 05 33 13-2424 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	38.65	4.59
<i>For Work In Restricted Working Space, Add</i>	3.44	
26 05 33 13-2425 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	39.95	5.04
<i>For Work In Restricted Working Space, Add</i>	3.78	
26 05 33 13-2426 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	41.72	5.50
<i>For Work In Restricted Working Space, Add</i>	4.13	
26 05 33 13-2427 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	49.35	6.43
<i>For Work In Restricted Working Space, Add</i>	4.82	
26 05 33 13-2428 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	59.43	7.80
<i>For Work In Restricted Working Space, Add</i>	5.85	
26 05 33 13-2429 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	70.84	9.17
<i>For Work In Restricted Working Space, Add</i>	6.88	
26 05 33 13-2430 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	82.56	11.47
<i>For Work In Restricted Working Space, Add</i>	8.60	
26 05 33 13-2431 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	94.28	13.76
<i>For Work In Restricted Working Space, Add</i>	10.32	
26 05 33 13-2432 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	114.95	16.06
<i>For Work In Restricted Working Space, Add</i>	12.04	
26 05 33 13-2433 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	139.43	18.34
<i>For Work In Restricted Working Space, Add</i>	13.76	
26 05 33 13-2434 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-2368)		
26 05 33 13-2435 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	83.98	22.93
<i>For Work In Restricted Working Space, Add</i>	17.20	
26 05 33 13-2436 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	98.36	27.52
<i>For Work In Restricted Working Space, Add</i>	20.64	
26 05 33 13-2437 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	110.16	32.11
<i>For Work In Restricted Working Space, Add</i>	24.08	
26 05 33 13-2438 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	121.83	36.70
<i>For Work In Restricted Working Space, Add</i>	27.52	
26 05 33 13-2439 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	128.24	38.99
<i>For Work In Restricted Working Space, Add</i>	29.24	
26 05 33 13-2440 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	139.83	41.28
<i>For Work In Restricted Working Space, Add</i>	30.96	
26 05 33 13-2441 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	152.89	43.57
<i>For Work In Restricted Working Space, Add</i>	32.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2442 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	167.42 34.40	45.87
26 05 33 13-2443 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	179.74 36.12	48.16
26 05 33 13-2444 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	192.07 37.84	50.46
26 05 33 13-2445 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	214.28 39.56	52.74
26 05 33 13-2446 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	240.61 41.28	55.04
26 05 33 13-2447 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-2368)		
26 05 33 13-2448 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	94.80 17.20	22.93
26 05 33 13-2449 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	110.50 20.64	27.52
26 05 33 13-2450 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	122.36 24.08	32.11
26 05 33 13-2451 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	134.15 27.52	36.70
26 05 33 13-2452 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	140.67 29.24	38.99
26 05 33 13-2453 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	154.02 30.96	41.28
26 05 33 13-2454 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	169.93 32.68	43.57
26 05 33 13-2455 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	187.86 34.40	45.87
26 05 33 13-2456 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	202.74 36.12	48.16
26 05 33 13-2457 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	217.64 37.84	50.46
26 05 33 13-2458 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	246.33 39.56	52.74
26 05 33 13-2459 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	280.67 41.28	55.04
26 05 33 13-2460 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-2368)		
26 05 33 13-2461 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	105.17 4.82	6.43
26 05 33 13-2462 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	117.33 5.50	7.34
26 05 33 13-2463 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	122.67 6.19	8.26
26 05 33 13-2464 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	128.13 6.88	9.17
26 05 33 13-2465 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	132.07 7.57	10.09
26 05 33 13-2466 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	144.53 8.26	11.01
26 05 33 13-2467 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	171.38 9.29	12.39
26 05 33 13-2468 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	202.82 10.32	13.76
26 05 33 13-2469 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	229.61 12.04	16.06
26 05 33 13-2470 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	256.41 13.76	18.34
26 05 33 13-2471 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	314.85 15.48	20.64
26 05 33 13-2472 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	384.35 17.20	22.93
26 05 33 13-2473 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-2368)		
26 05 33 13-2474 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	113.63 17.20	22.93
26 05 33 13-2475 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	131.36 20.64	27.52
26 05 33 13-2476 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	157.55 24.08	32.11
26 05 33 13-2477 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	195.94 27.52	36.70

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2478 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 240.31		38.99
For Work In Restricted Working Space, Add 29.24		
26 05 33 13-2479 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 314.89		41.28
For Work In Restricted Working Space, Add 30.96		
26 05 33 13-2480 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 442.05		43.57
For Work In Restricted Working Space, Add 32.68		
26 05 33 13-2481 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 527.72		45.87
For Work In Restricted Working Space, Add 34.40		
26 05 33 13-2482 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 628.39		48.16
For Work In Restricted Working Space, Add 36.12		
26 05 33 13-2483 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 729.07		50.46
For Work In Restricted Working Space, Add 37.84		
26 05 33 13-2484 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 848.05		52.74
For Work In Restricted Working Space, Add 39.56		
26 05 33 13-2485 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 1,353.44		55.04
For Work In Restricted Working Space, Add 41.28		
26 05 33 13-2486 Spacers (26 05 33 13-2057)		
Note: For concrete encasement applications. See CSI section 03 30 53 00-0001 for concrete., 26 05 33 13-2057 for conduit.		
26 05 33 13-2487 EA 1" Base Spacers, Average 4" Wide, Direct Burial 12.14		
26 05 33 13-2488 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial 13.04		
26 05 33 13-2489 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial 14.44		
26 05 33 13-2490 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial 15.54		
26 05 33 13-2491 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial 14.57		
26 05 33 13-2492 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial 15.63		
26 05 33 13-2493 EA 2" Base Spacer, Average 4" Wide, Direct Burial 18.08		
26 05 33 13-2494 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial 16.79		
26 05 33 13-2495 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial 19.98		
26 05 33 13-2496 EA 2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial 19.32		
26 05 33 13-2497 EA 3" Base Spacer, Average 4" Wide, Direct Burial 22.85		
26 05 33 13-2498 EA 3" Intermediate Spacers, Average 4" Wide, Direct Burial 21.83		
26 05 33 13-2499 EA 3-1/2" Base Spacer, Average 4" Wide, Direct Burial 24.76		
26 05 33 13-2500 EA 3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial 23.69		
26 05 33 13-2501 EA 4" Base Spacer, Average 4" Wide, Direct Burial 25.52		
26 05 33 13-2502 EA 4" Intermediate Spacers, Average 4" Wide, Direct Burial 24.34		
26 05 33 13-2503 EA 5" Base Spacer, Average 4" Wide, Direct Burial 28.22		
26 05 33 13-2504 EA 5" Intermediate Spacers, Average 4" Wide, Direct Burial 26.83		
26 05 33 13-2505 EA 6" Base Spacer, Average 4" Wide, Direct Burial 31.85		
26 05 33 13-2506 EA 6" Intermediate Spacers, Average 4" Wide, Direct Burial 30.68		
26 05 33 13-2507 Conduit Field Bending (26 05 33 13-0058)		
Note: Conduit tasks by LF include field bending up to and include 1" conduit.		
26 05 33 13-2508 Metallic Conduit Field Bending (26 05 33 13-2507)		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), and Intermediate Metal Conduit (IMC).		
26 05 33 13-2509 EA 1-1/4" Metallic Conduit Field Bending 22.22		
For Aluminum Conduit Bending, Add 14.67		
26 05 33 13-2510 EA 1-1/2" Metallic Conduit Field Bending 27.77		
For Aluminum Conduit Bending, Add 18.33		
26 05 33 13-2511 EA 2" Metallic Conduit Field Bending 34.72		
For Aluminum Conduit Bending, Add 22.92		
26 05 33 13-2512 EA 2-1/2" Metallic Conduit Field Bending 48.61		
For Aluminum Conduit Bending, Add 32.08		
26 05 33 13-2513 EA 3" Metallic Conduit Field Bending 62.50		
For Aluminum Conduit Bending, Add 41.25		
26 05 33 13-2514 EA 3-1/2" Metallic Conduit Field Bending 83.32		
For Aluminum Conduit Bending, Add 54.99		
26 05 33 13-2515 EA 4" Metallic Conduit Field Bending 97.21		
For Aluminum Conduit Bending, Add 64.16		
26 05 33 13-2516 EA 5" Metallic Conduit Field Bending 111.09		
For Aluminum Conduit Bending, Add 73.32		
26 05 33 13-2517 EA 6" Metallic Conduit Field Bending 131.93		
For Aluminum Conduit Bending, Add 87.07		
26 05 33 13-2518 Plastic Conduit Field Bending (26 05 33 13-2507)		
Note: For PVC conduits.		
26 05 33 13-2519 EA 1" Plastic Conduit Field Bending 31.94		
26 05 33 13-2520 EA 1-1/4" Plastic Conduit Field Bending 34.72		
26 05 33 13-2521 EA 1-1/2" Plastic Conduit Field Bending 41.66		
26 05 33 13-2522 EA 2" Plastic Conduit Field Bending 55.55		
26 05 33 13-2523 EA 2-1/2" Plastic Conduit Field Bending 69.43		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2524 EA 3" Plastic Conduit Field Bending.....	83.32	
26 05 33 13-2525 EA 3-1/2" Plastic Conduit Field Bending.....	97.21	
26 05 33 13-2526 EA 4" Plastic Conduit Field Bending.....	111.09	
26 05 33 13-2527 EA 5" Plastic Conduit Field Bending.....	124.98	
26 05 33 13-2528 EA 6" Plastic Conduit Field Bending.....	138.87	
26 05 33 13-2529 Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0058)		
Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2530 EA 1/2", Cut And Thread Existing In-Place Threaded Conduit.....	40.73	
For Work In Restricted Working Space, Add	12.22	
26 05 33 13-2531 EA 3/4", Cut And Thread Existing In-Place Threaded Conduit.....	44.81	
For Work In Restricted Working Space, Add	13.44	
26 05 33 13-2532 EA 1", Cut And Thread Existing In-Place Threaded Conduit.....	48.88	
For Work In Restricted Working Space, Add	14.66	
26 05 33 13-2533 EA 1-1/4", Cut And Thread Existing In-Place Threaded Conduit.....	52.95	
For Work In Restricted Working Space, Add	15.89	
26 05 33 13-2534 EA 1-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	55.67	
For Work In Restricted Working Space, Add	16.70	
26 05 33 13-2535 EA 2", Cut And Thread Existing In-Place Threaded Conduit.....	58.38	
For Work In Restricted Working Space, Add	17.51	
26 05 33 13-2536 EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	61.09	
For Work In Restricted Working Space, Add	18.33	
26 05 33 13-2537 EA 3", Cut And Thread Existing In-Place Threaded Conduit.....	63.82	
For Work In Restricted Working Space, Add	19.15	
26 05 33 13-2538 EA 3-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	65.18	
For Work In Restricted Working Space, Add	19.55	
26 05 33 13-2539 EA 4", Cut And Thread Existing In-Place Threaded Conduit.....	66.53	
For Work In Restricted Working Space, Add	19.96	
26 05 33 13-2540 EA 5", Cut And Thread Existing In-Place Threaded Conduit.....	69.25	
For Work In Restricted Working Space, Add	20.78	
26 05 33 13-2541 EA 6", Cut And Thread Existing In-Place Threaded Conduit.....	71.96	
For Work In Restricted Working Space, Add	21.59	
26 05 33 13-2542 Metallic Conduit Bodies (26 05 33 13-0058)		
26 05 33 13-2543 Threaded, Cast Aluminum Conduit Body (26 05 33 13-2542)		
Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), Intermediate Metal Conduit (IMC), or Aluminum Rigid Conduit (ARC)		
26 05 33 13-2544 Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2543)		
26 05 33 13-2545 EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	71.19	23.77
For Mogul LB, Add	5.86	
For Work In Restricted Working Space, Add	17.83	
For Elevated Installation >10' To 15' Above Floor, Add	5.94	
For Elevated Installation >15' To 20' Above Floor, Add	11.88	
For Elevated Installation >20' To 25' Above Floor, Add	14.86	
For Elevated Installation >25' To 30' Above Floor, Add	20.80	
For Elevated Installation >30' To 35' Above Floor, Add	23.77	
For Elevated Installation >35' To 40' Above Floor, Add	29.71	
For Elevated Installation >40' Above Floor, Add	32.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.83	
26 05 33 13-2546 EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	84.07	27.23
For Mogul LB, Add	8.58	
For Work In Restricted Working Space, Add	20.43	
For Elevated Installation >10' To 15' Above Floor, Add	6.81	
For Elevated Installation >15' To 20' Above Floor, Add	13.62	
For Elevated Installation >20' To 25' Above Floor, Add	17.02	
For Elevated Installation >25' To 30' Above Floor, Add	23.83	
For Elevated Installation >30' To 35' Above Floor, Add	27.24	
For Elevated Installation >35' To 40' Above Floor, Add	34.05	
For Elevated Installation >40' Above Floor, Add	37.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	
26 05 33 13-2547 EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	101.98	31.69
For Mogul LB, Add	13.10	
For Work In Restricted Working Space, Add	23.77	
For Elevated Installation >10' To 15' Above Floor, Add	7.92	
For Elevated Installation >15' To 20' Above Floor, Add	15.85	
For Elevated Installation >20' To 25' Above Floor, Add	19.81	
For Elevated Installation >25' To 30' Above Floor, Add	27.73	
For Elevated Installation >30' To 35' Above Floor, Add	31.69	
For Elevated Installation >35' To 40' Above Floor, Add	39.62	
For Elevated Installation >40' Above Floor, Add	43.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.77	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2548 EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	124.35	36.15
For Mogul LB, Add	20.96	
For Work In Restricted Working Space, Add	27.11	
For Elevated Installation >10' To 15' Above Floor, Add	9.04	
For Elevated Installation >15' To 20' Above Floor, Add	18.08	
For Elevated Installation >20' To 25' Above Floor, Add	22.60	
For Elevated Installation >25' To 30' Above Floor, Add	31.63	
For Elevated Installation >30' To 35' Above Floor, Add	36.15	
For Elevated Installation >35' To 40' Above Floor, Add	45.19	
For Elevated Installation >40' Above Floor, Add	49.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.11	
26 05 33 13-2549 EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	142.86	39.62
For Mogul LB, Add	27.91	
For Work In Restricted Working Space, Add	29.71	
For Elevated Installation >10' To 15' Above Floor, Add	9.90	
For Elevated Installation >15' To 20' Above Floor, Add	19.81	
For Elevated Installation >20' To 25' Above Floor, Add	24.76	
For Elevated Installation >25' To 30' Above Floor, Add	34.66	
For Elevated Installation >30' To 35' Above Floor, Add	39.62	
For Elevated Installation >35' To 40' Above Floor, Add	49.52	
For Elevated Installation >40' Above Floor, Add	54.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 05 33 13-2550 EA 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	189.62	47.54
For Mogul LB, Add	47.14	
For Work In Restricted Working Space, Add	35.65	
For Elevated Installation >10' To 15' Above Floor, Add	11.88	
For Elevated Installation >15' To 20' Above Floor, Add	23.77	
For Elevated Installation >20' To 25' Above Floor, Add	29.71	
For Elevated Installation >25' To 30' Above Floor, Add	41.59	
For Elevated Installation >30' To 35' Above Floor, Add	47.54	
For Elevated Installation >35' To 40' Above Floor, Add	59.42	
For Elevated Installation >40' Above Floor, Add	65.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.65	
26 05 33 13-2551 EA 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	323.79	66.85
For Mogul LB, Add	109.14	
For Work In Restricted Working Space, Add	50.14	
For Elevated Installation >10' To 15' Above Floor, Add	16.71	
For Elevated Installation >15' To 20' Above Floor, Add	33.43	
For Elevated Installation >20' To 25' Above Floor, Add	41.78	
For Elevated Installation >25' To 30' Above Floor, Add	58.50	
For Elevated Installation >30' To 35' Above Floor, Add	66.85	
For Elevated Installation >35' To 40' Above Floor, Add	83.57	
For Elevated Installation >40' Above Floor, Add	91.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.14	
26 05 33 13-2552 EA 3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	425.11	89.13
For Mogul LB, Add	140.56	
For Work In Restricted Working Space, Add	66.85	
For Elevated Installation >10' To 15' Above Floor, Add	22.28	
For Elevated Installation >15' To 20' Above Floor, Add	44.57	
For Elevated Installation >20' To 25' Above Floor, Add	55.71	
For Elevated Installation >25' To 30' Above Floor, Add	77.99	
For Elevated Installation >30' To 35' Above Floor, Add	89.14	
For Elevated Installation >35' To 40' Above Floor, Add	111.42	
For Elevated Installation >40' Above Floor, Add	122.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.85	
26 05 33 13-2553 EA 3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	567.84	111.42
For Mogul LB, Add	203.04	
For Work In Restricted Working Space, Add	83.57	
For Elevated Installation >10' To 15' Above Floor, Add	27.86	
For Elevated Installation >15' To 20' Above Floor, Add	55.71	
For Elevated Installation >20' To 25' Above Floor, Add	69.64	
For Elevated Installation >25' To 30' Above Floor, Add	97.49	
For Elevated Installation >30' To 35' Above Floor, Add	111.42	
For Elevated Installation >35' To 40' Above Floor, Add	139.28	
For Elevated Installation >40' Above Floor, Add	153.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.57	
26 05 33 13-2554 EA 4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	741.20	135.68
For Mogul LB, Add	284.52	
For Work In Restricted Working Space, Add	101.77	
For Elevated Installation >10' To 15' Above Floor, Add	33.92	
For Elevated Installation >15' To 20' Above Floor, Add	67.84	
For Elevated Installation >20' To 25' Above Floor, Add	84.81	
For Elevated Installation >25' To 30' Above Floor, Add	118.73	
For Elevated Installation >30' To 35' Above Floor, Add	135.69	
For Elevated Installation >35' To 40' Above Floor, Add	169.61	
For Elevated Installation >40' Above Floor, Add	186.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.77	

26 05 33 13-2555 Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover
(26 05 33 13-2543)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2556	EA	1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	72.62	23.77
			For Mogul LB, Add	6.93	
			For Work In Restricted Working Space, Add	17.83	
			For Elevated Installation >10' To 15' Above Floor, Add	5.94	
			For Elevated Installation >15' To 20' Above Floor, Add	11.88	
			For Elevated Installation >20' To 25' Above Floor, Add	14.86	
			For Elevated Installation >25' To 30' Above Floor, Add	20.80	
			For Elevated Installation >30' To 35' Above Floor, Add	23.77	
			For Elevated Installation >35' To 40' Above Floor, Add	29.71	
			For Elevated Installation >40' Above Floor, Add	32.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.83	
26 05 33	13-2557	EA	3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	85.47	27.23
			For Mogul LB, Add	9.63	
			For Work In Restricted Working Space, Add	20.43	
			For Elevated Installation >10' To 15' Above Floor, Add	6.81	
			For Elevated Installation >15' To 20' Above Floor, Add	13.62	
			For Elevated Installation >20' To 25' Above Floor, Add	17.02	
			For Elevated Installation >25' To 30' Above Floor, Add	23.83	
			For Elevated Installation >30' To 35' Above Floor, Add	27.24	
			For Elevated Installation >35' To 40' Above Floor, Add	34.05	
			For Elevated Installation >40' Above Floor, Add	37.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	
26 05 33	13-2558	EA	1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	104.79	31.69
			For Mogul LB, Add	15.21	
			For Work In Restricted Working Space, Add	23.77	
			For Elevated Installation >10' To 15' Above Floor, Add	7.92	
			For Elevated Installation >15' To 20' Above Floor, Add	15.85	
			For Elevated Installation >20' To 25' Above Floor, Add	19.81	
			For Elevated Installation >25' To 30' Above Floor, Add	27.73	
			For Elevated Installation >30' To 35' Above Floor, Add	31.69	
			For Elevated Installation >35' To 40' Above Floor, Add	39.62	
			For Elevated Installation >40' Above Floor, Add	43.58	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.77	
26 05 33	13-2559	EA	1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	127.78	36.15
			For Mogul LB, Add	23.53	
			For Work In Restricted Working Space, Add	27.11	
			For Elevated Installation >10' To 15' Above Floor, Add	9.04	
			For Elevated Installation >15' To 20' Above Floor, Add	18.08	
			For Elevated Installation >20' To 25' Above Floor, Add	22.60	
			For Elevated Installation >25' To 30' Above Floor, Add	31.63	
			For Elevated Installation >30' To 35' Above Floor, Add	36.15	
			For Elevated Installation >35' To 40' Above Floor, Add	45.19	
			For Elevated Installation >40' Above Floor, Add	49.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.11	
26 05 33	13-2560	EA	1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	148.70	39.62
			For Mogul LB, Add	32.29	
			For Work In Restricted Working Space, Add	29.71	
			For Elevated Installation >10' To 15' Above Floor, Add	9.90	
			For Elevated Installation >15' To 20' Above Floor, Add	19.81	
			For Elevated Installation >20' To 25' Above Floor, Add	24.76	
			For Elevated Installation >25' To 30' Above Floor, Add	34.66	
			For Elevated Installation >30' To 35' Above Floor, Add	39.62	
			For Elevated Installation >35' To 40' Above Floor, Add	49.52	
			For Elevated Installation >40' Above Floor, Add	54.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 05 33	13-2561	EA	2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	202.14	47.54
			For Mogul LB, Add	56.53	
			For Work In Restricted Working Space, Add	35.65	
			For Elevated Installation >10' To 15' Above Floor, Add	11.88	
			For Elevated Installation >15' To 20' Above Floor, Add	23.77	
			For Elevated Installation >20' To 25' Above Floor, Add	29.71	
			For Elevated Installation >25' To 30' Above Floor, Add	41.59	
			For Elevated Installation >30' To 35' Above Floor, Add	47.54	
			For Elevated Installation >35' To 40' Above Floor, Add	59.42	
			For Elevated Installation >40' Above Floor, Add	65.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.65	
26 05 33	13-2562	EA	2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	317.48	66.85
			For Mogul LB, Add	104.41	
			For Work In Restricted Working Space, Add	50.14	
			For Elevated Installation >10' To 15' Above Floor, Add	16.71	
			For Elevated Installation >15' To 20' Above Floor, Add	33.43	
			For Elevated Installation >20' To 25' Above Floor, Add	41.78	
			For Elevated Installation >25' To 30' Above Floor, Add	58.50	
			For Elevated Installation >30' To 35' Above Floor, Add	66.85	
			For Elevated Installation >35' To 40' Above Floor, Add	83.57	
			For Elevated Installation >40' Above Floor, Add	91.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.14	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2563	EA	3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	403.88 124.64 66.85 22.28 44.57 55.71 77.99 89.14 111.42 122.56 66.85	89.13
26 05 33 13-2564	EA	3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	585.93 216.61 83.57 27.86 55.71 69.64 97.49 111.42 139.28 153.20 83.57	111.42
26 05 33 13-2565	EA	4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	778.19 312.27 101.77 33.92 67.84 84.81 118.73 135.69 169.61 186.57 101.77	135.68
26 05 33 13-2566		Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2543)		
26 05 33 13-2567	EA	1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.69 20.43 6.81 13.62 17.02 23.83 27.24 34.05 37.45 20.43	27.23
26 05 33 13-2568	EA	3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.32 23.77 7.92 15.85 19.81 27.73 31.69 39.62 43.58 23.77	31.69
26 05 33 13-2569	EA	1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	115.09 26.00 8.67 17.33 21.67 30.33 34.66 43.33 47.66 26.00	34.67
26 05 33 13-2570	EA	1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.13 29.71 9.90 19.81 24.76 34.66 39.62 49.52 54.47 29.71	39.62
26 05 33 13-2571	EA	1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	164.94 32.68 10.89 21.79 27.24 38.13 43.58 54.47 59.92 32.68	43.58



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2572	EA	2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	223.29	51.00
			For Work In Restricted Working Space, Add	38.25	
			For Elevated Installation >10' To 15' Above Floor, Add	12.75	
			For Elevated Installation >15' To 20' Above Floor, Add	25.50	
			For Elevated Installation >20' To 25' Above Floor, Add	31.88	
			For Elevated Installation >25' To 30' Above Floor, Add	44.63	
			For Elevated Installation >30' To 35' Above Floor, Add	51.00	
			For Elevated Installation >35' To 40' Above Floor, Add	63.76	
			For Elevated Installation >40' Above Floor, Add	70.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.25	
26 05 33 13-2573	EA	2-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	354.94	74.28
			For Work In Restricted Working Space, Add	55.71	
			For Elevated Installation >10' To 15' Above Floor, Add	18.57	
			For Elevated Installation >15' To 20' Above Floor, Add	37.14	
			For Elevated Installation >20' To 25' Above Floor, Add	46.43	
			For Elevated Installation >25' To 30' Above Floor, Add	65.00	
			For Elevated Installation >30' To 35' Above Floor, Add	74.28	
			For Elevated Installation >35' To 40' Above Floor, Add	92.85	
			For Elevated Installation >40' Above Floor, Add	102.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.71	
26 05 33 13-2574	EA	3"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	458.36	96.57
			For Work In Restricted Working Space, Add	72.42	
			For Elevated Installation >10' To 15' Above Floor, Add	24.14	
			For Elevated Installation >15' To 20' Above Floor, Add	48.28	
			For Elevated Installation >20' To 25' Above Floor, Add	60.35	
			For Elevated Installation >25' To 30' Above Floor, Add	84.49	
			For Elevated Installation >30' To 35' Above Floor, Add	96.56	
			For Elevated Installation >35' To 40' Above Floor, Add	120.71	
			For Elevated Installation >40' Above Floor, Add	132.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.42	
26 05 33 13-2575	EA	3-1/2"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	747.72	118.84
			For Work In Restricted Working Space, Add	89.14	
			For Elevated Installation >10' To 15' Above Floor, Add	29.71	
			For Elevated Installation >15' To 20' Above Floor, Add	59.42	
			For Elevated Installation >20' To 25' Above Floor, Add	74.28	
			For Elevated Installation >25' To 30' Above Floor, Add	103.99	
			For Elevated Installation >30' To 35' Above Floor, Add	118.85	
			For Elevated Installation >35' To 40' Above Floor, Add	148.56	
			For Elevated Installation >40' Above Floor, Add	163.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.14	
26 05 33 13-2576	EA	4"	Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	853.91	143.12
			For Work In Restricted Working Space, Add	107.33	
			For Elevated Installation >10' To 15' Above Floor, Add	35.78	
			For Elevated Installation >15' To 20' Above Floor, Add	71.56	
			For Elevated Installation >20' To 25' Above Floor, Add	89.45	
			For Elevated Installation >25' To 30' Above Floor, Add	125.22	
			For Elevated Installation >30' To 35' Above Floor, Add	143.11	
			For Elevated Installation >35' To 40' Above Floor, Add	178.89	
			For Elevated Installation >40' Above Floor, Add	196.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.33	
26 05 33 13-2577			Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....		
			13-2543		
26 05 33 13-2578	EA	1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	72.91	23.77
			For Work In Restricted Working Space, Add	17.83	
			For Elevated Installation >10' To 15' Above Floor, Add	5.94	
			For Elevated Installation >15' To 20' Above Floor, Add	11.88	
			For Elevated Installation >20' To 25' Above Floor, Add	14.86	
			For Elevated Installation >25' To 30' Above Floor, Add	20.80	
			For Elevated Installation >30' To 35' Above Floor, Add	23.77	
			For Elevated Installation >35' To 40' Above Floor, Add	29.71	
			For Elevated Installation >40' Above Floor, Add	32.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.83	
26 05 33 13-2579	EA	3/4"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	84.48	27.23
			For Work In Restricted Working Space, Add	20.43	
			For Elevated Installation >10' To 15' Above Floor, Add	6.81	
			For Elevated Installation >15' To 20' Above Floor, Add	13.62	
			For Elevated Installation >20' To 25' Above Floor, Add	17.02	
			For Elevated Installation >25' To 30' Above Floor, Add	23.83	
			For Elevated Installation >30' To 35' Above Floor, Add	27.24	
			For Elevated Installation >35' To 40' Above Floor, Add	34.05	
			For Elevated Installation >40' Above Floor, Add	37.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	
26 05 33 13-2580	EA	1"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	102.42	31.20
			For Work In Restricted Working Space, Add	23.40	
			For Elevated Installation >10' To 15' Above Floor, Add	7.80	
			For Elevated Installation >15' To 20' Above Floor, Add	15.60	
			For Elevated Installation >20' To 25' Above Floor, Add	19.50	
			For Elevated Installation >25' To 30' Above Floor, Add	27.30	
			For Elevated Installation >30' To 35' Above Floor, Add	31.20	
			For Elevated Installation >35' To 40' Above Floor, Add	39.00	
			For Elevated Installation >40' Above Floor, Add	42.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2581	EA	1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 126.41		36.15
		For Work In Restricted Working Space, Add	27.11	
		For Elevated Installation >10' To 15' Above Floor, Add	9.04	
		For Elevated Installation >15' To 20' Above Floor, Add	18.08	
		For Elevated Installation >20' To 25' Above Floor, Add	22.60	
		For Elevated Installation >25' To 30' Above Floor, Add	31.63	
		For Elevated Installation >30' To 35' Above Floor, Add	36.15	
		For Elevated Installation >35' To 40' Above Floor, Add	45.19	
		For Elevated Installation >40' Above Floor, Add	49.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.11	
26 05 33 13-2582	EA	1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 141.91		39.62
		For Work In Restricted Working Space, Add	29.71	
		For Elevated Installation >10' To 15' Above Floor, Add	9.90	
		For Elevated Installation >15' To 20' Above Floor, Add	19.81	
		For Elevated Installation >20' To 25' Above Floor, Add	24.76	
		For Elevated Installation >25' To 30' Above Floor, Add	34.66	
		For Elevated Installation >30' To 35' Above Floor, Add	39.62	
		For Elevated Installation >35' To 40' Above Floor, Add	49.52	
		For Elevated Installation >40' Above Floor, Add	54.47	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 05 33 13-2583	EA	2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 189.73		47.54
		For Work In Restricted Working Space, Add	35.65	
		For Elevated Installation >10' To 15' Above Floor, Add	11.88	
		For Elevated Installation >15' To 20' Above Floor, Add	23.77	
		For Elevated Installation >20' To 25' Above Floor, Add	29.71	
		For Elevated Installation >25' To 30' Above Floor, Add	41.59	
		For Elevated Installation >30' To 35' Above Floor, Add	47.54	
		For Elevated Installation >35' To 40' Above Floor, Add	59.42	
		For Elevated Installation >40' Above Floor, Add	65.36	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.65	
26 05 33 13-2584	EA	2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 312.16		66.85
		For Work In Restricted Working Space, Add	50.14	
		For Elevated Installation >10' To 15' Above Floor, Add	16.71	
		For Elevated Installation >15' To 20' Above Floor, Add	33.43	
		For Elevated Installation >20' To 25' Above Floor, Add	41.78	
		For Elevated Installation >25' To 30' Above Floor, Add	58.50	
		For Elevated Installation >30' To 35' Above Floor, Add	66.85	
		For Elevated Installation >35' To 40' Above Floor, Add	83.57	
		For Elevated Installation >40' Above Floor, Add	91.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.14	
26 05 33 13-2585	EA	3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 400.49		89.13
		For Work In Restricted Working Space, Add	66.85	
		For Elevated Installation >10' To 15' Above Floor, Add	22.28	
		For Elevated Installation >15' To 20' Above Floor, Add	44.57	
		For Elevated Installation >20' To 25' Above Floor, Add	55.71	
		For Elevated Installation >25' To 30' Above Floor, Add	77.99	
		For Elevated Installation >30' To 35' Above Floor, Add	89.14	
		For Elevated Installation >35' To 40' Above Floor, Add	111.42	
		For Elevated Installation >40' Above Floor, Add	122.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.85	
26 05 33 13-2586	EA	3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 575.05		111.42
		For Work In Restricted Working Space, Add	83.57	
		For Elevated Installation >10' To 15' Above Floor, Add	27.86	
		For Elevated Installation >15' To 20' Above Floor, Add	55.71	
		For Elevated Installation >20' To 25' Above Floor, Add	69.64	
		For Elevated Installation >25' To 30' Above Floor, Add	97.49	
		For Elevated Installation >30' To 35' Above Floor, Add	111.42	
		For Elevated Installation >35' To 40' Above Floor, Add	139.28	
		For Elevated Installation >40' Above Floor, Add	153.20	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.57	
26 05 33 13-2587	EA	4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 744.60		135.68
		For Work In Restricted Working Space, Add	101.77	
		For Elevated Installation >10' To 15' Above Floor, Add	33.92	
		For Elevated Installation >15' To 20' Above Floor, Add	67.84	
		For Elevated Installation >20' To 25' Above Floor, Add	84.81	
		For Elevated Installation >25' To 30' Above Floor, Add	118.73	
		For Elevated Installation >30' To 35' Above Floor, Add	135.69	
		For Elevated Installation >35' To 40' Above Floor, Add	169.61	
		For Elevated Installation >40' Above Floor, Add	186.57	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.77	

26 05 33 13-2588 Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover (26 05 33

26 05 33 13-2589	EA	1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover 97.15		31.20
		For Work In Restricted Working Space, Add	23.40	
		For Elevated Installation >10' To 15' Above Floor, Add	7.80	
		For Elevated Installation >15' To 20' Above Floor, Add	15.60	
		For Elevated Installation >20' To 25' Above Floor, Add	19.50	
		For Elevated Installation >25' To 30' Above Floor, Add	27.30	
		For Elevated Installation >30' To 35' Above Floor, Add	31.20	
		For Elevated Installation >35' To 40' Above Floor, Add	39.00	
		For Elevated Installation >40' Above Floor, Add	42.90	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2590	EA	3/4"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	112.56	34.67
			For Work In Restricted Working Space, Add	26.00	
			For Elevated Installation >10' To 15' Above Floor, Add	8.67	
			For Elevated Installation >15' To 20' Above Floor, Add	17.33	
			For Elevated Installation >20' To 25' Above Floor, Add	21.67	
			For Elevated Installation >25' To 30' Above Floor, Add	30.33	
			For Elevated Installation >30' To 35' Above Floor, Add	34.66	
			For Elevated Installation >35' To 40' Above Floor, Add	43.33	
			For Elevated Installation >40' Above Floor, Add	47.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.00	
26 05 33 13-2591	EA	1"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	139.14	38.13
			For Work In Restricted Working Space, Add	28.60	
			For Elevated Installation >10' To 15' Above Floor, Add	9.53	
			For Elevated Installation >15' To 20' Above Floor, Add	19.06	
			For Elevated Installation >20' To 25' Above Floor, Add	23.83	
			For Elevated Installation >25' To 30' Above Floor, Add	33.36	
			For Elevated Installation >30' To 35' Above Floor, Add	38.13	
			For Elevated Installation >35' To 40' Above Floor, Add	47.66	
			For Elevated Installation >40' Above Floor, Add	52.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.60	
26 05 33 13-2592	EA	1-1/4"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	160.54	43.58
			For Work In Restricted Working Space, Add	32.68	
			For Elevated Installation >10' To 15' Above Floor, Add	10.89	
			For Elevated Installation >15' To 20' Above Floor, Add	21.79	
			For Elevated Installation >20' To 25' Above Floor, Add	27.24	
			For Elevated Installation >25' To 30' Above Floor, Add	38.13	
			For Elevated Installation >30' To 35' Above Floor, Add	43.58	
			For Elevated Installation >35' To 40' Above Floor, Add	54.47	
			For Elevated Installation >40' Above Floor, Add	59.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.68	
26 05 33 13-2593	EA	1-1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	209.22	47.54
			For Work In Restricted Working Space, Add	35.65	
			For Elevated Installation >10' To 15' Above Floor, Add	11.88	
			For Elevated Installation >15' To 20' Above Floor, Add	23.77	
			For Elevated Installation >20' To 25' Above Floor, Add	29.71	
			For Elevated Installation >25' To 30' Above Floor, Add	41.59	
			For Elevated Installation >30' To 35' Above Floor, Add	47.54	
			For Elevated Installation >35' To 40' Above Floor, Add	59.42	
			For Elevated Installation >40' Above Floor, Add	65.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.65	
26 05 33 13-2594	EA	2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	252.67	58.43
			For Work In Restricted Working Space, Add	43.83	
			For Elevated Installation >10' To 15' Above Floor, Add	14.61	
			For Elevated Installation >15' To 20' Above Floor, Add	29.22	
			For Elevated Installation >20' To 25' Above Floor, Add	36.52	
			For Elevated Installation >25' To 30' Above Floor, Add	51.13	
			For Elevated Installation >30' To 35' Above Floor, Add	58.44	
			For Elevated Installation >35' To 40' Above Floor, Add	73.05	
			For Elevated Installation >40' Above Floor, Add	80.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.83	
26 05 33 13-2595	EA	2-1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	478.60	85.67
			For Work In Restricted Working Space, Add	64.25	
			For Elevated Installation >10' To 15' Above Floor, Add	21.42	
			For Elevated Installation >15' To 20' Above Floor, Add	42.83	
			For Elevated Installation >20' To 25' Above Floor, Add	53.54	
			For Elevated Installation >25' To 30' Above Floor, Add	74.96	
			For Elevated Installation >30' To 35' Above Floor, Add	85.67	
			For Elevated Installation >35' To 40' Above Floor, Add	107.09	
			For Elevated Installation >40' Above Floor, Add	117.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.25	
26 05 33 13-2596	EA	3"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	588.32	111.42
			For Work In Restricted Working Space, Add	83.57	
			For Elevated Installation >10' To 15' Above Floor, Add	27.86	
			For Elevated Installation >15' To 20' Above Floor, Add	55.71	
			For Elevated Installation >20' To 25' Above Floor, Add	69.64	
			For Elevated Installation >25' To 30' Above Floor, Add	97.49	
			For Elevated Installation >30' To 35' Above Floor, Add	111.42	
			For Elevated Installation >35' To 40' Above Floor, Add	139.28	
			For Elevated Installation >40' Above Floor, Add	153.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.57	
26 05 33 13-2597	EA	3-1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	846.23	137.67
			For Work In Restricted Working Space, Add	103.99	
			For Elevated Installation >10' To 15' Above Floor, Add	34.66	
			For Elevated Installation >15' To 20' Above Floor, Add	69.33	
			For Elevated Installation >20' To 25' Above Floor, Add	86.66	
			For Elevated Installation >25' To 30' Above Floor, Add	121.32	
			For Elevated Installation >30' To 35' Above Floor, Add	138.66	
			For Elevated Installation >35' To 40' Above Floor, Add	173.32	
			For Elevated Installation >40' Above Floor, Add	190.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.99	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2598 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	1,022.96	165.39
For Work In Restricted Working Space, Add	124.05	
For Elevated Installation >10' To 15' Above Floor, Add	41.35	
For Elevated Installation >15' To 20' Above Floor, Add	82.70	
For Elevated Installation >20' To 25' Above Floor, Add	103.37	
For Elevated Installation >25' To 30' Above Floor, Add	144.72	
For Elevated Installation >30' To 35' Above Floor, Add	165.40	
For Elevated Installation >35' To 40' Above Floor, Add	206.75	
For Elevated Installation >40' Above Floor, Add	227.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	124.05	
26 05 33 13-2599 Threaded, Malleable Iron Conduit Body (26 05 33 13-2542)		
Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), or Intermediate Metal Conduit (IMC)		
26 05 33 13-2600 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)		
26 05 33 13-2601 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	75.19	23.77
For Work In Restricted Working Space, Add	17.83	
For Elevated Installation >10' To 15' Above Floor, Add	5.94	
For Elevated Installation >15' To 20' Above Floor, Add	11.88	
For Elevated Installation >20' To 25' Above Floor, Add	14.86	
For Elevated Installation >25' To 30' Above Floor, Add	20.80	
For Elevated Installation >30' To 35' Above Floor, Add	23.77	
For Elevated Installation >35' To 40' Above Floor, Add	29.71	
For Elevated Installation >40' Above Floor, Add	32.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.83	
26 05 33 13-2602 EA 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	87.43	27.23
For Work In Restricted Working Space, Add	20.43	
For Elevated Installation >10' To 15' Above Floor, Add	6.81	
For Elevated Installation >15' To 20' Above Floor, Add	13.62	
For Elevated Installation >20' To 25' Above Floor, Add	17.02	
For Elevated Installation >25' To 30' Above Floor, Add	23.83	
For Elevated Installation >30' To 35' Above Floor, Add	27.24	
For Elevated Installation >35' To 40' Above Floor, Add	34.05	
For Elevated Installation >40' Above Floor, Add	37.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	
26 05 33 13-2603 EA 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	108.05	31.69
For Work In Restricted Working Space, Add	23.77	
For Elevated Installation >10' To 15' Above Floor, Add	7.92	
For Elevated Installation >15' To 20' Above Floor, Add	15.85	
For Elevated Installation >20' To 25' Above Floor, Add	19.81	
For Elevated Installation >25' To 30' Above Floor, Add	27.73	
For Elevated Installation >30' To 35' Above Floor, Add	31.69	
For Elevated Installation >35' To 40' Above Floor, Add	39.62	
For Elevated Installation >40' Above Floor, Add	43.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.77	
26 05 33 13-2604 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	142.07	36.15
For Work In Restricted Working Space, Add	27.11	
For Elevated Installation >10' To 15' Above Floor, Add	9.04	
For Elevated Installation >15' To 20' Above Floor, Add	18.07	
For Elevated Installation >20' To 25' Above Floor, Add	22.59	
For Elevated Installation >25' To 30' Above Floor, Add	31.63	
For Elevated Installation >30' To 35' Above Floor, Add	36.15	
For Elevated Installation >35' To 40' Above Floor, Add	45.19	
For Elevated Installation >40' Above Floor, Add	49.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.11	
26 05 33 13-2605 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	162.46	39.62
For Work In Restricted Working Space, Add	29.71	
For Elevated Installation >10' To 15' Above Floor, Add	9.90	
For Elevated Installation >15' To 20' Above Floor, Add	19.81	
For Elevated Installation >20' To 25' Above Floor, Add	24.76	
For Elevated Installation >25' To 30' Above Floor, Add	34.66	
For Elevated Installation >30' To 35' Above Floor, Add	39.62	
For Elevated Installation >35' To 40' Above Floor, Add	49.52	
For Elevated Installation >40' Above Floor, Add	54.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 05 33 13-2606 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	224.98	47.54
For Work In Restricted Working Space, Add	35.66	
For Elevated Installation >10' To 15' Above Floor, Add	11.89	
For Elevated Installation >15' To 20' Above Floor, Add	23.77	
For Elevated Installation >20' To 25' Above Floor, Add	29.71	
For Elevated Installation >25' To 30' Above Floor, Add	41.60	
For Elevated Installation >30' To 35' Above Floor, Add	47.54	
For Elevated Installation >35' To 40' Above Floor, Add	59.43	
For Elevated Installation >40' Above Floor, Add	65.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.66	
26 05 33 13-2607 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	384.38	66.85
For Work In Restricted Working Space, Add	50.14	
For Elevated Installation >10' To 15' Above Floor, Add	16.71	
For Elevated Installation >15' To 20' Above Floor, Add	33.43	
For Elevated Installation >20' To 25' Above Floor, Add	41.79	
For Elevated Installation >25' To 30' Above Floor, Add	58.50	
For Elevated Installation >30' To 35' Above Floor, Add	66.86	
For Elevated Installation >35' To 40' Above Floor, Add	83.57	
For Elevated Installation >40' Above Floor, Add	91.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2608 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	546.92 66.86 22.29 44.57 55.71 78.00 89.14 111.43 122.57 66.86	89.13
26 05 33 13-2609 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	758.33 83.57 27.86 55.71 69.64 97.49 111.42 139.28 153.20 83.57	111.42
26 05 33 13-2610 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	906.56 101.77 33.92 67.84 84.81 118.73 135.69 169.61 186.57 101.77	135.68
26 05 33 13-2611 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)		
26 05 33 13-2612 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.84 17.83	23.77
26 05 33 13-2613 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.50 20.43	27.23
26 05 33 13-2614 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.62 23.77	31.69
26 05 33 13-2615 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.81 27.11	36.15
26 05 33 13-2616 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	167.03 29.71	39.62
26 05 33 13-2617 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	215.60 35.66	47.54
26 05 33 13-2618 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	332.29 50.14	66.85
26 05 33 13-2619 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	453.26 66.86	89.13
26 05 33 13-2620 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	813.49 83.57	111.42
26 05 33 13-2621 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	947.24 101.77	135.68
26 05 33 13-2622 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)		
26 05 33 13-2623 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.13 20.43 6.81 13.62 17.02 23.83 27.24 34.05 37.45 20.43	27.23
26 05 33 13-2624 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.92 24.14 8.05 16.09 20.12 28.16 32.19 40.24 44.26 24.14	31.69

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2625 EA 1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	132.72	34.67
For Work In Restricted Working Space, Add	26.00	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.33	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.33	
For Elevated Installation >30' To 35' Above Floor, Add	34.66	
For Elevated Installation >35' To 40' Above Floor, Add	43.33	
For Elevated Installation >40' Above Floor, Add	47.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.00	
26 05 33 13-2626 EA 1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	169.16	39.62
For Work In Restricted Working Space, Add	29.34	
For Elevated Installation >10' To 15' Above Floor, Add	9.78	
For Elevated Installation >15' To 20' Above Floor, Add	19.56	
For Elevated Installation >20' To 25' Above Floor, Add	24.45	
For Elevated Installation >25' To 30' Above Floor, Add	34.23	
For Elevated Installation >30' To 35' Above Floor, Add	39.12	
For Elevated Installation >35' To 40' Above Floor, Add	48.90	
For Elevated Installation >40' Above Floor, Add	53.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.34	
26 05 33 13-2627 EA 1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	194.69	43.58
For Work In Restricted Working Space, Add	32.68	
For Elevated Installation >10' To 15' Above Floor, Add	10.89	
For Elevated Installation >15' To 20' Above Floor, Add	21.79	
For Elevated Installation >20' To 25' Above Floor, Add	27.24	
For Elevated Installation >25' To 30' Above Floor, Add	38.13	
For Elevated Installation >30' To 35' Above Floor, Add	43.58	
For Elevated Installation >35' To 40' Above Floor, Add	54.47	
For Elevated Installation >40' Above Floor, Add	59.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.68	
26 05 33 13-2628 EA 2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	261.86	51.00
For Work In Restricted Working Space, Add	38.25	
For Elevated Installation >10' To 15' Above Floor, Add	12.75	
For Elevated Installation >15' To 20' Above Floor, Add	25.50	
For Elevated Installation >20' To 25' Above Floor, Add	31.88	
For Elevated Installation >25' To 30' Above Floor, Add	44.63	
For Elevated Installation >30' To 35' Above Floor, Add	51.00	
For Elevated Installation >35' To 40' Above Floor, Add	63.76	
For Elevated Installation >40' Above Floor, Add	70.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.25	
26 05 33 13-2629 EA 2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	326.65	74.28
For Work In Restricted Working Space, Add	55.71	
For Elevated Installation >10' To 15' Above Floor, Add	18.57	
For Elevated Installation >15' To 20' Above Floor, Add	37.14	
For Elevated Installation >20' To 25' Above Floor, Add	46.43	
For Elevated Installation >25' To 30' Above Floor, Add	65.00	
For Elevated Installation >30' To 35' Above Floor, Add	74.28	
For Elevated Installation >35' To 40' Above Floor, Add	92.85	
For Elevated Installation >40' Above Floor, Add	102.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.71	
26 05 33 13-2630 EA 3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	475.64	96.57
For Work In Restricted Working Space, Add	72.42	
For Elevated Installation >10' To 15' Above Floor, Add	24.14	
For Elevated Installation >15' To 20' Above Floor, Add	48.28	
For Elevated Installation >20' To 25' Above Floor, Add	60.35	
For Elevated Installation >25' To 30' Above Floor, Add	84.49	
For Elevated Installation >30' To 35' Above Floor, Add	96.56	
For Elevated Installation >35' To 40' Above Floor, Add	120.71	
For Elevated Installation >40' Above Floor, Add	132.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.42	
26 05 33 13-2631 EA 3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	857.53	118.84
For Work In Restricted Working Space, Add	89.14	
For Elevated Installation >10' To 15' Above Floor, Add	29.71	
For Elevated Installation >15' To 20' Above Floor, Add	59.42	
For Elevated Installation >20' To 25' Above Floor, Add	74.28	
For Elevated Installation >25' To 30' Above Floor, Add	103.99	
For Elevated Installation >30' To 35' Above Floor, Add	118.85	
For Elevated Installation >35' To 40' Above Floor, Add	148.56	
For Elevated Installation >40' Above Floor, Add	163.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.14	
26 05 33 13-2632 EA 4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	989.06	143.12
For Work In Restricted Working Space, Add	107.71	
For Elevated Installation >10' To 15' Above Floor, Add	35.90	
For Elevated Installation >15' To 20' Above Floor, Add	71.80	
For Elevated Installation >20' To 25' Above Floor, Add	89.76	
For Elevated Installation >25' To 30' Above Floor, Add	125.66	
For Elevated Installation >30' To 35' Above Floor, Add	143.61	
For Elevated Installation >35' To 40' Above Floor, Add	179.51	
For Elevated Installation >40' Above Floor, Add	197.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.71	

26 05 33 13-2633 Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2634	EA	1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	75.47	23.77
			For Work In Restricted Working Space, Add	17.83	
			For Elevated Installation >10' To 15' Above Floor, Add	5.94	
			For Elevated Installation >15' To 20' Above Floor, Add	11.88	
			For Elevated Installation >20' To 25' Above Floor, Add	14.86	
			For Elevated Installation >25' To 30' Above Floor, Add	20.80	
			For Elevated Installation >30' To 35' Above Floor, Add	23.77	
			For Elevated Installation >35' To 40' Above Floor, Add	29.71	
			For Elevated Installation >40' Above Floor, Add	32.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.83	
26 05 33	13-2635	EA	3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	92.15	27.23
			For Work In Restricted Working Space, Add	20.43	
			For Elevated Installation >10' To 15' Above Floor, Add	6.81	
			For Elevated Installation >15' To 20' Above Floor, Add	13.62	
			For Elevated Installation >20' To 25' Above Floor, Add	17.02	
			For Elevated Installation >25' To 30' Above Floor, Add	23.83	
			For Elevated Installation >30' To 35' Above Floor, Add	27.24	
			For Elevated Installation >35' To 40' Above Floor, Add	34.05	
			For Elevated Installation >40' Above Floor, Add	37.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	
26 05 33	13-2636	EA	1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	108.13	31.20
			For Work In Restricted Working Space, Add	23.40	
			For Elevated Installation >10' To 15' Above Floor, Add	7.80	
			For Elevated Installation >15' To 20' Above Floor, Add	15.60	
			For Elevated Installation >20' To 25' Above Floor, Add	19.50	
			For Elevated Installation >25' To 30' Above Floor, Add	27.30	
			For Elevated Installation >30' To 35' Above Floor, Add	31.20	
			For Elevated Installation >35' To 40' Above Floor, Add	39.00	
			For Elevated Installation >40' Above Floor, Add	42.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.40	
26 05 33	13-2637	EA	1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	148.95	36.15
			For Work In Restricted Working Space, Add	27.11	
			For Elevated Installation >10' To 15' Above Floor, Add	9.04	
			For Elevated Installation >15' To 20' Above Floor, Add	18.08	
			For Elevated Installation >20' To 25' Above Floor, Add	22.60	
			For Elevated Installation >25' To 30' Above Floor, Add	31.63	
			For Elevated Installation >30' To 35' Above Floor, Add	36.15	
			For Elevated Installation >35' To 40' Above Floor, Add	45.19	
			For Elevated Installation >40' Above Floor, Add	49.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.11	
26 05 33	13-2638	EA	1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	175.35	39.62
			For Work In Restricted Working Space, Add	29.71	
			For Elevated Installation >10' To 15' Above Floor, Add	9.90	
			For Elevated Installation >15' To 20' Above Floor, Add	19.81	
			For Elevated Installation >20' To 25' Above Floor, Add	24.76	
			For Elevated Installation >25' To 30' Above Floor, Add	34.66	
			For Elevated Installation >30' To 35' Above Floor, Add	39.62	
			For Elevated Installation >35' To 40' Above Floor, Add	49.52	
			For Elevated Installation >40' Above Floor, Add	54.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.71	
26 05 33	13-2639	EA	2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	228.65	47.54
			For Work In Restricted Working Space, Add	35.65	
			For Elevated Installation >10' To 15' Above Floor, Add	11.88	
			For Elevated Installation >15' To 20' Above Floor, Add	23.77	
			For Elevated Installation >20' To 25' Above Floor, Add	29.71	
			For Elevated Installation >25' To 30' Above Floor, Add	41.59	
			For Elevated Installation >30' To 35' Above Floor, Add	47.54	
			For Elevated Installation >35' To 40' Above Floor, Add	59.42	
			For Elevated Installation >40' Above Floor, Add	65.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.65	
26 05 33	13-2640	EA	2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	502.14	125.41
			For Work In Restricted Working Space, Add	94.02	
			For Elevated Installation >10' To 15' Above Floor, Add	31.34	
			For Elevated Installation >15' To 20' Above Floor, Add	62.68	
			For Elevated Installation >20' To 25' Above Floor, Add	78.35	
			For Elevated Installation >25' To 30' Above Floor, Add	109.69	
			For Elevated Installation >30' To 35' Above Floor, Add	125.36	
			For Elevated Installation >35' To 40' Above Floor, Add	156.70	
			For Elevated Installation >40' Above Floor, Add	172.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.02	
26 05 33	13-2641	EA	3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	492.60	89.13
			For Work In Restricted Working Space, Add	66.86	
			For Elevated Installation >10' To 15' Above Floor, Add	22.29	
			For Elevated Installation >15' To 20' Above Floor, Add	44.57	
			For Elevated Installation >20' To 25' Above Floor, Add	55.71	
			For Elevated Installation >25' To 30' Above Floor, Add	78.00	
			For Elevated Installation >30' To 35' Above Floor, Add	89.14	
			For Elevated Installation >35' To 40' Above Floor, Add	111.43	
			For Elevated Installation >40' Above Floor, Add	122.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.86	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2642 EA 3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	813.49	111.42
For Work In Restricted Working Space, Add	83.57	
For Elevated Installation >10' To 15' Above Floor, Add	27.86	
For Elevated Installation >15' To 20' Above Floor, Add	55.71	
For Elevated Installation >20' To 25' Above Floor, Add	69.64	
For Elevated Installation >25' To 30' Above Floor, Add	97.49	
For Elevated Installation >30' To 35' Above Floor, Add	111.42	
For Elevated Installation >35' To 40' Above Floor, Add	139.28	
For Elevated Installation >40' Above Floor, Add	153.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.57	
26 05 33 13-2643 EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover	947.22	135.68
For Work In Restricted Working Space, Add	101.76	
For Elevated Installation >10' To 15' Above Floor, Add	33.92	
For Elevated Installation >15' To 20' Above Floor, Add	67.84	
For Elevated Installation >20' To 25' Above Floor, Add	84.80	
For Elevated Installation >25' To 30' Above Floor, Add	118.72	
For Elevated Installation >30' To 35' Above Floor, Add	135.68	
For Elevated Installation >35' To 40' Above Floor, Add	169.60	
For Elevated Installation >40' Above Floor, Add	186.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.76	
26 05 33 13-2644 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33		
13-2599)		
26 05 33 13-2645 EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	106.87	31.20
For Work In Restricted Working Space, Add	23.40	
For Elevated Installation >10' To 15' Above Floor, Add	7.80	
For Elevated Installation >15' To 20' Above Floor, Add	15.60	
For Elevated Installation >20' To 25' Above Floor, Add	19.50	
For Elevated Installation >25' To 30' Above Floor, Add	27.30	
For Elevated Installation >30' To 35' Above Floor, Add	31.20	
For Elevated Installation >35' To 40' Above Floor, Add	39.00	
For Elevated Installation >40' Above Floor, Add	42.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.40	
26 05 33 13-2646 EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	116.60	34.67
For Work In Restricted Working Space, Add	26.00	
For Elevated Installation >10' To 15' Above Floor, Add	8.67	
For Elevated Installation >15' To 20' Above Floor, Add	17.33	
For Elevated Installation >20' To 25' Above Floor, Add	21.67	
For Elevated Installation >25' To 30' Above Floor, Add	30.33	
For Elevated Installation >30' To 35' Above Floor, Add	34.66	
For Elevated Installation >35' To 40' Above Floor, Add	43.33	
For Elevated Installation >40' Above Floor, Add	47.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.00	
26 05 33 13-2647 EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	136.42	38.13
For Work In Restricted Working Space, Add	28.60	
For Elevated Installation >10' To 15' Above Floor, Add	9.53	
For Elevated Installation >15' To 20' Above Floor, Add	19.06	
For Elevated Installation >20' To 25' Above Floor, Add	23.83	
For Elevated Installation >25' To 30' Above Floor, Add	33.36	
For Elevated Installation >30' To 35' Above Floor, Add	38.13	
For Elevated Installation >35' To 40' Above Floor, Add	47.66	
For Elevated Installation >40' Above Floor, Add	52.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.60	
26 05 33 13-2648 EA 1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	163.20	43.58
For Work In Restricted Working Space, Add	32.68	
For Elevated Installation >10' To 15' Above Floor, Add	10.89	
For Elevated Installation >15' To 20' Above Floor, Add	21.79	
For Elevated Installation >20' To 25' Above Floor, Add	27.24	
For Elevated Installation >25' To 30' Above Floor, Add	38.13	
For Elevated Installation >30' To 35' Above Floor, Add	43.58	
For Elevated Installation >35' To 40' Above Floor, Add	54.47	
For Elevated Installation >40' Above Floor, Add	59.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.68	
26 05 33 13-2649 EA 1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	189.64	47.54
For Work In Restricted Working Space, Add	35.65	
For Elevated Installation >10' To 15' Above Floor, Add	11.88	
For Elevated Installation >15' To 20' Above Floor, Add	23.77	
For Elevated Installation >20' To 25' Above Floor, Add	29.71	
For Elevated Installation >25' To 30' Above Floor, Add	41.59	
For Elevated Installation >30' To 35' Above Floor, Add	47.54	
For Elevated Installation >35' To 40' Above Floor, Add	59.42	
For Elevated Installation >40' Above Floor, Add	65.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.65	
26 05 33 13-2650 EA 2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	269.34	58.43
For Work In Restricted Working Space, Add	43.83	
For Elevated Installation >10' To 15' Above Floor, Add	14.61	
For Elevated Installation >15' To 20' Above Floor, Add	29.22	
For Elevated Installation >20' To 25' Above Floor, Add	36.52	
For Elevated Installation >25' To 30' Above Floor, Add	51.13	
For Elevated Installation >30' To 35' Above Floor, Add	58.44	
For Elevated Installation >35' To 40' Above Floor, Add	73.05	
For Elevated Installation >40' Above Floor, Add	80.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.83	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2651	EA	2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	434.23 64.25 21.42 42.83 53.54 74.96 85.67 107.09 117.79 64.25	85.67
26 05 33 13-2652	EA	3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	644.23 83.57 27.86 55.71 69.64 97.49 111.42 139.28 153.20 83.57	111.42
26 05 33 13-2653	EA	3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	976.52 103.25 34.42 68.83 86.04 120.46 137.66 172.08 189.29 103.25	137.67
26 05 33 13-2654	EA	4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,084.90 124.05 41.35 82.70 103.37 144.72 165.40 206.75 227.42 124.05	165.39
26 05 33 13-2655		Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2542) Note: For use with Electrical Metallic Tubing (EMT)		
26 05 33 13-2656		Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2655)		
26 05 33 13-2657	EA	1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.21 7.06 2.35 4.70 5.88 8.23 9.41 11.76 12.94 7.06	9.41
26 05 33 13-2658	EA	3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.41 9.29 3.10 6.19 7.74 10.83 12.38 15.48 17.02 9.29	12.38
26 05 33 13-2659	EA	1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.95 11.51 3.84 7.68 9.60 13.43 15.35 19.19 21.11 11.51	15.35
26 05 33 13-2660	EA	1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.83 14.11 4.70 9.41 11.76 16.46 18.82 23.52 25.87 14.11	18.81

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2661 EA 1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 113.26		21.78
For Work In Restricted Working Space, Add	16.34	
For Elevated Installation >10' To 15' Above Floor, Add	5.45	
For Elevated Installation >15' To 20' Above Floor, Add	10.90	
For Elevated Installation >20' To 25' Above Floor, Add	13.62	
For Elevated Installation >25' To 30' Above Floor, Add	19.07	
For Elevated Installation >30' To 35' Above Floor, Add	21.79	
For Elevated Installation >35' To 40' Above Floor, Add	27.24	
For Elevated Installation >40' Above Floor, Add	29.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	
26 05 33 13-2662 EA 2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 152.36		24.76
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	
26 05 33 13-2663 Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover		
(26 05 33 13-2665)		
26 05 33 13-2664 EA 1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 37.59		9.41
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-2665 EA 3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 48.85		12.38
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-2666 EA 1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 59.92		15.35
For Work In Restricted Working Space, Add	11.51	
For Elevated Installation >10' To 15' Above Floor, Add	3.84	
For Elevated Installation >15' To 20' Above Floor, Add	7.68	
For Elevated Installation >20' To 25' Above Floor, Add	9.60	
For Elevated Installation >25' To 30' Above Floor, Add	13.43	
For Elevated Installation >30' To 35' Above Floor, Add	15.35	
For Elevated Installation >35' To 40' Above Floor, Add	19.19	
For Elevated Installation >40' Above Floor, Add	21.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.51	
26 05 33 13-2667 EA 1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 84.40		18.81
For Work In Restricted Working Space, Add	14.11	
For Elevated Installation >10' To 15' Above Floor, Add	4.70	
For Elevated Installation >15' To 20' Above Floor, Add	9.41	
For Elevated Installation >20' To 25' Above Floor, Add	11.76	
For Elevated Installation >25' To 30' Above Floor, Add	16.46	
For Elevated Installation >30' To 35' Above Floor, Add	18.82	
For Elevated Installation >35' To 40' Above Floor, Add	23.52	
For Elevated Installation >40' Above Floor, Add	25.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.11	
26 05 33 13-2668 EA 1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 104.90		21.78
For Work In Restricted Working Space, Add	16.34	
For Elevated Installation >10' To 15' Above Floor, Add	5.45	
For Elevated Installation >15' To 20' Above Floor, Add	10.90	
For Elevated Installation >20' To 25' Above Floor, Add	13.62	
For Elevated Installation >25' To 30' Above Floor, Add	19.07	
For Elevated Installation >30' To 35' Above Floor, Add	21.79	
For Elevated Installation >35' To 40' Above Floor, Add	27.24	
For Elevated Installation >40' Above Floor, Add	29.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	
26 05 33 13-2669 EA 2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 151.64		24.76
For Work In Restricted Working Space, Add	18.57	
For Elevated Installation >10' To 15' Above Floor, Add	6.19	
For Elevated Installation >15' To 20' Above Floor, Add	12.38	
For Elevated Installation >20' To 25' Above Floor, Add	15.48	
For Elevated Installation >25' To 30' Above Floor, Add	21.67	
For Elevated Installation >30' To 35' Above Floor, Add	24.76	
For Elevated Installation >35' To 40' Above Floor, Add	30.95	
For Elevated Installation >40' Above Floor, Add	34.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2670 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2655)		
26 05 33 13-2671 EA 1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	48.19	12.38
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-2672 EA 3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	63.22	15.35
For Work In Restricted Working Space, Add	11.51	
For Elevated Installation >10' To 15' Above Floor, Add	3.84	
For Elevated Installation >15' To 20' Above Floor, Add	7.68	
For Elevated Installation >20' To 25' Above Floor, Add	9.60	
For Elevated Installation >25' To 30' Above Floor, Add	13.43	
For Elevated Installation >30' To 35' Above Floor, Add	15.35	
For Elevated Installation >35' To 40' Above Floor, Add	19.19	
For Elevated Installation >40' Above Floor, Add	21.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.51	
26 05 33 13-2673 EA 1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	76.08	18.81
For Work In Restricted Working Space, Add	14.11	
For Elevated Installation >10' To 15' Above Floor, Add	4.70	
For Elevated Installation >15' To 20' Above Floor, Add	9.41	
For Elevated Installation >20' To 25' Above Floor, Add	11.76	
For Elevated Installation >25' To 30' Above Floor, Add	16.46	
For Elevated Installation >30' To 35' Above Floor, Add	18.82	
For Elevated Installation >35' To 40' Above Floor, Add	23.52	
For Elevated Installation >40' Above Floor, Add	25.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.11	
26 05 33 13-2674 EA 1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	107.07	21.78
For Work In Restricted Working Space, Add	17.08	
For Elevated Installation >10' To 15' Above Floor, Add	5.69	
For Elevated Installation >15' To 20' Above Floor, Add	11.39	
For Elevated Installation >20' To 25' Above Floor, Add	14.24	
For Elevated Installation >25' To 30' Above Floor, Add	19.93	
For Elevated Installation >30' To 35' Above Floor, Add	22.78	
For Elevated Installation >35' To 40' Above Floor, Add	28.47	
For Elevated Installation >40' Above Floor, Add	31.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-2675 EA 1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	138.71	24.76
For Work In Restricted Working Space, Add	20.06	
For Elevated Installation >10' To 15' Above Floor, Add	6.69	
For Elevated Installation >15' To 20' Above Floor, Add	13.37	
For Elevated Installation >20' To 25' Above Floor, Add	16.71	
For Elevated Installation >25' To 30' Above Floor, Add	23.40	
For Elevated Installation >30' To 35' Above Floor, Add	26.74	
For Elevated Installation >35' To 40' Above Floor, Add	33.43	
For Elevated Installation >40' Above Floor, Add	36.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.06	
26 05 33 13-2676 EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	189.67	27.73
For Work In Restricted Working Space, Add	23.03	
For Elevated Installation >10' To 15' Above Floor, Add	7.68	
For Elevated Installation >15' To 20' Above Floor, Add	15.35	
For Elevated Installation >20' To 25' Above Floor, Add	19.19	
For Elevated Installation >25' To 30' Above Floor, Add	26.86	
For Elevated Installation >30' To 35' Above Floor, Add	30.70	
For Elevated Installation >35' To 40' Above Floor, Add	38.38	
For Elevated Installation >40' Above Floor, Add	42.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.03	
26 05 33 13-2677 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2655)		
26 05 33 13-2678 EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	38.82	9.41
For Work In Restricted Working Space, Add	7.06	
For Elevated Installation >10' To 15' Above Floor, Add	2.35	
For Elevated Installation >15' To 20' Above Floor, Add	4.70	
For Elevated Installation >20' To 25' Above Floor, Add	5.88	
For Elevated Installation >25' To 30' Above Floor, Add	8.23	
For Elevated Installation >30' To 35' Above Floor, Add	9.41	
For Elevated Installation >35' To 40' Above Floor, Add	11.76	
For Elevated Installation >40' Above Floor, Add	12.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.06	
26 05 33 13-2679 EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	52.06	12.38
For Work In Restricted Working Space, Add	9.29	
For Elevated Installation >10' To 15' Above Floor, Add	3.10	
For Elevated Installation >15' To 20' Above Floor, Add	6.19	
For Elevated Installation >20' To 25' Above Floor, Add	7.74	
For Elevated Installation >25' To 30' Above Floor, Add	10.83	
For Elevated Installation >30' To 35' Above Floor, Add	12.38	
For Elevated Installation >35' To 40' Above Floor, Add	15.48	
For Elevated Installation >40' Above Floor, Add	17.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2680 EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.77 11.51 3.84 7.68 9.60 13.43 15.35 19.19 21.11 11.51	15.35
26 05 33 13-2681 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.01 14.11 4.70 9.41 11.76 16.46 18.82 23.52 25.87 14.11	18.81
26 05 33 13-2682 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.40 16.34 5.45 10.90 13.62 19.07 21.79 27.24 29.96 16.34	21.78
26 05 33 13-2683 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15' Above Floor, Add For Elevated Installation >15' To 20' Above Floor, Add For Elevated Installation >20' To 25' Above Floor, Add For Elevated Installation >25' To 30' Above Floor, Add For Elevated Installation >30' To 35' Above Floor, Add For Elevated Installation >35' To 40' Above Floor, Add For Elevated Installation >40' Above Floor, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	165.59 18.57 6.19 12.38 15.48 21.67 24.76 30.95 34.05 18.57	24.76
26 05 33 13-2684 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-2542)		
26 05 33 13-2685 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.69 20.35	27.11
26 05 33 13-2686 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	650.77 37.62	50.14
26 05 33 13-2687 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,252.02 76.32	101.77
26 05 33 13-2688 Replacement Covers And Gaskets For Conduit Body (26 05 33 13-2542)		
26 05 33 13-2689 Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2688)		
26 05 33 13-2690 EA 1/2" Replacement Stamped Aluminum Conduit Body Cover 26 05 33 13-2691 EA 3/4" Replacement Stamped Aluminum Conduit Body Cover 26 05 33 13-2692 EA 1" Replacement Stamped Aluminum Conduit Body Cover 26 05 33 13-2693 EA 1-1/4" Replacement Stamped Aluminum Conduit Body Cover 26 05 33 13-2694 EA 1-1/2" Replacement Stamped Aluminum Conduit Body Cover 26 05 33 13-2695 EA 2" Replacement Stamped Aluminum Conduit Body Cover 26 05 33 13-2696 EA 2-1/2" Replacement Stamped Aluminum Conduit Body Cover 26 05 33 13-2697 EA 3" Replacement Stamped Aluminum Conduit Body Cover 26 05 33 13-2698 EA 3-1/2" Replacement Stamped Aluminum Conduit Body Cover 26 05 33 13-2699 EA 4" Replacement Stamped Aluminum Conduit Body Cover	13.50 16.66 21.33 25.94 32.07 38.19 51.66 65.76 71.31 89.88	4.83 5.63 7.24 8.85 10.47 12.07 13.68 19.32 21.72 27.36
26 05 33 13-2700 Replacement Cast Steel Conduit Body Cover (26 05 33 13-2688)		
26 05 33 13-2701 EA 1/2" Replacement Cast Steel Conduit Body Cover 26 05 33 13-2702 EA 3/4" Replacement Cast Steel Conduit Body Cover 26 05 33 13-2703 EA 1" Replacement Cast Steel Conduit Body Cover 26 05 33 13-2704 EA 1-1/4" Replacement Cast Steel Conduit Body Cover 26 05 33 13-2705 EA 1-1/2" Replacement Cast Steel Conduit Body Cover 26 05 33 13-2706 EA 2" Replacement Cast Steel Conduit Body Cover 26 05 33 13-2707 EA 2-1/2" Replacement Cast Steel Conduit Body Cover 26 05 33 13-2708 EA 3" Replacement Cast Steel Conduit Body Cover 26 05 33 13-2709 EA 3-1/2" Replacement Cast Steel Conduit Body Cover 26 05 33 13-2710 EA 4" Replacement Cast Steel Conduit Body Cover	16.13 18.94 26.97 33.58 40.97 48.37 55.70 75.31 86.35 108.91	4.83 5.63 7.24 8.85 10.47 12.07 13.68 19.32 21.72 27.36
26 05 33 13-2711 Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2688)		
26 05 33 13-2712 EA 1/2" Replacement Velbuna Composition Conduit Body Gasket..... 26 05 33 13-2713 EA 3/4" Replacement Velbuna Composition Conduit Body Gasket.....	12.33 14.03	4.83 5.63



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 05 33 13-2714	EA	1" Replacement Velbuna Composition Conduit Body Gasket.....	18.39	7.24	
26 05 33 13-2715	EA	1-1/4" Replacement Velbuna Composition Conduit Body Gasket	24.16	8.85	
26 05 33 13-2716	EA	1-1/2" Replacement Velbuna Composition Conduit Body Gasket	27.38	10.47	
26 05 33 13-2717	EA	2" Replacement Velbuna Composition Conduit Body Gasket.....	32.77	12.07	
26 05 33 13-2718	EA	2-1/2" Replacement Velbuna Composition Conduit Body Gasket	44.24	13.68	
26 05 33 13-2719	EA	3" Replacement Velbuna Composition Conduit Body Gasket.....	56.50	19.32	
26 05 33 13-2720	EA	3-1/2" Replacement Velbuna Composition Conduit Body Gasket	62.55	21.72	
26 05 33 13-2721	EA	4" Replacement Velbuna Composition Conduit Body Gasket.....	73.70	27.36	
26 05 33 13-2722	Replacement Neoprene Conduit Body Gasket (26 05 33 13-2688)				
26 05 33 13-2723	EA	1/2" Replacement Neoprene Conduit Body Gasket.....	14.15	4.83	
26 05 33 13-2724	EA	3/4" Replacement Neoprene Conduit Body Gasket.....	15.77	5.63	
26 05 33 13-2725	EA	1" Replacement Neoprene Conduit Body Gasket.....	20.68	7.24	
26 05 33 13-2726	EA	1-1/4" Replacement Neoprene Conduit Body Gasket.....	25.32	8.85	
26 05 33 13-2727	EA	1-1/2" Replacement Neoprene Conduit Body Gasket.....	28.54	10.47	
26 05 33 13-2728	EA	2" Replacement Neoprene Conduit Body Gasket.....	32.89	12.07	
26 05 33 13-2729	EA	2-1/2" Replacement Neoprene Conduit Body Gasket.....	44.53	13.68	
26 05 33 13-2730	EA	3" Replacement Neoprene Conduit Body Gasket.....	56.79	19.32	
26 05 33 13-2731	EA	3-1/2" Replacement Neoprene Conduit Body Gasket.....	64.49	21.72	
26 05 33 13-2732	EA	4" Replacement Neoprene Conduit Body Gasket.....	75.64	27.36	
26 05 33 13-2733	Cutting Knockouts In-Place Metal Boxes Or Enclosures (26 05 33 13-0058)				
Note: For use when connecting conduit to an existing in-place system.					
26 05 33 13-2734	EA	1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	20.51		
		For Work In Restricted Working Space, Add	6.15		
26 05 33 13-2735	EA	3/4", Cutting Knockouts In-Place Metal Boxes Or Enclosures	23.08		
		For Work In Restricted Working Space, Add	6.92		
26 05 33 13-2736	EA	1", Cutting Knockouts In-Place Metal Boxes Or Enclosures	27.16		
		For Work In Restricted Working Space, Add	8.15		
26 05 33 13-2737	EA	1-1/4", Cutting Knockouts In-Place Metal Boxes Or Enclosures	30.15		
		For Work In Restricted Working Space, Add	9.05		
26 05 33 13-2738	EA	1-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	33.94		
		For Work In Restricted Working Space, Add	10.18		
26 05 33 13-2739	EA	2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	40.19		
		For Work In Restricted Working Space, Add	12.06		
26 05 33 13-2740	EA	2-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	47.52		
		For Work In Restricted Working Space, Add	14.26		
26 05 33 13-2741	EA	3", Cutting Knockouts In-Place Metal Boxes Or Enclosures	54.31		
		For Work In Restricted Working Space, Add	16.29		
26 05 33 13-2742	EA	3-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures	61.09		
		For Work In Restricted Working Space, Add	18.33		
26 05 33 13-2743	EA	4", Cutting Knockouts In-Place Metal Boxes Or Enclosures	67.89		
		For Work In Restricted Working Space, Add	20.37		
26 05 33 13-2744	Buried Pipe Or Conduit Wrap (26 05 33 13)				
26 05 33 13-2745	All-Weather Corrosion Protection Tape For Pipe Or Conduit (26 05 33 13-2744)				
Note: Priced by the linear feet of pipe or conduit the tape is installed on.					
26 05 33 13-2746	LF	Pipe Or Conduit Wrap For 1/2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	2.87		
26 05 33 13-2747	LF	Pipe Or Conduit Wrap For 3/4" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	3.30		
26 05 33 13-2748	LF	Pipe Or Conduit Wrap For 1" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	3.82		
26 05 33 13-2749	LF	Pipe Or Conduit Wrap For 1-1/4" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	4.39		
26 05 33 13-2750	LF	Pipe Or Conduit Wrap For 1-1/2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	5.00		
26 05 33 13-2751	LF	Pipe Or Conduit Wrap For 2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	6.00		
26 05 33 13-2752	LF	Pipe Or Conduit Wrap For 2-1/2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	6.66		
26 05 33 13-2753	LF	Pipe Or Conduit Wrap For 3" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	7.34		
26 05 33 13-2754	LF	Pipe Or Conduit Wrap For 4" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	9.13		
26 05 33 13-2755	LF	Pipe Or Conduit Wrap For 5" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	10.55		
26 05 33 13-2756	LF	Pipe Or Conduit Wrap For 6" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50)	11.96		
26 05 33 13-2757	LF	Pipe Or Conduit Wrap For 1/2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	2.89		
26 05 33 13-2758	LF	Pipe Or Conduit Wrap For 3/4" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	3.43		
26 05 33 13-2759	LF	Pipe Or Conduit Wrap For 1" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	3.99		
26 05 33 13-2760	LF	Pipe Or Conduit Wrap For 1-1/4" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	4.61		
26 05 33 13-2761	LF	Pipe Or Conduit Wrap For 1-1/2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	5.28		
26 05 33 13-2762	LF	Pipe Or Conduit Wrap For 2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	6.39		
26 05 33 13-2763	LF	Pipe Or Conduit Wrap For 2-1/2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	7.27		
26 05 33 13-2764	LF	Pipe Or Conduit Wrap For 3" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	8.23		
26 05 33 13-2765	LF	Pipe Or Conduit Wrap For 4" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	10.33		
26 05 33 13-2766	LF	Pipe Or Conduit Wrap For 5" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	12.05		
26 05 33 13-2767	LF	Pipe Or Conduit Wrap For 6" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51)	13.76		
26 05 33 16	Boxes for Electrical Systems (26 05 33)				
See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.					

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT
 UNIT COST
 DEMOLITION
 UNIT COST

26 05 33 16-0001	Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)			
	Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0128 for steel box/switch assemblies.			
26 05 33 16-0002	4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)			
26 05 33 16-0003	EA	1-1/2" Depth, 4" Square Steel Box.....	43.21	20.32
		For Stud Bracket, Add.....	0.63	
26 05 33 16-0004	EA	2-1/8" Depth, 4" Square Steel Box.....	44.38	20.32
		For Stud Bracket, Add.....	1.14	
26 05 33 16-0005	EA	3-1/2" Depth, 4" Square Steel Box.....	48.40	20.32
		For Stud Bracket, Add.....	1.24	
26 05 33 16-0006	EA	1-1/2" Depth, 4" Square Steel Extension Ring.....	32.82	13.55
26 05 33 16-0007	EA	2-1/8" Depth, 4" Square Steel Extension Ring.....	28.76	13.55
26 05 33 16-0008	EA	1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	14.78	6.77
26 05 33 16-0009	EA	5/8" Depth, 1 Gang, 4" Square Steel Mud Ring.....	14.96	6.77
26 05 33 16-0010	EA	3/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	15.10	6.77
26 05 33 16-0011	EA	1" Depth, 1 Gang, 4" Square Steel Mud Ring.....	15.53	6.77
26 05 33 16-0012	EA	1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	15.66	6.77
26 05 33 16-0013	EA	1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	17.05	6.77
26 05 33 16-0014	EA	1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	15.30	6.77
26 05 33 16-0015	EA	5/8" Depth, 2 Gang, 4" Square Steel Mud Ring.....	15.44	6.77
26 05 33 16-0016	EA	3/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	15.60	6.77
26 05 33 16-0017	EA	1" Depth, 2 Gang, 4" Square Steel Mud Ring.....	17.02	6.77
26 05 33 16-0018	EA	1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	17.32	6.77
26 05 33 16-0019	EA	1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	19.12	6.77
26 05 33 16-0020	EA	3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	16.00	6.77
26 05 33 16-0021	EA	1" Depth, Fixture Cover, 4" Square Mud Rings.....	17.14	6.77
26 05 33 16-0022	EA	One Toggle Switch, 4" Square Steel Exposed Work Cover.....	15.28	6.77
26 05 33 16-0023	EA	Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	15.39	6.77
26 05 33 16-0024	EA	One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	15.26	6.77
26 05 33 16-0025	EA	Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	15.56	6.77
26 05 33 16-0026	EA	One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	15.82	6.77
26 05 33 16-0027	EA	One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	19.00	6.77
26 05 33 16-0028	EA	One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.77	6.77
26 05 33 16-0029	EA	Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	19.00	6.77
26 05 33 16-0030	EA	One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.77	6.77
26 05 33 16-0031	EA	One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	16.52	6.77
26 05 33 16-0032	EA	One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	19.00	6.77
26 05 33 16-0033	EA	One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	19.00	6.77
26 05 33 16-0034	EA	Flat, 4" Square Steel Exposed Work Cover.....	14.37	6.77
26 05 33 16-0035	4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)			
26 05 33 16-0036	EA	1-1/2" Depth, 4-11/16" Square Steel Box.....	47.54	20.32
26 05 33 16-0037	EA	2-1/8" Depth, 4-11/16" Square Steel Box.....	44.90	20.32
		For Stud Bracket, Add.....	0.59	
26 05 33 16-0038	EA	3-1/4" Depth, 4-11/16" Square Steel Box.....	58.18	20.32
26 05 33 16-0039	EA	1-1/2" Depth, 4-11/16" Square Extension Ring.....	33.93	13.55
26 05 33 16-0040	EA	2-1/8" Depth, 4-11/16" Square Extension Ring.....	34.58	13.55
26 05 33 16-0041	EA	1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	17.42	6.77
26 05 33 16-0042	EA	5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	17.45	6.77
26 05 33 16-0043	EA	3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	18.58	6.77
26 05 33 16-0044	EA	1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	18.13	6.77
26 05 33 16-0045	EA	1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	18.03	6.77
26 05 33 16-0046	EA	1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	22.72	6.77
26 05 33 16-0047	EA	1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	18.32	6.77
26 05 33 16-0048	EA	5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	18.56	6.77
26 05 33 16-0049	EA	3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	18.58	6.77
26 05 33 16-0050	EA	1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	20.24	6.77
26 05 33 16-0051	EA	1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	20.59	6.77
26 05 33 16-0052	EA	1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.60	6.77
26 05 33 16-0053	EA	1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	18.10	6.77
26 05 33 16-0054	EA	5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	18.22	6.77
26 05 33 16-0055	EA	One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	21.33	6.77
26 05 33 16-0056	EA	Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	22.21	6.77
26 05 33 16-0057	EA	One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	21.07	6.77
26 05 33 16-0058	EA	Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....	20.13	6.77
26 05 33 16-0059	EA	One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	23.30	6.77
26 05 33 16-0060	EA	One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	22.20	6.77
26 05 33 16-0061	EA	One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	22.20	6.77
26 05 33 16-0062	EA	One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	22.20	6.77
26 05 33 16-0063	EA	Flat, 4-11/16" Square Steel Exposed Work Cover.....	15.09	6.77
26 05 33 16-0064	Steel Square Box Brackets (26 05 33 16-0001)			
26 05 33 16-0065	EA	16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	21.54	10.18
26 05 33 16-0066	EA	Single Box Bracket, One 4" Or 4-11/16" Square Box.....	15.41	6.78
26 05 33 16-0067	EA	16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....	24.36	10.18
26 05 33 16-0068	EA	24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....	25.81	10.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0069 4" Octagon Steel Boxes And Covers (26 05 33 16-0001)		
26 05 33 16-0070 EA 1-1/2" Depth, 4" Steel Octagon Box.....	35.98	16.93
For Stud Bracket, Add	1.53	
26 05 33 16-0071 EA 2-1/8" Depth, 4" Steel Octagon Box.....	37.00	16.93
26 05 33 16-0072 EA Flat, 4" Octagon Steel Exposed Work Cover	14.31	6.77
26 05 33 16-0073 4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)		
Note: Placed in concrete slabs or walls.		
26 05 33 16-0074 EA 2" Depth, 4" Steel Octagonal Concrete Ring	58.81	
26 05 33 16-0075 EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring	62.29	
26 05 33 16-0076 EA 3" Depth, 4" Steel Octagonal Concrete Ring	65.19	
26 05 33 16-0077 EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring	68.03	
26 05 33 16-0078 EA 4" Depth, 4" Steel Octagonal Concrete Ring	73.56	
26 05 33 16-0079 EA 5" Depth, 4" Steel Octagonal Concrete Ring	79.27	
26 05 33 16-0080 EA 6" Depth, 4" Steel Octagonal Concrete Ring	83.85	
26 05 33 16-0081 EA Flat, 4" Steel Octagonal Concrete Cover	15.72	6.77
26 05 33 16-0082 4-1/2" Steel Gang Boxes (26 05 33 16-0001)		
26 05 33 16-0083 EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	50.46	16.93
26 05 33 16-0084 EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	55.29	18.29
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	65.68	20.32
26 05 33 16-0086 EA 5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	83.75	22.36
26 05 33 16-0087 EA 6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	120.04	24.38
26 05 33 16-0088 EA 2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	66.26	16.93
26 05 33 16-0089 EA 3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	72.12	18.29
26 05 33 16-0090 EA 4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	94.10	20.32
26 05 33 16-0091 EA 5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	119.09	22.36
26 05 33 16-0092 EA 6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	189.93	24.38
26 05 33 16-0093 EA 2 Device, Gang Box Mud Ring.....	21.77	6.77
26 05 33 16-0094 EA 3 Device, Gang Box Mud Ring.....	22.03	6.77
26 05 33 16-0095 EA 4 Device, Gang Box Mud Ring.....	25.08	6.77
26 05 33 16-0096 EA 5 Device, Gang Box Mud Ring.....	30.31	6.77
26 05 33 16-0097 EA 6 Device, Gang Box Mud Ring.....	41.79	6.77
26 05 33 16-0098 EA 2 Device, Gang Box Flat Cover	19.15	6.77
26 05 33 16-0099 EA 3 Device, Gang Box Flat Cover	22.00	6.77
26 05 33 16-0100 EA 4 Device, Gang Box Flat Cover	25.78	6.77
26 05 33 16-0101 EA 5 Device, Gang Box Flat Cover	30.60	6.77
26 05 33 16-0102 EA 6 Device, Gang Box Flat Cover	42.60	6.77
26 05 33 16-0103 Steel Switch Boxes (26 05 33 16-0001)		
26 05 33 16-0104 EA 2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	37.95	16.93
26 05 33 16-0105 EA 2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	38.39	16.93
26 05 33 16-0106 EA 3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	40.67	16.93
26 05 33 16-0107 EA 2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	45.79	16.93
26 05 33 16-0108 EA 2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	46.24	16.93
26 05 33 16-0109 EA 2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	53.18	16.93
26 05 33 16-0110 4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0111 EA 1-1/2" Deep, 4" x 2" Steel Handy Box.....	35.86	16.93
For Stud Bracket, Add	2.47	
26 05 33 16-0112 EA 1-7/8" Deep, 4" x 2" Steel Handy Box.....	36.34	16.93
For Stud Bracket, Add	1.06	
26 05 33 16-0113 EA 2-1/8" Deep, 4" x 2" Steel Handy Box.....	37.39	16.93
For Stud Bracket, Add	1.45	
26 05 33 16-0114 EA 1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	23.19	10.16
26 05 33 16-0115 EA 1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	22.71	10.16
26 05 33 16-0116 EA GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	7.80	3.39
26 05 33 16-0117 EA 1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	7.89	3.39
26 05 33 16-0118 EA Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	7.45	3.39
26 05 33 16-0119 EA Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	7.48	3.39
26 05 33 16-0120 EA 1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	8.38	3.39
26 05 33 16-0121 EA Flat, 2" x 4" Steel Handy Box Exposed Work Cover	7.48	3.39
26 05 33 16-0122 3-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)		
26 05 33 16-0123 EA 1 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	52.98	23.71
26 05 33 16-0124 EA 2 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	58.51	25.06
26 05 33 16-0125 EA 3 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	66.21	27.10
26 05 33 16-0126 EA 4 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	74.88	29.81
26 05 33 16-0127 Cast Boxes (26 05 33 16)		
Note: For flush or surface mount.		
26 05 33 16-0128 Cast Iron Alloy Boxes (26 05 33 16-0127)		
See CSI section 26 27 26 00-0281 for box covers.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
26 05 33 16-0129	Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.				
26 05 33 16-0130	EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	122.57		40.64	
	Note: One hub.				
26 05 33 16-0131	EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	130.71		47.42	
	Note: One hub.				
26 05 33 16-0132	EA 1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	153.29		57.58	
	Note: One hub.				
26 05 33 16-0133	EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....	151.95		54.19	
	Note: Two hubs.				
26 05 33 16-0134	EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....	196.03		64.35	
	Note: Two hubs.				
26 05 33 16-0135	EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	151.25		54.19	
	Note: Two hubs.				
26 05 33 16-0136	EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	182.17		64.35	
	Note: Two hubs.				
26 05 33 16-0137	EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....	155.71		54.19	
	Note: Two hubs.				
26 05 33 16-0138	EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....	182.24		64.35	
	Note: Two hubs.				
26 05 33 16-0139	EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	151.25		54.19	
	Note: Two hubs.				
26 05 33 16-0140	EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	176.73		64.35	
	Note: Two hubs.				
26 05 33 16-0141	EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box.....	179.08		67.74	
	Note: Three hubs.				
26 05 33 16-0142	EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box.....	211.52		81.29	
	Note: Three hubs.				
26 05 33 16-0143	EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box.....	187.62		67.74	
	Note: Three hubs.				
26 05 33 16-0144	EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box.....	244.11		81.29	
	Note: Three hubs.				
26 05 33 16-0145	EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box.....	193.20		67.74	
	Note: Three hubs.				
26 05 33 16-0146	EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box.....	230.71		81.29	
	Note: Three hubs.				
26 05 33 16-0147	EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box.....	178.35		67.74	
	Note: Three hubs.				
26 05 33 16-0148	EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box.....	234.49		81.29	
	Note: Three hubs.				
26 05 33 16-0149	EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box.....	229.17		81.29	
	Note: Four hubs.				
26 05 33 16-0150	EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box.....	276.42		98.22	
	Note: Four hubs.				
26 05 33 16-0151	Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.				
26 05 33 16-0152	EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box.....	128.87		40.64	
	Note: One hub.				
26 05 33 16-0153	EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box.....	148.18		47.42	
	Note: One hub.				
26 05 33 16-0154	EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box.....	173.44		57.58	
	Note: One hub.				
26 05 33 16-0155	EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box.....	163.46		54.19	
	Note: Two hubs.				
26 05 33 16-0156	EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box.....	188.09		64.35	
	Note: Two hubs.				
26 05 33 16-0157	EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box.....	225.88		77.90	
	Note: Two hubs.				
26 05 33 16-0158	EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box.....	203.78		64.35	
	Note: Two hubs.				
26 05 33 16-0159	EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box.....	262.70		81.29	
	Note: Three hubs.				
26 05 33 16-0160	Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.				
26 05 33 16-0161	EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box.....	149.14		44.03	
	Note: One hub.				
26 05 33 16-0162	EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box.....	164.54		50.80	
	Note: One hub.				
26 05 33 16-0163	EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box.....	190.47		60.96	
	Note: One hub.				
26 05 33 16-0164	EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box.....	179.25		57.58	
	Note: Two hubs.				
26 05 33 16-0165	EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box.....	202.81		67.74	
	Note: Two hubs.				
26 05 33 16-0166	Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.				



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0167	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	168.04	44.03
26 05 33 16-0168	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	182.32	50.80
26 05 33 16-0169	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box Note: Two hubs.	207.70	57.58
26 05 33 16-0170	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box Note: Two hubs.	232.86	67.74
26 05 33 16-0171		Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0281 for box covers.		
26 05 33 16-0172		Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	109.02	33.87
26 05 33 16-0174	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	124.22	40.64
26 05 33 16-0175	EA	1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	136.12	50.80
26 05 33 16-0176	EA	1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box Note: One hub.	101.69	33.87
26 05 33 16-0177	EA	3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box Note: One hub.	129.39	40.64
26 05 33 16-0178	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	136.82	47.42
26 05 33 16-0179	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	164.16	57.58
26 05 33 16-0180	EA	1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	206.39	71.12
26 05 33 16-0181	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	149.57	47.42
26 05 33 16-0182	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	157.95	57.58
26 05 33 16-0183	EA	1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	142.32	47.42
26 05 33 16-0184	EA	3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	162.29	57.58
26 05 33 16-0185	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	137.63	47.42
26 05 33 16-0186	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	162.29	57.58
26 05 33 16-0187	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	126.82	47.42
26 05 33 16-0188	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	173.79	57.58
26 05 33 16-0189	EA	1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	161.38	60.96
26 05 33 16-0190	EA	3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	195.93	74.51
26 05 33 16-0191	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	172.59	60.96
26 05 33 16-0192	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	234.77	74.51
26 05 33 16-0193	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	171.65	60.96
26 05 33 16-0194	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	210.70	74.51
26 05 33 16-0195	EA	3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	214.04	74.51
26 05 33 16-0196	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	209.24	74.51
26 05 33 16-0197	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	255.24	91.45
26 05 33 16-0198		Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0199	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	122.03	33.87
26 05 33 16-0200	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	146.16	40.64
26 05 33 16-0201	EA	1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	166.29	50.80
26 05 33 16-0202	EA	3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	158.04	40.64
26 05 33 16-0203	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	153.64	47.42
26 05 33 16-0204	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	184.81	57.58
26 05 33 16-0205	EA	1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box..... Note: Two hubs.	204.45	71.12
26 05 33 16-0206	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	187.57	57.58

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0207	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box..... Note: Three hubs.	228.04	74.51
26 05 33 16-0208		Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209	EA	1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	147.01	37.26
26 05 33 16-0210	EA	3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	167.89	44.03
26 05 33 16-0211	EA	1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	177.96	54.19
26 05 33 16-0212	EA	1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	182.32	50.80
26 05 33 16-0213	EA	3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	182.86	60.96
26 05 33 16-0214	EA	1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	226.15	74.51
26 05 33 16-0215		Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	146.86	37.26
26 05 33 16-0217	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	169.67	44.03
26 05 33 16-0218	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	186.38	50.80
26 05 33 16-0219	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	210.06	60.96
26 05 33 16-0220	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	186.38	50.80
26 05 33 16-0221	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	210.06	60.96
26 05 33 16-0222		Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0223	EA	1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	195.32	54.19
26 05 33 16-0224	EA	3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	217.95	64.35
26 05 33 16-0225		Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0226	EA	3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	227.53	47.42
26 05 33 16-0227	EA	1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	252.02	57.58
26 05 33 16-0228		Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127) Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229	EA	1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	233.71	54.19
26 05 33 16-0230	EA	3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	291.83	60.96
26 05 33 16-0231	EA	1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	262.76	67.74
26 05 33 16-0232	EA	1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body	258.68	60.96
26 05 33 16-0233	EA	3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA	317.70	67.74
26 05 33 16-0234		Non-Metallic (PVC) Boxes (26 05 33 16) See CSI section 26 27 26 00-0281 for box covers.		
26 05 33 16-0235		Shallow, Single Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0236	EA	1/2" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box Note: One hub.	68.44	28.45
26 05 33 16-0237	EA	3/4" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box Note: One hub.	78.29	33.19
26 05 33 16-0238	EA	1" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box Note: One hub.	89.48	40.31
26 05 33 16-0239	EA	1/2" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	87.77	37.93
26 05 33 16-0240	EA	3/4" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	103.18	45.04
26 05 33 16-0241	EA	1" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	125.13	54.53
26 05 33 16-0242	EA	1/2" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	88.07	37.93
26 05 33 16-0243	EA	3/4" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	102.37	45.04
26 05 33 16-0244	EA	1" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	122.34	54.53



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0245	EA	1/2" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Three hubs.	111.16	47.42
26 05 33 16-0246	EA	3/4" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Three hubs.	126.90	56.90
26 05 33 16-0247	EA	1" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Three hubs.	149.65	68.75
26 05 33 16-0248		Deep, Single Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0249	EA	No Hub, Type FD, Deep, Single Gang Non-Metallic (PVC) Box Note: No hubs.	69.34	28.45
26 05 33 16-0250	EA	1/2" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box Note: One hub.	67.76	28.45
26 05 33 16-0251	EA	3/4" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box Note: One hub.	80.43	33.19
26 05 33 16-0252	EA	1" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box Note: One hub.	90.35	40.31
26 05 33 16-0253	EA	1/2" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	89.54	37.93
26 05 33 16-0254	EA	3/4" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	100.87	45.04
26 05 33 16-0255	EA	1" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	120.62	54.53
26 05 33 16-0256		Shallow, Two Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0257	EA	1/2" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box Note: One hub.	73.65	30.82
26 05 33 16-0258	EA	3/4" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box Note: One hub.	84.39	35.57
26 05 33 16-0259	EA	1" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box Note: One hub.	94.38	42.68
26 05 33 16-0260	EA	1/2" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	90.55	40.31
26 05 33 16-0261	EA	3/4" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	111.75	47.42
26 05 33 16-0262	EA	1" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	132.30	56.90
26 05 33 16-0263	EA	1/2" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	92.64	40.31
26 05 33 16-0264	EA	3/4" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	117.54	47.42
26 05 33 16-0265	EA	1" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	127.66	56.90
26 05 33 16-0266	EA	1/2" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	113.31	49.79
26 05 33 16-0267	EA	3/4" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	148.54	59.28
26 05 33 16-0268	EA	1" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	154.25	71.12
26 05 33 16-0269		Poke Thru Units (26 05 33 16)		
26 05 33 16-0270		Surface Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling. See CSI section 27 11 19 00-0122 for jacks.		
26 05 33 16-0271	EA	Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	569.31	50.80
26 05 33 16-0272	EA	Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black non-metallic cover. Wiremold RC3KTCAL.	363.83	
26 05 33 16-0273	EA	20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC37REC.	51.60	13.55
26 05 33 16-0274	EA	Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC3APTCBK.	61.17	6.77
26 05 33 16-0275	EA	Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	643.48	54.19
26 05 33 16-0276	EA	Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black non- metallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	340.92	
26 05 33 16-0277	EA	Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	88.08	20.32
26 05 33 16-0278	EA	Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4APTCBK.	61.17	6.77
26 05 33 16-0279	EA	Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold ABPLUG4.	177.49	13.55
26 05 33 16-0280	EA	Four Jack RC9AMD Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	509.74	47.42

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0281 EA Abandonment Plate For RC9 Series Communications Poke Thru Unit 42.76	6.77	
Note: Wiremold RC9APTCBK.		
26 05 33 16-0282 EA Eight Jack AMD8 Communications Poke Thru Unit.....507.42	47.42	
Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.		
26 05 33 16-0283 EA Communication Conduit Adapter For Poke Thru Units 59.15	6.77	
Note: Includes two conduit connections for communication systems. Wiremold COM75.		
26 05 33 16-0284 Recessed Poke Thru Units (26 05 33 16-0269)		
Note: Excludes concrete drilling.		
26 05 33 16-0285 Evolution 6AT Poke Thru Units (26 05 33 16-0284)		
Note: Excludes concrete drilling.		
26 05 33 16-0286 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) 984.21	54.19	
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0287 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP).....984.33	54.19	
Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0288 EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC).....938.01	54.19	
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0289 EA Recessed Assembly With Flush Style Cover (Wiremold 6AT).....938.01	54.19	
Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0290 EA Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA).....984.21	54.19	
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0291 EA Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA).....984.21	54.19	
Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0292 EA Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF).....898.90	54.19	
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2" to 1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0293 EA Recessed Assembly With Disposable Plate (Wiremold 6STC).....563.25	50.80	
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.		
26 05 33 16-0294 EA Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV) 604.11	50.80	
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.		
26 05 33 16-0295 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP) 608.16	50.80	
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.		
26 05 33 16-0296 EA 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS).....172.14	27.10	
Note: Non-metallic sleeve attaches to structural decking and maintains 6" to 6-1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0297 EA Surface Style Cover Assembly (Wiremold 6CTC).....396.85	13.55	
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.		
26 05 33 16-0298 EA Flush Style Cover Assembly (Wiremold 6CT).....396.85	13.55	
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.		
26 05 33 16-0299 EA Furniture Feed Cover Assembly (Wiremold 6CFFTC) 329.84	13.55	
Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2" to 1-1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.		
26 05 33 16-0300 EA Tile Shim (Wiremold 6TS).....47.68	3.39	
Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.		
26 05 33 16-0301 EA Device Mounting Plate (Wiremold 6AAP) 23.27	6.77	
Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0302 EA Device Mounting Plate (Wiremold 6ACT8A) 26.90	6.77	
Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0303 EA Device Mounting Plate (Wiremold 6B).....23.16	6.77	
Note: Device plate used to blank off center compartment, when no devices are used.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC).....	23.23	6.77
Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP)	23.07	6.77
Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP)	27.28	6.77
Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A).....	26.99	6.77
Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS).....	27.65	6.77
Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.		
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1)	22.73	6.77
Note: Receptacle opening 1 3/8". For 6" poke-thru units only.		
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2)	22.74	6.77
Note: Receptacle opening 1 9/16". For 6" poke-thru units only.		
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER)	22.43	6.77
Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC).....	22.43	6.77
Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC).....	54.16	10.16
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.		
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B)	20.52	6.77
Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.		
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP)	21.04	6.77
Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.		
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25)	170.76	12.20
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated		
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A)	26.66	6.77
Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.		
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA).....	27.79	6.77
Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.		
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH)	28.58	6.77
Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.		
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA).....	43.84	13.55
Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.		
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA).....	50.19	16.93
Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.		
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA).....	55.39	16.93
Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.		
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA).....	42.08	13.55
Note: One-gang 1 1/4" trade size conduit housing assembly.		
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA).....	27.59	6.77
Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.		
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH)	27.59	6.77
Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.		
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA).....	29.09	6.77
Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.		
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA).....	30.10	6.77
Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.		
26 05 33 16-0328 Evolution 8AT Poke Thru Units (26 05 33 16-0284)		
Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP)	1,291.52	54.19
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP)	1,229.18	54.19
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P)	1,305.64	54.19
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC).....	1,217.44	54.19
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT).....	1,206.32	54.19
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC).....	728.21	50.80
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP).....	816.04	50.80
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS).....	206.41	27.10
Note: Non-metallic sleeve attaches to structural decking and maintains 8" to 8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC).....	429.19	13.55
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.		
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT).....	429.19	13.55
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.		
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS).....	74.35	3.39
Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.		
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B).....	24.05	6.77
Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.		
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP).....	24.19	6.77
Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC).....	24.34	6.77
Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCI's, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A).....	28.24	6.77
Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS).....	34.23	6.77
Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.		
26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST).....	34.18	6.77
Note: Device plate accepts Crestron double-gang decorator style devices.		
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1).....	23.32	6.77
Note: Receptacle opening 1 3/8". For 8" poke-thru units only.		
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2).....	23.61	6.77
Note: Receptacle opening 1 9/16". For 8" poke-thru units only.		
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC).....	23.32	6.77
Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER).....	23.32	6.77
Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP).....	33.69	6.77
Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP).....	28.06	6.77
Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV).....	32.37	6.77
Note: Divider allows for separation of services when required.		
26 05 33 16-0353 EA Bottom Housing Assembly (Wiremold 22CHA).....	43.84	13.55
Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.		

26 05 43 Underground Ducts and Raceways for Electrical Systems (26 05)

Note: Includes warning tape. See CSI section 33 71 19 23-0000 for underground trench ductbank.

26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43)

Note: Rated for 200 pounds per square foot (PSF) Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0002 10" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0003 LF Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	95.04
26 05 43 00-0004 LF Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench	90.91
26 05 43 00-0005 LF Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	132.01
26 05 43 00-0006 LF Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench	126.27
26 05 43 00-0007 EA End Wall, 10" Wide x 15" Deep Pedestrian Trench	64.42
26 05 43 00-0008 EA End Wall, 10" Wide x 24" Deep Pedestrian Trench	76.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0009 LF Lid, Concrete, 10" Wide Pedestrian Trench.....	63.37	
26 05 43 00-0010 20" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0011 LF Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	120.53	
26 05 43 00-0012 LF Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	113.21	
26 05 43 00-0013 LF Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	163.34	
26 05 43 00-0014 LF Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	156.67	
26 05 43 00-0015 EA End Wall, 20" Wide x 15" Deep Pedestrian Trench	80.65	
26 05 43 00-0016 EA End Wall, 20" Wide x 24" Deep Pedestrian Trench	117.51	
26 05 43 00-0017 LF Lid, Concrete, 20" Wide Pedestrian Trench.....	79.24	
26 05 43 00-0018 30" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0019 LF Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	154.03	
26 05 43 00-0020 LF Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	180.83	
26 05 43 00-0021 LF Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	192.71	
26 05 43 00-0022 LF Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	185.12	
26 05 43 00-0023 EA End Wall, 30" Wide x 15" Deep Pedestrian Trench	115.76	
26 05 43 00-0024 EA End Wall, 30" Wide x 24" Deep Pedestrian Trench	156.93	
26 05 43 00-0025 LF Lid, Concrete, 30" Wide Pedestrian Trench.....	98.90	
26 05 43 00-0026 40" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0027 LF Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	184.59	
26 05 43 00-0028 LF Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	177.69	
26 05 43 00-0029 LF Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	225.89	
26 05 43 00-0030 LF Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	217.45	
26 05 43 00-0031 EA End Wall, 40" Wide x 15" Deep Pedestrian Trench	148.17	
26 05 43 00-0032 EA End Wall, 40" Wide x 24" Deep Pedestrian Trench	200.64	
26 05 43 00-0033 LF Lid, Concrete, 40" Wide Pedestrian Trench.....	116.93	
26 05 43 00-0034 Precast Concrete Trenches, One Piece Medium Vehicle Trench (26 05 43)		
Note: Rated for 7,000 Lb. Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0035 10" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0036 LF Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench	115.34	
26 05 43 00-0037 LF Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench	109.98	
26 05 43 00-0038 LF Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench	160.17	
26 05 43 00-0039 LF Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench	152.75	
26 05 43 00-0040 EA End Wall, 10" Wide x 15" Deep Medium Vehicle Trench	75.70	
26 05 43 00-0041 EA End Wall, 10" Wide x 24" Deep Medium Vehicle Trench	88.23	
26 05 43 00-0042 LF Lid, Concrete 10" Wide Medium Vehicle Trench	76.90	
26 05 43 00-0043 LF Lid, Galvanized Steel 10" Wide Medium Vehicle Trench	341.14	
26 05 43 00-0044 20" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0045 LF Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench	145.30	
26 05 43 00-0046 LF Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench	135.87	
26 05 43 00-0047 LF Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench	196.01	
26 05 43 00-0048 LF Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench	187.39	
26 05 43 00-0049 EA End Wall, 20" Wide x 15" Deep Medium Vehicle Trench	93.70	
26 05 43 00-0050 EA End Wall, 20" Wide x 24" Deep Medium Vehicle Trench	136.72	
26 05 43 00-0051 LF Lid, Concrete 20" Wide Medium Vehicle Trench	96.16	
26 05 43 00-0052 LF Lid, Galvanized Steel 20" Wide Medium Vehicle Trench	452.39	
26 05 43 00-0053 30" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0054 LF Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench	146.51	
26 05 43 00-0055 LF Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench	175.60	
26 05 43 00-0056 LF Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench	229.89	
26 05 43 00-0057 LF Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench	220.08	
26 05 43 00-0058 EA End Wall, 30" Wide x 15" Deep Medium Vehicle Trench	133.77	
26 05 43 00-0059 EA End Wall, 30" Wide x 24" Deep Medium Vehicle Trench	183.58	
26 05 43 00-0060 LF Lid, Concrete 30" Wide Medium Vehicle Trench	120.33	
26 05 43 00-0061 LF Lid, Galvanized Steel 30" Wide Medium Vehicle Trench	564.74	
26 05 43 00-0062 40" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0063 LF Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench	218.39	
26 05 43 00-0064 LF Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench	209.47	
26 05 43 00-0065 LF Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench	267.34	
26 05 43 00-0066 LF Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench	256.41	
26 05 43 00-0067 EA End Wall, 40" Wide x 15" Deep Medium Vehicle Trench	171.23	
26 05 43 00-0068 EA End Wall, 40" Wide x 24" Deep Medium Vehicle Trench	234.68	
26 05 43 00-0069 LF Lid, Concrete 40" Wide Medium Vehicle Trench	141.70	
26 05 43 00-0070 LF Lid, Galvanized Steel 40" Wide Medium Vehicle Trench	767.77	

26 Electrical**26 05 Common Work Results for Electrical****26 05 43 Underground Ducts and Raceways for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 43 00-0071	Precast Concrete Trenches, One Piece H20 Road Crossing Trench (26 05 43)	
	Note: H20 Rated for 32,000 Lb. Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.	
26 05 43 00-0072	10" Wide H20 Road Crossing Trench (26 05 43 00-0071)	
26 05 43 00-0073	LF Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	249.16
26 05 43 00-0074	LF Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	237.13
26 05 43 00-0075	LF Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	311.31
26 05 43 00-0076	LF Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	296.14
26 05 43 00-0077	LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	239.25
26 05 43 00-0078	LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	227.80
26 05 43 00-0079	LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	301.40
26 05 43 00-0080	LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	286.84
26 05 43 00-0081	EA End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	164.89
26 05 43 00-0082	EA End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	223.21
26 05 43 00-0083	EA End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	149.17
26 05 43 00-0084	EA End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	207.15
26 05 43 00-0085	LF Lid, Concrete 10" Wide Road Crossing Trench	115.07
26 05 43 00-0086	LF Lid, Galvanized Steel 10" Wide Road Crossing Trench	370.18
26 05 43 00-0087		
26 05 43 00-0088	20" Wide H20 Road Crossing Trench (26 05 43 00-0071)	
26 05 43 00-0088	LF Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	264.26
26 05 43 00-0089	LF Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	251.92
26 05 43 00-0090	LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	349.65
26 05 43 00-0091	LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	333.14
26 05 43 00-0092	LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	264.26
26 05 43 00-0093	LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	251.92
26 05 43 00-0094	LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	339.74
26 05 43 00-0095	LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	323.85
26 05 43 00-0096	EA End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	235.52
26 05 43 00-0097	EA End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	320.56
26 05 43 00-0098	EA End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	212.62
26 05 43 00-0099	EA End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	297.67
26 05 43 00-0100	LF Lid, Concrete 20" Wide Road Crossing Trench	128.35
26 05 43 00-0101	LF Lid, Galvanized Steel 20" Wide Road Crossing Trench	549.10
26 05 43 00-0102	30" Wide H20 Road Crossing Trench (26 05 43 00-0071)	
26 05 43 00-0103	LF Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	312.19
26 05 43 00-0104	LF Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	298.07
26 05 43 00-0105	LF Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	385.99
26 05 43 00-0106	LF Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	368.46
26 05 43 00-0107	LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	302.28
26 05 43 00-0108	LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	288.74
26 05 43 00-0109	LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	376.08
26 05 43 00-0110	LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	358.82
26 05 43 00-0111	EA End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	314.20
26 05 43 00-0112	EA End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	415.96
26 05 43 00-0113	EA End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	284.13
26 05 43 00-0114	EA End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	385.88
26 05 43 00-0115	LF Lid, Concrete 30" Wide Road Crossing Trench	162.43
26 05 43 00-0116	LF Lid, Galvanized Steel 30" Wide Road Crossing Trench	688.55
26 05 43 00-0117		
26 05 43 00-0118	40" Wide H20 Road Crossing Trench (26 05 43 00-0071)	
26 05 43 00-0118	LF Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	344.76
26 05 43 00-0119	LF Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	329.59
26 05 43 00-0120	LF Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	424.44
26 05 43 00-0121	LF Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	405.40
26 05 43 00-0122	LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	334.85
26 05 43 00-0123	LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	320.29
26 05 43 00-0124	LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	414.53
26 05 43 00-0125	LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	396.07
26 05 43 00-0126	EA End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	389.94
26 05 43 00-0127	EA End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	515.92
26 05 43 00-0128	EA End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	353.03
26 05 43 00-0129	EA End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	479.01
26 05 43 00-0130	LF Lid, Concrete 40" Wide Road Crossing Trench	196.21
26 05 43 00-0131	LF Lid, Galvanized Steel 40" Wide Road Crossing Trench	936.24

26 05 46 Utility Poles for Electrical Systems (26 05)

26 05 46 00-0001	Wood Poles (26 05 46)
26 05 46 00-0002	Wood Pole, Class 3, Penta-Treated To 8 Lb. Retention (26 05 46 00-0001)
	Note: Machine dig and set.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0003 EA 25' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	1,092.93 133.81 76.46 -38.23 -114.70 -152.93	355.24
26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	1,307.43 181.68 103.82 -51.91 -155.72 -207.63	394.14
26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	1,695.17 228.46 130.55 -65.27 -195.82 -261.09	521.29
26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	1,939.29 277.41 158.52 -79.26 -237.78 -317.04	573.36
26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	2,216.01 328.54 187.74 -93.87 -281.61 -375.48	638.59
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	2,521.24 380.76 217.58 -108.79 -326.37 -435.16	716.70
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	2,819.98 435.16 248.66 -124.33 -372.99 -497.32	788.29
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	3,151.18 496.08 283.47 -141.74 -425.21 -566.95	866.85
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	5,155.52 1,143.05 653.17 -326.59 -979.76 -1,306.34	944.80
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	5,661.23 1,277.89 730.22 -365.11 -1,095.33 -1,460.44	1,005.05
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	6,222.74 1,426.52 815.15 -407.58 -1,222.73 -1,630.30	1,073.45
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms.....	30.27	
26 05 46 00-0016 Crossarms (26 05 46) Note: Includes hardware and braces.		
26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	257.24	105.96
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	311.18	105.96
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	326.82	136.23
26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces	663.28	295.15
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces	706.04	295.15
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces	735.21	295.15

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0025		Fiberglass Crossarms (26 05 46 00-0016) Note: Includes hardware.		
26 05 46 00-0026		Single Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0027	EA	Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 Lb.	296.89	
26 05 46 00-0028	EA	Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 Lb.	374.42	63.57
26 05 46 00-0029	EA	Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 Lb.	389.56	68.11
26 05 46 00-0030		Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031	EA	Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 Lb.	466.49	81.74
26 05 46 00-0032		Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033	EA	Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 Lb. Per Conductor.	727.59	104.44
26 05 46 00-0034	EA	Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 Lb. Per Conductor.	862.68	127.14
26 05 46 00-0035	EA	Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.	126.53	18.17
26 05 46 00-0036	EA	Three Phase Equipment Mounting Bracket.	632.69	90.82
26 05 46 00-0037	EA	Fiberglass Bull Horn Crossarm.	500.69	151.36
26 05 46 00-0038		Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039		Epoxy Construction Units, In Place Mounting (26 05 46 00-0038) Note: Includes hardware.		
26 05 46 00-0040	EA	1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.	150.39	
26 05 46 00-0041	EA	1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting.	122.48	
26 05 46 00-0042	EA	Deadend Arms, In Place Mounting.	351.15	
26 05 46 00-0043	EA	1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting.	239.60	
26 05 46 00-0044		Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038) Note: Includes hardware.		
26 05 46 00-0045	EA	1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting.	106.58	
26 05 46 00-0046	EA	1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting.	93.29	
26 05 46 00-0047	EA	Deadend Arms, Grounding Mounting.	321.96	
26 05 46 00-0048		Guying (26 05 46) Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049		Down Guy (26 05 46 00-0048)		
26 05 46 00-0050	EA	Down Guy For 25' To 40' Pole.	1,054.86	423.82
26 05 46 00-0051	EA	Down Guy For 45' To 60' Pole.	1,074.49	423.82
26 05 46 00-0052	EA	Down Guy For 65' To 75' Pole.	1,114.85	423.82
26 05 46 00-0053	EA	Guy Guard, Plastic.	44.00	
26 05 46 00-0054		Head Guy, 50' Spans (26 05 46 00-0048)		
26 05 46 00-0055	EA	Head Guy (50' Span), For 25' To 40' Pole.	1,516.88	650.85
26 05 46 00-0056	EA	Head Guy (50' Span), For 45' To 60' Pole.	1,516.88	650.85
26 05 46 00-0057	EA	Head Guy (50' Span), For 65' To 75' Pole.	1,516.88	650.85
26 05 46 00-0058		Guy Strain Insulators Additional Insulators (26 05 46 00-0048) Note: As required at same material cost and labor.		
26 05 46 00-0059	EA	Guy Strain Insulator.	643.04	317.86
26 05 46 00-0060		Insulators (26 05 46)		
26 05 46 00-0061		Pin Insulator With Pin (26 05 46 00-0060)		
26 05 46 00-0062	EA	5 KV Class 55-3, Pin Insulator With Pin.	202.78	90.82
26 05 46 00-0063	EA	15 KV Class 55-5, Pin Insulator With Pin.	208.42	90.82
26 05 46 00-0064		Suspension Insulator (26 05 46 00-0060) Note: Includes clevis and strain clamp.		
26 05 46 00-0065	EA	5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.	257.16	121.09
26 05 46 00-0066	EA	15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp.	272.49	121.09
26 05 46 00-0067	EA	25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.	381.62	151.36
26 05 46 00-0068	EA	50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.	603.61	242.18
26 05 46 00-0069		Spool Insulator With Clevis (26 05 46 00-0060)		
26 05 46 00-0070	EA	5 KV Class 53-5, Spool Insulator With Clevis.	85.61	37.84
26 05 46 00-0071	EA	15 KV Class, Spool Insulator With Clevis.	274.29	136.23
26 05 46 00-0072	EA	25 KV Class, Spool Insulator With Clevis.	355.79	136.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0073 Secondary Rack (26 05 46 00-0060)		
26 05 46 00-0074 EA 1 Spool Secondary Rack	170.14	75.68
26 05 46 00-0075 EA 2 Spool Secondary Rack	175.09	96.57
26 05 46 00-0076 EA 3 Spool Secondary Rack	262.20	128.65
26 05 46 00-0077 EA 4 Spool Secondary Rack	294.76	128.65
26 05 46 00-0078 Outdoor Load Break Switches (26 05 46)		
Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
26 05 46 00-0079 7.2 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0080 EA 600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,944.82	514.63
26 05 46 00-0081 EA 1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	11,760.65	514.63
26 05 46 00-0082 EA 1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,527.25	870.33
26 05 46 00-0083 EA 2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,840.23	870.33
26 05 46 00-0084 14.4 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0085 EA 600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	7,295.10	514.63
26 05 46 00-0086 EA 1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	13,927.67	514.63
26 05 46 00-0087 EA 1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,527.25	870.33
26 05 46 00-0088 EA 2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	17,840.23	870.33
26 05 46 00-0089 23 KV Outdoor Load Break Switches (26 05 46 00-0078)		
26 05 46 00-0090 EA 600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	8,035.31	597.88
26 05 46 00-0091 EA 1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,232.64	597.88
26 05 46 00-0092 EA 1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	18,278.96	1,029.26
26 05 46 00-0093 EA 2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	18,602.19	1,029.26
26 05 46 00-0094 Square Distribution Poles (26 05 46)		
26 05 46 00-0095 Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0096 EA 20', Steel Taped Shaft Distribution Pole	4,042.92	643.29
26 05 46 00-0097 EA 25', Steel Taped Shaft Distribution Pole	4,520.55	681.12
26 05 46 00-0098 EA 30', Steel Taped Shaft Distribution Pole	4,903.26	756.81
26 05 46 00-0099 EA 35', Steel Taped Shaft Distribution Pole	5,426.16	832.49
26 05 46 00-0100 EA 40', Steel Taped Shaft Distribution Pole	7,376.60	908.17
26 05 46 00-0101 Square Prestressed Concrete Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0102 EA 30', Prestressed Concrete Square Pole For Distribution	5,664.17	1,140.16
26 05 46 00-0103 EA 35', Prestressed Concrete Square Pole For Distribution	6,398.19	1,250.49
26 05 46 00-0104 EA 40', Prestressed Concrete Square Pole For Distribution	7,507.55	1,397.61
26 05 46 00-0105 EA 45', Prestressed Concrete Square Pole For Distribution	8,459.39	1,544.73
26 05 46 00-0106 EA 50', Prestressed Concrete Square Pole For Distribution	6,396.17	1,875.74
26 05 46 00-0107 EA 55', Prestressed Concrete Square Pole For Distribution	11,931.12	2,206.75
26 05 46 00-0108 EA 60', Prestressed Concrete Square Pole For Distribution	14,076.77	2,501.00
26 05 46 00-0109 EA 65', Prestressed Concrete Square Pole For Distribution	16,991.57	3,089.46
26 05 46 00-0110 EA 70', Prestressed Concrete Square Pole For Distribution	19,032.50	3,383.69
26 05 46 00-0111 Aluminum Tapered Poles (26 05 46)		
26 05 46 00-0112 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0111)		
26 05 46 00-0113 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution	3,894.35	567.61
26 05 46 00-0114 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution	5,454.21	605.45
26 05 46 00-0115 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution	6,274.23	681.12
26 05 46 00-0116 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution	7,448.75	756.81
26 05 46 00-0117 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution	11,311.82	832.49
26 05 46 00-0118 Steel Service Poles Distribution (26 05 46)		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0119 Round Tapered Pole (26 05 46 00-0118)		
26 05 46 00-0120 EA 40', Galvanized Steel Tapered Round Pole For Distribution	5,428.30	908.17
26 05 46 00-0121 EA 45', Galvanized Steel Tapered Round Pole For Distribution	6,308.64	983.85
26 05 46 00-0122 EA 50', Galvanized Steel Tapered Round Pole For Distribution	6,721.48	1,059.53
26 05 46 00-0123 EA 55', Galvanized Steel Tapered Round Pole For Distribution	7,915.85	1,210.90
26 05 46 00-0124 EA 60', Galvanized Steel Tapered Round Pole For Distribution	9,791.01	1,362.26
26 05 46 00-0125 EA 65', Galvanized Steel Tapered Round Pole For Distribution	11,562.61	1,728.63
26 05 46 00-0126 EA 70', Galvanized Steel Tapered Round Pole For Distribution	12,870.59	1,961.07
26 05 46 00-0127 EA 75', Galvanized Steel Tapered Round Pole For Distribution	14,225.55	2,206.75
26 05 46 00-0128 EA 80', Galvanized Steel Tapered Round Pole For Distribution	15,961.50	2,501.00
26 05 46 00-0129 EA 85', Galvanized Steel Tapered Round Pole For Distribution	17,057.10	2,648.11
26 05 46 00-0130 EA 90', Galvanized Steel Tapered Round Pole For Distribution	18,507.43	2,942.34
26 05 46 00-0131 EA 95', Galvanized Steel Tapered Round Pole For Distribution	20,365.39	3,310.13
26 05 46 00-0132 EA 100', Galvanized Steel Tapered Round Pole For Distribution	22,474.23	3,751.49

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0133	12 Sided Tapered (26 05 46 00-0118)			
26 05 46 00-0134	EA	40', Galvanized Steel Tapered 12 Sided Pole For Distribution	9,300.18	908.17
26 05 46 00-0135	EA	45', Galvanized Steel Tapered 12 Sided Pole For Distribution	10,264.40	983.85
26 05 46 00-0136	EA	50', Galvanized Steel Tapered 12 Sided Pole For Distribution	11,367.92	1,059.53
26 05 46 00-0137	EA	55', Galvanized Steel Tapered 12 Sided Pole For Distribution	12,488.95	1,210.90
26 05 46 00-0138	EA	60', Galvanized Steel Tapered 12 Sided Pole For Distribution	16,603.62	1,362.26
26 05 46 00-0139	EA	65', Galvanized Steel Tapered 12 Sided Pole For Distribution	18,417.12	1,728.63
26 05 46 00-0140	EA	70', Galvanized Steel Tapered 12 Sided Pole For Distribution	21,336.64	1,961.07
26 05 46 00-0141	EA	75', Galvanized Steel Tapered 12 Sided Pole For Distribution	22,958.44	2,206.75
26 05 46 00-0142	EA	80', Galvanized Steel Tapered 12 Sided Pole For Distribution	24,683.44	2,501.00
26 05 46 00-0143	EA	85', Galvanized Steel Tapered 12 Sided Pole For Distribution	26,151.11	2,648.11
26 05 46 00-0144	EA	90', Galvanized Steel Tapered 12 Sided Pole For Distribution	29,689.10	2,942.34
26 05 46 00-0145	EA	95', Galvanized Steel Tapered 12 Sided Pole For Distribution	31,515.73	3,310.13
26 05 46 00-0146	EA	100', Galvanized Steel Tapered 12 Sided Pole For Distribution	33,697.78	3,751.49
26 05 46 00-0147	EA	105', Galvanized Steel Tapered 12 Sided Pole For Distribution	36,032.56	4,192.84
26 05 46 00-0148	Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0118)			
26 05 46 00-0149	EA	Ladder Clips.....	28.71	
26 05 46 00-0150	EA	Coal Tar Epoxy Coating From Base To 1' Above Ground Line	215.46	
26 05 46 00-0151	EA	Ground Sleeve-2' At Ground Line.....	216.71	
26 05 46 00-0152	Arms With Baseplates And Endplates (26 05 46 00-0118)			
26 05 46 00-0153	EA	4' Arm With Baseplate And Endplate	873.59	151.36
26 05 46 00-0154	EA	5' Arm With Baseplate And Endplate	951.00	151.36
26 05 46 00-0155	EA	6' Arm With Baseplate And Endplate	1,180.95	227.04
26 05 46 00-0156	EA	7' Arm With Baseplate And Endplate	1,248.65	227.04
26 05 46 00-0157	EA	8' Arm With Baseplate And Endplate	1,476.29	302.72
26 05 46 00-0158	EA	9' Arm With Baseplate And Endplate	1,553.65	302.72
26 05 46 00-0159	EA	10' Arm With Baseplate And Endplate	2,063.06	378.40
26 05 46 00-0160	EA	11' Arm With Baseplate And Endplate	2,149.91	378.40
26 05 46 00-0161	Standard Vangs Load Bearing At Any Angle (26 05 46 00-0118)			
26 05 46 00-0162	EA	15,000 Lb. Standard Vangs Load Bearing At Any Angle	366.56	151.36
26 05 46 00-0163	EA	30,000 Lb. Standard Vangs Load Bearing At Any Angle	413.98	151.36
26 05 46 00-0164	EA	45,000 Lb. Standard Vangs Load Bearing At Any Angle	478.83	151.36
26 05 46 00-0165	Armless Construction Brackets (26 05 46 00-0118)			
26 05 46 00-0166	Verticals Insulator And Equipment Bracket (26 05 46 00-0165)			
26 05 46 00-0167	EA	7" 1 Position Vertical Insulation And Equipment Bracket.....	374.29	151.36
26 05 46 00-0168	EA	12" 1 Position Vertical Insulation And Equipment Bracket	404.23	151.36
26 05 46 00-0169	EA	12" 3 Position Vertical Insulation And Equipment Bracket	452.88	151.36
26 05 46 00-0170	EA	18" 1 Position Vertical Insulation And Equipment Bracket	635.98	227.04
26 05 46 00-0171	EA	18" 3 Position Vertical Insulation And Equipment Bracket	664.39	227.04
26 05 46 00-0172	Horizontal And Multiple Insulator Brackets (26 05 46 00-0165)			
26 05 46 00-0173	EA	Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets	350.97	151.36
26 05 46 00-0174	EA	Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets	413.89	151.36
26 05 46 00-0175	EA	Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets	605.51	227.04
26 05 46 00-0176	EA	Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets	754.00	227.04
26 05 46 00-0177	EA	Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets	967.33	302.72
26 05 46 00-0178	EA	Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets	1,046.14	302.72
26 05 46 00-0179	Pole Top Bracket And Pins (26 05 46 00-0165)			
26 05 46 00-0180	EA	Pole Top Pin - 5".....	360.11	151.36
26 05 46 00-0181	EA	Pole Top Bracket - 5".....	375.38	151.36
26 05 46 00-0182	Angle Pins (26 05 46 00-0165)			
26 05 46 00-0183	EA	Angle Pin - 25 Degree, 6".....	358.04	151.36
26 05 46 00-0184	EA	Angle Pin - 25 Degree, 7 1/4"	407.66	151.36
26 05 46 00-0185	Static And Neutral Wire Brackets (26 05 46 00-0165)			
26 05 46 00-0186	EA	Neutral Wire Extension Bracket.....	379.63	151.36
26 05 46 00-0187	EA	Static Wire Support Bracket.....	385.14	151.36
26 05 46 00-0188	Cutout, Arrestor And Terminator Brackets (26 05 46 00-0165)			
26 05 46 00-0189	EA	Cutout And Arrestor, With Mounting Bracket	345.46	151.36
26 05 46 00-0190	EA	Equipment Mounting T Bracket.....	373.44	151.36



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0191	EA		15 KV Cutout	501.47	
26 05 46 00-0192	EA		9/10 KV Arrestor	462.12	151.36
26 05 46 00-0193			Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0165)		
26 05 46 00-0194	EA		Parallel Cable Spacer	419.21	151.36
26 05 46 00-0195	EA		Conduit Standoff Support Bracket	401.61	151.36
26 05 46 00-0196	EA		Three Transformer Pole Mounted Cluster Bracket	1,011.92	151.36
26 05 46 00-0197			15 KV, 200 Amperes, Solenoid Operated High Voltage Switch (26 05 46 00-0165)		
			Note: Includes pole mounting bracket.		
26 05 46 00-0198	EA		15 KV, 1 Phase, Solenoid Switch With Pole Bracket	2,490.49	378.40
26 05 46 00-0199			Octagonal Tapered (26 05 46 00-0118)		
26 05 46 00-0200	EA		40', Galvanized Steel Tapered Octagonal Pole For Distribution	9,587.95	908.17
26 05 46 00-0201	EA		45', Galvanized Steel Tapered Octagonal Pole For Distribution	10,583.58	983.85
26 05 46 00-0202	EA		50', Galvanized Steel Tapered Octagonal Pole For Distribution	11,723.73	1,059.53
26 05 46 00-0203	EA		55', Galvanized Steel Tapered Octagonal Pole For Distribution	12,876.15	1,286.57
26 05 46 00-0204	EA		60', Galvanized Steel Tapered Octagonal Pole For Distribution	17,137.32	1,362.26
26 05 46 00-0205	EA		65', Galvanized Steel Tapered Octagonal Pole For Distribution	18,992.68	1,728.63
26 05 46 00-0206	EA		70', Galvanized Steel Tapered Octagonal Pole For Distribution	22,006.39	1,838.97
26 05 46 00-0207	EA		75', Galvanized Steel Tapered Octagonal Pole For Distribution	23,672.67	2,206.75
26 05 46 00-0208	EA		80', Galvanized Steel Tapered Octagonal Pole For Distribution	25,439.51	2,353.87
26 05 46 00-0209	EA		85', Galvanized Steel Tapered Octagonal Pole For Distribution	26,951.67	2,648.11
26 05 46 00-0210	EA		90', Galvanized Steel Tapered Octagonal Pole For Distribution	30,602.16	2,795.23
26 05 46 00-0211	EA		95', Galvanized Steel Tapered Octagonal Pole For Distribution	32,475.89	3,310.13
26 05 46 00-0212	EA		100', Galvanized Steel Tapered Octagonal Pole For Distribution	34,705.02	3,530.82
26 05 46 00-0213	EA		105', Galvanized Steel Tapered Octagonal Pole For Distribution	37,092.13	3,972.16
26 05 46 00-0214			Removal And Relocation Of Steel Service Poles (26 05 46 00-0118)		
26 05 46 00-0215	LF		Removal And Relocation Of Steel Service Poles With Arms Up To 60'	52.97	
26 05 46 00-0216			Special Steel Bases For Poles (26 05 46 00-0118)		
26 05 46 00-0217	EA		Spin-In Steel Base For Poles	308.54	
26 05 46 00-0218	EA		Series 3, 25' Pole And less	341.70	75.68
26 05 46 00-0219	EA		Series 4, 40' Pole And less	406.71	87.03
26 05 46 00-0220	EA		Series 5, 50' Pole And less	464.15	94.60
26 05 53			Identification for Electrical Systems (26 05)		
26 05 53 00-0001			Conduit Markers Pressure-Sensitive (26 05 53)		
			Note: Stick-on, includes arrow tape.		
26 05 53 00-0002	EA		1/2" Outside Diameter Pressure Sensitive Marker Stick-on	15.34	
26 05 53 00-0003	EA		3/4" Outside Diameter Pressure Sensitive Marker Stick-on	16.01	
26 05 53 00-0004	EA		1" Outside Diameter Pressure Sensitive Marker Stick-on	17.38	
26 05 53 00-0005	EA		1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on	17.65	
26 05 53 00-0006	EA		1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	17.92	
26 05 53 00-0007	EA		2" Outside Diameter Pressure Sensitive Marker Stick-on	18.33	
26 05 53 00-0008	EA		2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	21.56	
26 05 53 00-0009	EA		3" Outside Diameter Pressure Sensitive Marker Stick-on	22.09	
26 05 53 00-0010	EA		3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	22.50	
26 05 53 00-0011	EA		4" Outside Diameter Pressure Sensitive Marker Stick-on	22.91	
26 05 53 00-0012	EA		4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	23.77	
26 05 53 00-0013	EA		5" Outside Diameter Pressure Sensitive Marker Stick-on	24.67	
26 05 53 00-0014	EA		6" Outside Diameter Pressure Sensitive Marker Stick-on	25.48	
26 05 53 00-0015	EA		7" Outside Diameter Pressure Sensitive Marker Stick-on	26.27	
26 05 53 00-0016	EA		8" Outside Diameter Pressure Sensitive Marker Stick-on	28.88	
26 05 53 00-0017	EA		10" Outside Diameter Pressure Sensitive Marker Stick-on	30.37	
26 05 53 00-0018			Labeling Existing Electrical Wires (26 05 53)		
			Note: Self-adhesive vinyl coated white cloth		
26 05 53 00-0019	EA		Labeling Existing Wire	4.20	
26 05 53 00-0020			Equipment Labeling (26 05 53)		
26 05 53 00-0021	EA		Label Both Ends Of One 4 Pair Cable	15.23	
26 05 53 00-0022	EA		Label single gang face plate (2 labels required)	14.32	
26 05 53 00-0023	EA		Label two gang face plate (4 labels required)	20.61	
26 05 53 00-0024	EA		Label both ends of a Siamese (dual 4 Pair cable)	15.23	

26 05 83 Wiring Connections (26 05)

26 05 83 00-0001 Tape Wrapped Compression Connectors (26 05 83)

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0002 EA #6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	18.39	6.10
26 05 83 00-0003 EA #4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	20.18	6.77
26 05 83 00-0004 EA #2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	21.89	7.45
26 05 83 00-0005 EA 1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	25.39	8.12
26 05 83 00-0006 EA 2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	27.31	8.81
26 05 83 00-0007 EA 3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	30.31	9.49
26 05 83 00-0008 EA 4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	32.50	10.16
26 05 83 00-0009 EA 250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	35.42	10.84
26 05 83 00-0010 EA 300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	39.18	12.20
26 05 83 00-0011 EA 350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	41.10	12.87
26 05 83 00-0012 EA 400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	45.84	13.55
26 05 83 00-0013 EA 500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	49.95	14.22
26 05 83 00-0014 EA 750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	55.86	15.58
26 05 83 00-0015 EA 1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	64.86	17.61
26 05 83 00-0016 One Hole Compression Lugs (26 05 83)		
26 05 83 00-0017 EA #22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	23.54	17.61
26 05 83 00-0018 EA #16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	23.72	17.61
26 05 83 00-0019 EA #12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	26.86	18.97
26 05 83 00-0020 EA #8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	33.43	21.00
26 05 83 00-0021 EA #6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	46.85	27.10
26 05 83 00-0022 EA #4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	54.73	27.10
26 05 83 00-0023 EA #2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	62.99	27.10
26 05 83 00-0024 EA 1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	77.45	40.64
26 05 83 00-0025 EA 2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	90.66	40.64
26 05 83 00-0026 EA 3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	106.05	40.64
26 05 83 00-0027 EA 4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	127.81	54.19
26 05 83 00-0028 EA 250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	151.55	81.29
26 05 83 00-0029 EA 300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	173.39	81.29
26 05 83 00-0030 EA 350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	186.31	81.29
26 05 83 00-0031 EA 400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	203.04	94.83
26 05 83 00-0032 EA 500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	222.02	94.83
26 05 83 00-0033 EA 750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	241.22	108.38
26 05 83 00-0034 EA 1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	284.23	121.93
26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)		
26 05 83 00-0036 EA #8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	48.17	23.03
26 05 83 00-0037 EA #6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	51.79	24.52
26 05 83 00-0038 EA #4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	54.52	24.52
26 05 83 00-0039 EA #2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	62.74	28.18
26 05 83 00-0040 EA 1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	77.19	35.22
26 05 83 00-0041 EA 2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	90.39	41.86
26 05 83 00-0042 EA 3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	105.75	49.05
26 05 83 00-0043 EA 4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	127.47	59.48
26 05 83 00-0044 EA 250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	151.16	70.58
26 05 83 00-0045 EA 300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	172.93	80.61
26 05 83 00-0046 EA 350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	185.83	86.84
26 05 83 00-0047 EA 400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	202.47	94.02
26 05 83 00-0048 EA 500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	221.39	102.69
26 05 83 00-0049 EA 750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	242.10	111.36
26 05 83 00-0050 EA 1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	300.20	135.48
26 05 83 00-0051 Tape Wrapped Split Bolt Connectors (26 05 83)		
26 05 83 00-0052 EA #8 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	71.63	54.19
26 05 83 00-0053 EA #6 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	78.76	58.25
26 05 83 00-0054 EA #4 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	89.81	60.96
26 05 83 00-0055 EA #2 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	104.45	67.74
26 05 83 00-0056 EA 1/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	123.47	74.51
26 05 83 00-0057 EA 2/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	138.97	81.29
26 05 83 00-0058 EA 3/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	173.91	88.06
26 05 83 00-0059 EA 4/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	186.61	94.83
26 05 83 00-0060 EA 250 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	196.74	101.61
26 05 83 00-0061 EA 300 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	225.26	111.77
26 05 83 00-0062 EA 350 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	253.78	162.57
26 05 83 00-0063 EA 400 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	278.26	135.48
26 05 83 00-0064 EA 500 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	302.73	182.89
26 05 83 00-0065 EA 750 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	337.32	189.67
26 05 83 00-0066 EA 1,000 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	383.49	203.21
26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)		
26 05 83 00-0068 EA #8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	120.38	54.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.45	
26 05 83 00-0069 EA #4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	133.71	54.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.26	
26 05 83 00-0070 EA 1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	184.93	81.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0071	EA		4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	209.64	81.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.11	
26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	251.13	101.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.58	
26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	351.48	135.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.68	
26 05 83 00-0074 Terminal Blocks (26 05 83)					
			Note: Labor excludes wire termination.		
26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	1,212.38	501.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	301.06	
26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block	325.27	67.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.13	
26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block	360.36	67.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.56	
26 05 83 00-0078 Parallel Gutter Tap Or Motor Connection (26 05 83)					
26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	48.16	24.52
26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	51.79	24.52
26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	54.52	24.52
26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	62.74	28.18
26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	77.19	35.22
26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	90.39	41.86
26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	105.75	49.05
26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	127.47	59.48
26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	151.15	70.58
26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	172.93	80.61
26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	185.84	86.84
26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	202.47	94.02
26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	221.39	102.69
26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	221.96	102.69
26 05 83 00-0093	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover	48.16	24.52
26 05 83 00-0094	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover	51.79	24.52
26 05 83 00-0095	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover	54.52	24.52
26 05 83 00-0096	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover	62.74	28.18
26 05 83 00-0097	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	77.19	35.22
26 05 83 00-0098	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	90.39	41.86
26 05 83 00-0099	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	105.75	49.05
26 05 83 00-0100	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	127.47	59.48
26 05 83 00-0101	EA		250 MCM Parallel Gutter Tap, Versitap, Insulating Cover	151.15	70.58
26 05 83 00-0102	EA		300 MCM Parallel Gutter Tap, Versitap, Insulating Cover	172.93	80.61
26 05 83 00-0103	EA		350 MCM Parallel Gutter Tap, Versitap, Insulating Cover	185.84	86.84
26 05 83 00-0104	EA		400 MCM Parallel Gutter Tap, Versitap, Insulating Cover	202.47	94.02
26 05 83 00-0105	EA		500 MCM Parallel Gutter Tap, Versitap, Insulating Cover	221.39	102.69
26 05 83 00-0106	EA		750 MCM Parallel Gutter Tap, Versitap, Insulating Cover	221.96	102.69
26 05 83 00-0107 Copper Mechanical Lugs (26 05 83)					
26 05 83 00-0108	EA		#8 Copper Mechanical Lugs	38.93	16.93
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.16	
26 05 83 00-0109	EA		#6 Copper Mechanical Lugs	46.69	20.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.27	
26 05 83 00-0110	EA		#4 Copper Mechanical Lugs	53.94	23.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.23	
26 05 83 00-0111	EA		#2 Copper Mechanical Lugs	70.74	30.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.14	
26 05 83 00-0112	EA		1/0 Copper Mechanical Lugs	95.28	40.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.39	
26 05 83 00-0113	EA		2/0 Copper Mechanical Lugs	113.84	47.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.33	
26 05 83 00-0114	EA		3/0 Copper Mechanical Lugs	133.33	54.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.52	
26 05 83 00-0115	EA		4/0 Copper Mechanical Lugs	151.94	60.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.46	
26 05 83 00-0116	EA		250 MCM Copper Mechanical Lugs.....	174.35	67.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.64	
26 05 83 00-0117	EA		300 MCM Copper Mechanical Lugs.....	196.44	74.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.72	
26 05 83 00-0118	EA		350 MCM Copper Mechanical Lugs.....	218.46	81.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.77	
26 05 83 00-0119	EA		400 MCM Copper Mechanical Lugs.....	240.30	88.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.79	
26 05 83 00-0120	EA		500 MCM Copper Mechanical Lugs.....	262.51	94.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.90	
26 05 83 00-0121	EA		750 MCM Copper Mechanical Lugs.....	297.39	107.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.82	
26 05 83 00-0122	EA		1,000 MCM Copper Mechanical Lugs.....	336.78	121.93
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0123 Gel Connectors (26 05 83)		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit.....	71.98	
Note: Kit contains connector, gel filled cap and cap clamp.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit.....	69.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.89	
26 05 83 00-0126 Other Connections (26 05 83)		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.56	6.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.68	6.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.80	6.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.71	
26 05 83 00-0130 Motor/Equipment Connections And Terminations (26 05 83)		
Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors.		
26 05 83 00-0131 AC Single Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	86.54	33.87
26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	85.91	33.87
26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	100.21	40.64
26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	121.93	50.80
26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.19	50.80
26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.44	50.80
26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	127.60	50.80
26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	161.98	67.74
26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	166.65	67.74
26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	210.98	84.67
26 05 83 00-0142 AC Three Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0143 EA 1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	85.91	33.87
26 05 83 00-0144 EA 3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	100.21	40.64
26 05 83 00-0145 EA 1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	121.93	50.80
26 05 83 00-0146 EA 1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.19	50.80
26 05 83 00-0147 EA 2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.44	50.80
26 05 83 00-0148 EA 3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	127.60	50.80
26 05 83 00-0149 EA 5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	161.98	67.74
26 05 83 00-0150 EA 7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	166.65	67.74
26 05 83 00-0151 EA 10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	210.98	84.67
26 05 83 00-0152 EA 15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	217.29	84.67
26 05 83 00-0153 EA 20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	276.02	101.61
26 05 83 00-0154 EA 25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	285.62	101.61
26 05 83 00-0155 EA 30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	390.83	135.48
26 05 83 00-0156 EA 40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	490.12	169.34
26 05 83 00-0157 EA 50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	576.30	203.21
26 05 83 00-0158 EA 60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	687.68	237.08
26 05 83 00-0159 EA 75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	791.01	270.95
26 05 83 00-0160 EA 100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	980.87	338.69
26 05 83 00-0161 EA 125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,157.34	403.05
26 05 83 00-0162 EA 150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,373.25	470.10
26 05 83 00-0163 EA 200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,944.46	705.02
26 05 83 00-0164 AC Three Phase, 460 Volt (26 05 83 00-0130)		
26 05 83 00-0165 EA 1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	85.91	33.87
26 05 83 00-0166 EA 3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	100.21	40.64
26 05 83 00-0167 EA 1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	121.93	50.80
26 05 83 00-0168 EA 1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.19	50.80
26 05 83 00-0169 EA 2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.44	50.80
26 05 83 00-0170 EA 3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	127.60	50.80
26 05 83 00-0171 EA 5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	161.98	67.74
26 05 83 00-0172 EA 7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	166.65	67.74
26 05 83 00-0173 EA 10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	210.98	84.67
26 05 83 00-0174 EA 15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	217.29	84.67
26 05 83 00-0175 EA 20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	276.03	101.61
26 05 83 00-0176 EA 25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	285.61	101.61
26 05 83 00-0177 EA 30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	390.83	135.48
26 05 83 00-0178 EA 40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	490.54	169.61
26 05 83 00-0179 EA 50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	576.30	203.21
26 05 83 00-0180 EA 60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	687.68	237.08
26 05 83 00-0181 EA 75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	791.01	270.95
26 05 83 00-0182 EA 100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	980.87	338.69
26 05 83 00-0183 EA 125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,157.72	403.19
26 05 83 00-0184 EA 150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,373.77	470.38
26 05 83 00-0185 EA 200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,945.64	705.56



Electrical		26
Common Work Results for Electrical		26 05
Wiring Connections		26 05 83

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0186 AC Single Phase, 120 Volt (26 05 83 00-0130)		
26 05 83 00-0187 EA 1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing	86.54	33.87
26 05 83 00-0188 Motor Moisture Sensor (26 05 83 00-0130)		
26 05 83 00-0189 EA Motor Moisture Sensor Located In Winding	882.25	

26 09 Instrumentation and Control for Electrical Systems (26)

Note: Includes testing of new devices and certification.

26 09 23 Lighting Control Devices (26 09)

26 09 23 00-0001	Lighting Contactors (26 09 23)		
Note: Up to 600 volt.			
26 09 23 00-0002	Electrically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0003	NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0004	2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0005	EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	602.64	108.38
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.03	
26 09 23 00-0006	EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	748.50	121.93
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.16	
26 09 23 00-0007	EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,413.00	189.67
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.80	
26 09 23 00-0008	EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,212.14	257.40
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.45	
26 09 23 00-0009	EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	4,668.91	338.69
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	203.22	
26 09 23 00-0010	3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0011	EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	680.72	121.93
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.16	
26 09 23 00-0012	EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	820.12	135.48
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.29	
26 09 23 00-0013	EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,526.56	216.76
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.06	
26 09 23 00-0014	EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,387.19	284.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.70	
26 09 23 00-0015	EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	5,009.11	372.57
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.54	
26 09 23 00-0016	4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0017	EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	803.99	135.48
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.29	
26 09 23 00-0018	EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	969.13	149.02
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.42	
26 09 23 00-0019	EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,852.15	243.86
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	146.32	
26 09 23 00-0020	EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,864.39	311.59
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	186.96	
26 09 23 00-0021	EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	6,415.83	406.44
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	243.86	
26 09 23 00-0022	NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0023	2-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0024	EA 30 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,222.96	121.93
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.16	
26 09 23 00-0025	EA 60 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	2,525.35	189.67
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.80	
26 09 23 00-0026	EA 100 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	3,827.73	257.40
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.45	
26 09 23 00-0027	3-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0028	EA 30 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,784.97	135.48
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.29	
26 09 23 00-0029	EA 60 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	2,762.79	216.76
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.06	
26 09 23 00-0030	EA 100 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	4,217.70	284.50
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.70	
26 09 23 00-0031	EA 200 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	9,998.53	372.57
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.54	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0032 4-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0033 EA 30 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor 1,668.21	149.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 89.42		
26 09 23 00-0034 EA 60 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor 2,752.69	243.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 146.32		
26 09 23 00-0035 EA 100 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor 3,782.98	311.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 186.96		
26 09 23 00-0036 NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0037 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0038 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 1,012.85	108.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 65.03		
26 09 23 00-0039 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 1,292.36	121.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 73.16		
26 09 23 00-0040 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 2,497.55	189.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 113.80		
26 09 23 00-0041 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 3,752.56	257.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 154.45		
26 09 23 00-0042 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 7,298.12	338.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 203.22		
26 09 23 00-0043 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0044 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 1,048.06	121.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 73.16		
26 09 23 00-0045 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 1,363.98	135.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 81.29		
26 09 23 00-0046 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 2,614.29	216.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 130.06		
26 09 23 00-0047 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 3,926.55	284.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 170.70		
26 09 23 00-0048 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 7,637.26	372.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 223.54		
26 09 23 00-0049 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0050 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 1,131.93	135.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 81.29		
26 09 23 00-0051 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 1,513.00	149.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 89.42		
26 09 23 00-0052 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 3,362.89	243.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 146.32		
26 09 23 00-0053 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 4,826.75	311.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 186.96		
26 09 23 00-0054 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor 10,210.16	406.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 243.86		
26 09 23 00-0055 NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0056 2-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0057 EA 60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor 3,856.40	189.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 113.80		
26 09 23 00-0058 EA 100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor 5,482.05	257.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 154.45		
26 09 23 00-0059 EA 200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor 5,061.39	338.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 203.22		
26 09 23 00-0060 3-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0061 EA 60 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor 4,109.91	216.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 130.06		
26 09 23 00-0062 EA 100 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor 5,820.98	284.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 170.70		
26 09 23 00-0063 4-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0064 EA 60 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor 2,015.07	243.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 146.32		
26 09 23 00-0065 EA 100 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor 2,805.13	311.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 186.96		
26 09 23 00-0066 Mechanically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0067 NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0068 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0069 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	901.60 65.03	108.38
26 09 23 00-0070 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,026.26 73.16	121.93
26 09 23 00-0071 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,953.68 113.80	189.67
26 09 23 00-0072 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,724.20 154.45	257.40
26 09 23 00-0073 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,331.25 203.22	338.69
26 09 23 00-0074 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0075 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	962.31 73.16	121.93
26 09 23 00-0076 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,100.00 81.29	135.48
26 09 23 00-0077 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,070.42 130.06	216.76
26 09 23 00-0078 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,900.31 170.70	284.50
26 09 23 00-0079 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,122.02 223.54	372.57
26 09 23 00-0080 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0081 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,038.07 81.29	135.48
26 09 23 00-0082 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,171.63 89.42	149.02
26 09 23 00-0083 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,424.64 146.32	243.86
26 09 23 00-0084 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,408.25 186.96	311.59
26 09 23 00-0085 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,608.25 243.86	406.44
26 09 23 00-0086 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0087 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0086)		
26 09 23 00-0088 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,363.96 65.03	108.38
26 09 23 00-0089 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,570.13 73.16	121.93
26 09 23 00-0090 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,041.41 113.80	189.67
26 09 23 00-0091 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,264.62 154.45	257.40
26 09 23 00-0092 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,958.34 203.22	338.69
26 09 23 00-0093 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0086)		
26 09 23 00-0094 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,439.73 73.16	121.93
26 09 23 00-0095 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,643.86 81.29	135.48
26 09 23 00-0096 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,158.15 130.06	216.76
26 09 23 00-0097 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,441.79 170.70	284.50
26 09 23 00-0098 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,751.23 223.54	372.57
26 09 23 00-0099 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0086)		
26 09 23 00-0100 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,521.28 81.29	135.48
26 09 23 00-0101 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,715.49 89.42	149.02
26 09 23 00-0102 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,935.38 146.32	243.86
26 09 23 00-0103 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,370.62 186.96	311.59
26 09 23 00-0104 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,325.19 243.86	406.44
26 09 23 00-0105 NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0106	2-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)		
26 09 23 00-0107	EA 30 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,022.44 73.16	121.93
26 09 23 00-0108	EA 60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,916.00 113.80	216.76
26 09 23 00-0109	EA 100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,611.50 154.45	257.40
26 09 23 00-0110	EA 200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,275.07 203.22	338.69
26 09 23 00-0111	3-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)		
26 09 23 00-0112	EA 30 Amperes, 3 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,084.53 81.29	135.48
26 09 23 00-0113	4-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)		
26 09 23 00-0114	EA 200 Amperes, 4 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,502.95 243.86	406.44
26 09 23 00-0115	Combination Lighting Contactors (26 09 23) Note: Up to 600 volt.		
26 09 23 00-0116	Electrically Held, Combination Lighting Contactors (26 09 23 00-0115)		
26 09 23 00-0117	NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0116)		
26 09 23 00-0118	3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0117)		
26 09 23 00-0119	EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,753.13 89.42	149.02
26 09 23 00-0120	EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,747.75 143.06	238.44
26 09 23 00-0121	EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,452.05 187.77	312.96
26 09 23 00-0122	EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,161.81 245.89	409.82
26 09 23 00-0123	NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0116)		
26 09 23 00-0124	3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0123)		
26 09 23 00-0125	EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,201.84 89.42	149.02
26 09 23 00-0126	EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,980.46 143.06	238.44
26 09 23 00-0127	EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,348.15 187.77	312.96
26 09 23 00-0128	EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,145.65 245.89	409.82
26 09 23 00-0129	Mechanically Held, Combination Lighting Contactors (26 09 23 00-0115)		
26 09 23 00-0130	NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0129)		
26 09 23 00-0131	3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0130)		
26 09 23 00-0132	EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,918.51 89.42	149.02
26 09 23 00-0133	EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,320.24 143.06	238.44
26 09 23 00-0134	EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,994.32 187.77	312.96
26 09 23 00-0135	EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,702.76 245.89	409.82



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0136			NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors ^(26 09 23 00-0129)		
26 09 23 00-0137			3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors ^(26 09 23 00-0136)		
26 09 23 00-0138	EA		30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	3,368.82	149.02
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.42	
26 09 23 00-0139	EA		60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	5,556.13	238.44
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.06	
26 09 23 00-0140	EA		100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	8,892.02	312.96
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.77	
26 09 23 00-0141	EA		200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	14,686.60	409.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.89	
26 09 23 00-0142			Automatic Lighting Controls ^(26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0143			Occupancy Sensor ^(26 09 23 00-0142)		
26 09 23 00-0144	EA		Wall Switch Replacement Occupancy Sensor, Single Gang	150.47	
			Note: Includes integral occupancy sensor and relay.		
			For >20 To 40, Deduct	-4.48	
			For >40, Deduct	-9.76	
26 09 23 00-0145	EA		Wall Switch Replacement Occupancy Sensor, Double Gang	151.84	
			Note: Includes integral occupancy sensor and relay.		
			For >20 To 40, Deduct	-4.54	
			For >40, Deduct	-9.86	
26 09 23 00-0146	EA		Ceiling Mount Sensor Coer <500 SF, T-Bar Or Exposed Ceiling	313.56	
			Note: Includes one relay, 8' of plenum rated control wire, mounting, j-box.		
			For Installation In Finished Spline Or Sheetrock Ceiling, Add	20.32	
			For >20 To 40, Deduct	-10.60	
			For >40, Deduct	-20.98	
26 09 23 00-0147	EA		Ceiling Mount Sensor Coer >500 SF, T-Bar Or Exposed Ceiling	343.12	
			Note: Includes one relay, 8' of plenum rated control wire, mounting, j-box.		
			For Installation In Finished Spline Or Sheetrock Ceiling, Add	20.32	
			For >20 To 40, Deduct	-12.08	
			For >40, Deduct	-23.19	
26 09 23 00-0148	EA		Install Additional Switching Relay	123.36	
			Note: Includes 8' of plenum rated control wire, mounting, j-box.		
			For >20 To 40, Deduct	-3.80	
			For >40, Deduct	-8.07	
26 09 23 00-0149	EA		On Board Occupancy Sensor For Light Fixture	180.25	
			Note: Factory installed.		
			For >20 To 40, Deduct	-9.01	
			For >40, Deduct	-13.52	
26 09 23 00-0150	EA		Troubleshoot Existing Occupancy Sensor	67.29	
			Note: Test function, set sensitivity adjustment and time delay.		
			For >40, Deduct	-3.36	
26 09 23 00-0151			Light Level Controllers ^(26 09 23 00-0142)		
26 09 23 00-0152	EA		Wall Switch Replacement Occupancy/Photo Sensor, Single Gang	150.47	
			Note: Includes integral occupancy sensor, photosensor and relay.		
			For >20 To 40, Deduct	-4.48	
			For >40, Deduct	-9.76	
26 09 23 00-0153	EA		Wall Switch Replacement Occupancy/Photo Sensor, Double Gang	151.84	
			Note: Includes integral occupancy sensor, photosensor and relay.		
			For >20 To 40, Deduct	-4.54	
			For >40, Deduct	-9.86	
26 09 23 00-0154	EA		Ceiling Mount Sensor, On/Off Control, T-Bar Or Exposed Ceiling	313.56	
			Note: Includes one relay, 8' of plenum rated control wire, mounting, j-box.		
			For Installation In Finished Spline Or Sheetrock Ceiling, Add	20.32	
			For >20 To 40, Deduct	-10.60	
			For >40, Deduct	-20.98	
26 09 23 00-0155	EA		Ceiling Mount Sensor, Dimming Control, T-Bar Or Exposed Ceiling	372.89	
			Note: Includes one relay, 8' of plenum rated control wire, mounting, j-box.		
			For Installation In Finished Spline Or Sheetrock Ceiling, Add	20.32	
			For >20 To 40, Deduct	-13.56	
			For >40, Deduct	-25.43	
26 09 23 00-0156	EA		On Board Photosensor For Light Fixture	53.70	
			Note: Factory installed.		
			For >20 To 40, Deduct	-2.69	
			For >40, Deduct	-4.03	
26 09 23 00-0157	EA		On Board Dual Technology Occupancy/Photosensor For Light Fixture	217.24	
			Note: Factory installed.		
			For >20 To 40, Deduct	-10.86	
			For >40, Deduct	-16.29	

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26 09 23 00-0158		Timer Controls (26 09 23 00-0142)		
26 09 23 00-0159	EA	In Wall Timers.....	303.71	
		Note: Electronic; direct wall switch replacement for switchleg.		
		For >20 To 40, Deduct	-10.11	
		For >40, Deduct	-20.24	
26 09 23 00-0160	EA	Electronic Timeclock, 365-Day Single Channel For Lighting.....	772.92	
		Note: Including indoor rated enclosure, terminations, 3-pole contactor.		
		For >20 To 40, Deduct	-33.23	
		For >40, Deduct	-55.26	
26 09 23 00-0161	EA	Electronic Timeclock, 365-Day Two Channel For Lighting.....	932.79	
		Note: Including indoor rated enclosure, terminations, (2) 3-pole contactor.		
		For >20 To 40, Deduct	-41.22	
		For >40, Deduct	-67.25	
26 09 23 00-0162	EA	8 Channel Combined DI/DO Lighting Energy Management System.....	5,349.87	
		Note: Includes enclosure, terminations, low voltage components, contactors, overrides, programming, field wiring, network connection/modem.		
		For >20 To 40, Deduct	-132.02	
		For >40, Deduct	-333.50	
26 09 23 00-0163	EA	16 Channel Combined DI/DO Lighting Energy Management System.....	6,689.73	
		Note: Includes enclosure, terminations, low voltage components, contactors, overrides, programming, field wiring, network connection/modem.		
		For >20 To 40, Deduct	-158.37	
		For >40, Deduct	-413.67	
26 09 23 00-0164	EA	32 Channel Combined DI/DO Lighting Energy Management System.....	8,122.29	
		Note: Includes enclosure, terminations, low voltage components, contactors, overrides, programming, field wiring, network connection/modem.		
		For >20 To 40, Deduct	-189.35	
		For >40, Deduct	-500.79	
26 09 23 00-0165		Exterior Photocell (26 09 23 00-0142)		
26 09 23 00-0166	EA	Plug-in Exterior Photocell For Existing Fixture.....	84.76	
		For >20 To 40, Deduct	-3.22	
		For >40, Deduct	-5.85	
26 09 23 00-0167	EA	Mount And Wire To Control Single Fixture.....	161.16	
26 09 23 00-0168	EA	Mount And Wire To Control Multiple Fixtures (Entire Switchleg).....	167.93	
		Note: Includes 8' wire, conduit, exterior rated mounting box.		
26 09 23 00-0169		Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket (26 09 23)		
26 09 23 00-0170	EA	105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket.....	147.13	35.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.17	
26 09 23 00-0171	EA	105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket.....	159.82	35.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.17	
26 09 23 00-0172		Dimming Module System (Lutron Grafik Eye) (26 09 23)		
26 09 23 00-0173	EA	2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2).....	1,860.68	135.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.29	
26 09 23 00-0174	EA	4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4).....	2,400.60	135.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.29	
26 09 23 00-0175	EA	6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6).....	2,950.15	135.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.29	
26 09 23 00-0176		Dimming Module Contol (Leviton) (26 09 23)		
26 09 23 00-0177	EA	5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0).....	240.70	16.97
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 09 23 00-0178		Light Control Panels (26 09 23)		
26 09 23 00-0179		Lighting Control Panels (Watt Stopper) (26 09 23 00-0178)		
26 09 23 00-0180		Lighting Control Panels (Watt Stopper) (26 09 23 00-0179)		
26 09 23 00-0181	EA	4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4).....	2,127.82	190.09
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	114.05	
26 09 23 00-0182	EA	8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8).....	1,996.00	203.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.20	
26 09 23 00-0183	EA	8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G).....	2,244.35	203.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.20	
26 09 23 00-0184	EA	8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8).....	3,355.77	203.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.20	
26 09 23 00-0185	EA	8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G).....	3,647.34	203.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.20	
26 09 23 00-0186	EA	4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4).....	2,366.66	190.09
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	114.05	
26 09 23 00-0187	EA	8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8).....	2,539.47	203.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.20	
26 09 23 00-0188	EA	8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G).....	2,830.76	203.66
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.20	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0189 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,472.29 122.20	203.66
26 09 23 00-0190 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8- G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,763.84 122.20	203.66
26 09 23 00-0191 Accessories For Lighting Control Panels (Watt Stopper) (26 09 23 00-0179)		
26 09 23 00-0192 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	206.35 20.37	33.94
26 09 23 00-0193 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.82 16.29	27.16
26 09 23 00-0194 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.90 16.29	27.16
26 09 23 00-0195 Lighting Control Panels (Synergy) (26 09 23 00-0178)		
26 09 23 00-0196 Lighting Control Panels (Synergy) (26 09 23 00-0195)		
26 09 23 00-0197 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,952.03 122.20	203.66
26 09 23 00-0198 Accessories For Lighting Control Panels (Synergy) (26 09 23 00-0195)		
26 09 23 00-0199 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	722.62 20.37	33.94
26 09 23 00-0200 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	279.93 8.15	13.58
26 09 23 00-0201 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	159.68 12.22	20.36
26 09 23 00-0202 Lighting Switching Panels (Lutron) (26 09 23 00-0178)		
26 09 23 00-0203 Lighting Switching Panels (Lutron) (26 09 23 00-0202)		
26 09 23 00-0204 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,405.58 122.20	203.66
26 09 23 00-0205 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,292.70 130.34	217.24
26 09 23 00-0206 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,306.98 138.49	230.82
26 09 23 00-0207 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) (26 09 23 00-0178)		
26 09 23 00-0208 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,613.65 114.05	190.09
26 09 23 00-0209 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,837.92 114.05	190.09
26 09 23 00-0210 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,062.19 114.05	190.09
26 09 23 00-0211 Power Filters (26 09 23 00-0178)		
26 09 23 00-0212 EA 600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure 26 09 23 00-0213 EA 200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure	40,251.87 23,778.07	1,128.94 490.84
26 09 23 00-0214 Signal Filters (26 09 23 00-0178)		
26 09 23 00-0215 EA 0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case 26 09 23 00-0216 EA 0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case 26 09 23 00-0217 EA 0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case 26 09 23 00-0218 EA 5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case	18,516.72 12,652.59 7,060.69 9,593.62	1,026.37 627.26 364.16 364.16
26 09 23 00-0219 Lighting Control Devices (Encelium) (26 09 23)		
26 09 23 00-0220 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120 Volt) With Polaris 3D™ (Encelium EN-ECU-G4-P3D) Note: Excludes GB II cable.	16,993.58	135.78
26 09 23 00-0221 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U) Note: Excludes GB II and Ethernet cable.	7,773.15	135.78
26 09 23 00-0222 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT) Note: Excludes GB II and Ethernet cable.	4,049.47	135.78
26 09 23 00-0223 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT) Note: Excludes GB II and Ethernet cable.	17,093.47	135.78
26 09 23 00-0224 EA Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK) Note: Excludes GB II cable.	135.37	16.97
26 09 23 00-0225 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR) Note: Excludes GB II cable.	209.15	16.97
26 09 23 00-0226 EA Wired Area Lighting Controller, Heavy-Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK) Note: Excludes GB II cable.	263.94	33.94

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0227	EA	Damp Rated, Wired Area Lighting Controller, Heavy-Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR)..... Note: Excludes GB II cable.	318.17	33.94
26 09 23 00-0228	EA	Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK)..... Note: Excludes GB II cable.	169.32	33.94
26 09 23 00-0229	EA	Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR)..... Note: Excludes GB II cable.	243.10	33.94
26 09 23 00-0230	EA	16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700) Note: Excludes cable.	611.32	67.89
26 09 23 00-0231	EA	Rack Mounted, Wired Power Bar (Encelium PWR-700).....	459.75	67.89
26 09 23 00-0232	EA	Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800)	840.76	67.89
26 09 23 00-0233	EA	Wall Mounted, 4U Mounting Rack (Encelium RCK-700).....	288.48	67.89
26 09 23 00-0234	EA	4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042)	942.25	67.89
		Note: Excludes cable.		
26 09 23 00-0235	EA	Wired BACnet Interface (Encelium BIF-600)	9,863.42	271.55
		Note: Excludes cable.		
26 09 23 00-0236	EA	Wired AV Interface (Encelium EN-SW-AVINT)..... Note: Excludes cable.	7,296.71	67.89
26 09 23 00-0237	EA	Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	273.80	16.97
26 09 23 00-0238	EA	3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	333.73	16.97
26 09 23 00-0239	EA	3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	319.27	16.97
26 09 23 00-0240	EA	5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	333.73	16.97
26 09 23 00-0241	EA	6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH)..... Note: Includes white finish. Excludes GB II cable.	319.27	16.97
26 09 23 00-0242	EA	Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT)..... Note: Includes white finish. Excludes GB II cable.	241.40	16.97
26 09 23 00-0243	EA	Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT)..... Note: Includes white finish. Excludes GB II cable.	333.73	16.97
26 09 23 00-0244	EA	3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT)..... Note: Includes white finish. Excludes GB II cable.	319.27	16.97
26 09 23 00-0245	EA	Wired Key Switch Controller (Encelium KSW-300)..... Note: Excludes GB II cable.	235.57	16.97
26 09 23 00-0246	EA	Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH)	100.69	16.97
		Note: Includes white finish.		
26 09 23 00-0247	EA	1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2)	83.05	33.94
26 09 23 00-0248	EA	1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2)	83.70	33.94
26 09 23 00-0249	EA	5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2)	88.80	33.94
26 09 23 00-0250	EA	10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2)	93.84	33.94
26 09 23 00-0251	EA	15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2)	99.86	33.94
26 09 23 00-0252	EA	20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2)	105.29	33.94
26 09 23 00-0253	EA	25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2)	111.95	33.94
26 09 23 00-0254	EA	50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2)	142.09	33.94
26 09 23 00-0255	EA	1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2)	903.88	33.94
26 09 23 00-0256	EA	Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2).....	220.84	33.94
26 09 23 00-0257	EA	1,000' Box, Category 5, Network Cable (Encelium NWC-400-B).....	1,166.36	33.94
26 09 23 00-0258	EA	Indoor Wired Photo Sensor (Encelium PHS-700)	685.03	67.89
		Note: Excludes GB II cable.		
26 09 23 00-0259	EA	Outdoor Wired Photo Sensor (Encelium PHS-800)	685.03	67.89
		Note: Excludes GB II cable.		
26 09 23 00-0260	EA	Skylight Wired Photo Sensor (Encelium PHS-900)..... Note: Excludes GB II cable.	685.03	67.89
26 09 23 00-0261	EA	450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450)..... Note: Excludes GB II cable.	358.43	67.89
26 09 23 00-0262	EA	1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500)..... Note: Excludes GB II cable.	347.47	67.89
26 09 23 00-0263	EA	2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00)	354.77	67.89
		Note: Excludes GB II cable.		
26 09 23 00-0264	EA	High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY)..... Note: Excludes GB II cable.	391.28	67.89
26 09 23 00-0265	EA	Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG)..... Note: Excludes GB II cable.	354.77	67.89
26 09 23 00-0266	EA	120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-LNV)	281.79	67.89
		Note: Excludes GB II cable.		
26 09 23 00-0267	EA	High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPM24V)..... Note: Excludes GB II cable.	298.47	67.89
26 09 23 00-0268	EA	High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSM24V)..... Note: Excludes GB II cable.	298.47	67.89
26 09 23 00-0269	EA	360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLNS360)	159.42	67.89
		Note: Excludes GB II cable.		
26 09 23 00-0270	EA	Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24)..... Note: Excludes GB II cable.	363.81	67.89
26 09 23 00-0271	EA	Hallway, Wired Occupancy Sensor (Encelium HW-13)..... Note: Excludes GB II cable.	512.60	67.89
26 09 23 00-0272	EA	500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500)	449.67	67.89
		Note: Excludes GB II cable.		
26 09 23 00-0273	EA	1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000)	478.87	67.89
		Note: Excludes GB II cable.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0274 EA 2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000) 493.48	493.48	67.89
Note: Excludes GB II cable.		
26 09 23 00-0275 EA 1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM-1200) 446.02	446.02	67.89
Note: Excludes GB II cable.		
26 09 23 00-0276 EA 120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSM-LNV) 373.04	373.04	67.89
Note: Excludes GB II cable.		
26 09 23 00-0277 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W) 465.37	465.37	67.89
Note: Excludes GB II cable.		
26 09 23 00-0278 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W) 461.55	461.55	67.89
Note: Excludes GB II cable.		
26 09 23 00-0279 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W) 511.36	511.36	67.89
Note: Excludes GB II cable.		
26 09 23 00-0280 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W) 496.04	496.04	67.89
Note: Excludes GB II cable.		
26 09 23 00-0281 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24) 533.46	533.46	67.89
Note: Excludes GB II cable.		
26 09 23 00-0282 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV) 496.19	496.19	67.89
Note: Excludes GB II cable.		
26 09 23 00-0283 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT) 496.19	496.19	67.89
Note: Excludes GB II cable.		
26 09 23 00-0284 EA 10 Amperes, 120 Volt, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C) 327.99	327.99	67.89
26 09 23 00-0285 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C) 350.93	350.93	67.89
26 09 23 00-0286 EA 20 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P) 610.80	610.80	67.89
26 09 23 00-0287 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P) 652.92	652.92	67.89
26 09 23 00-0288 EA 10 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D) 482.99	482.99	67.89
26 09 23 00-0289 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D) 503.35	503.35	67.89
26 09 23 00-0290 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2) 1,439.55	1,439.55	135.78
Note: Excludes GB II cable and enclosure.		
26 09 23 00-0291 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V) 4,506.76	4,506.76	543.10
Note: Excludes GB II cable.		
26 09 23 00-0292 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V) 6,559.10	6,559.10	543.10
Note: Excludes GB II cable.		
26 09 23 00-0293 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V) 8,611.42	8,611.42	543.10
Note: Excludes GB II cable.		
26 09 23 00-0294 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2) 719.78	719.78	67.89
Note: Excludes GB II cable.		
26 09 23 00-0295 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2) 824.07	824.07	67.89
Note: Excludes GB II cable.		
26 09 23 00-0296 EA Wireless Manager (Encelium EN-WM-ZB-P3D) 2,221.49	2,221.49	67.89
Note: Includes white finish.		
26 09 23 00-0297 EA Wireless Control Module (Encelium EN-WCM-ZB) 304.27	304.27	33.94
26 09 23 00-0298 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR) 359.89	359.89	33.94
26 09 23 00-0299 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK) 361.28	361.28	33.94
26 09 23 00-0300 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR) 374.39	374.39	33.94
26 09 23 00-0301 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0302 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0303 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0304 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0305 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0306 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) 279.35	279.35	16.97
26 09 23 00-0307 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) 594.64	594.64	67.89
26 09 23 00-0308 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB) 372.16	372.16	67.89
26 09 23 00-0309 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB) 372.16	372.16	67.89
26 09 23 00-0310 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR) 427.78	427.78	67.89
26 09 23 00-0311 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR) 427.78	427.78	67.89
26 09 23 00-0312 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0313 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0314 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0315 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0316 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) 270.32	270.32	16.97
Note: Includes white finish.		
26 09 23 00-0317 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) 279.35	279.35	16.97
Note: Includes white finish.		
26 09 23 00-0318 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) 594.64	594.64	67.89
26 09 23 00-0319 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) 270.32	270.32	16.97
26 09 23 00-0320 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) 270.32	270.32	16.97
26 09 23 00-0321 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) 270.32	270.32	16.97
26 09 23 00-0322 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) 279.35	279.35	16.97
26 09 23 00-0323 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) 594.64	594.64	67.89
26 09 23 00-0324 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB) 372.16	372.16	67.89
26 09 23 00-0325 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB) 372.16	372.16	67.89
26 09 23 00-0326 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR) 427.78	427.78	67.89

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0327 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	427.78	67.89
26 09 23 00-0328 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	270.32	16.97
26 09 23 00-0329 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	270.32	16.97
26 09 23 00-0330 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)..... Note: Includes white finish.	270.32	16.97
26 09 23 00-0331 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	270.32	16.97
26 09 23 00-0332 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)..... Note: Includes white finish.	270.32	16.97
26 09 23 00-0333 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW).....	279.35	16.97
26 09 23 00-0334 EA 315 MHz, Wireless Photocell (Encelium TAP-17C).....	594.64	67.89
26 09 23 00-0335 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB).....	167.75	67.89
26 09 23 00-0336 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit).....	777.60	67.89
26 09 23 00-0337 Lighting Control Sensors (26 09 23)		
26 09 23 00-0338 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI).....	414.25	30.55
26 09 23 00-0339 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI).....	414.25	30.55
26 09 23 00-0340 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000).....	363.00	30.55
26 09 23 00-0341 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U).....	109.54	20.36
26 09 23 00-0342 EA Clip for Performance Troffer (LG BKTTR015122.BUAAWAA).....	8.92	
26 09 23 00-0343 EA Clip for Downlight (BKTCE015123.BUAAWAA).....	71.24	
26 09 23 00-0344 EA Clip for Tube (LG BKTU015121.BUAAWAA).....	12.65	
26 09 23 00-0345 Radio Controlled Devices (Lutron) (26 09 23)		
26 09 23 00-0346 Tabletop Transmitters For Radio Controlled Devices (26 09 23 00-0345)		
26 09 23 00-0347 Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0346)		
26 09 23 00-0348 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....	545.42	20.36
26 09 23 00-0349 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH).....	709.09	20.36
26 09 23 00-0350 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH).....	893.23	20.36
26 09 23 00-0351 Dimmable Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0346)		
26 09 23 00-0352 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH).....	545.42	20.36
26 09 23 00-0353 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH).....	647.72	20.36
26 09 23 00-0354 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH).....	893.23	20.36
26 09 23 00-0355 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....	545.42	20.36
26 09 23 00-0356 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....	709.09	20.36
26 09 23 00-0357 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....	893.23	20.36
26 09 23 00-0358 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0346)		
26 09 23 00-0359 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH).....	709.09	20.36
26 09 23 00-0360 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....	893.23	20.36
26 09 23 00-0361 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....	893.23	20.36
26 09 23 00-0362 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter (26 09 23 00-0346)		
26 09 23 00-0363 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B- WH).....	545.42	20.36
26 09 23 00-0364 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3- B-WH).....	709.09	20.36
26 09 23 00-0365 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH).....	647.72	20.36
26 09 23 00-0366 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH).....	790.93	20.36
26 09 23 00-0367 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH).....	709.09	20.36
26 09 23 00-0368 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....	852.31	20.36
26 09 23 00-0369 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH).....	709.09	20.36
26 09 23 00-0370 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter (26 09 23 00-0346)		
26 09 23 00-0371 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....	545.42	20.36



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0372 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....	709.09	20.36
26 09 23 00-0373 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH)	709.09	20.36
26 09 23 00-0374 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH)	893.23	20.36
26 09 23 00-0375 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH)	709.09	20.36
26 09 23 00-0376 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH)	893.23	20.36
26 09 23 00-0377 Output Switch Closure Controls, Tabletop Wireless Transmitter (26 09 23 00-0346)		
26 09 23 00-0378 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH)	545.42	20.36
26 09 23 00-0379 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH)	709.09	20.36
26 09 23 00-0380 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH)	893.23	20.36
26 09 23 00-0381 Accessories For Tabletop Wireless Transmitter (26 09 23 00-0346)		
26 09 23 00-0382 EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH)	115.78	20.36
26 09 23 00-0383 Wall Box Transmitters For Radio Controlled Devices (26 09 23 00-0345)		
26 09 23 00-0384 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH)	504.50	20.36
26 09 23 00-0385 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH)	545.42	20.36
26 09 23 00-0386 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH)	545.42	20.36
26 09 23 00-0387 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH)	545.42	20.36
26 09 23 00-0388 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH)	545.42	20.36
26 09 23 00-0389 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH)	545.42	20.36
26 09 23 00-0390 Interfaces For Radio Controlled Devices (26 09 23 00-0345)		
26 09 23 00-0391 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	504.50	20.36
26 09 23 00-0392 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	504.50	20.36
26 09 23 00-0393 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000)	504.50	20.36
26 09 23 00-0394 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8)	1,024.16	20.36
26 09 23 00-0395 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232)	1,466.08	20.36
26 09 23 00-0396 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI)	1,466.08	20.36
26 09 23 00-0397 Fluorescent Controllers For Radio Controlled Devices (26 09 23 00-0345)		
26 09 23 00-0398 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW)	647.72	20.36
26 09 23 00-0399 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F)	729.55	20.36
26 09 23 00-0400 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC)	852.31	20.36
26 09 23 00-0401 AC Motor Group Controllers For Radio Controlled Devices (26 09 23 00-0345)		
26 09 23 00-0402 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC)	954.60	20.36
26 09 23 00-0403 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC)	1,312.64	20.36
26 09 23 00-0404 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) (26 09 23)		
26 09 23 00-0405 RF Wireless Technology, Switches (Lutron® Maestro Wireless®) (26 09 23 00-0404)		
26 09 23 00-0406 EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS)	148.47	27.16
26 09 23 00-0407 EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120)	174.52	27.16
26 09 23 00-0408 EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV)	271.60	27.16
26 09 23 00-0409 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277)	105.02	27.16
26 09 23 00-0410 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277)	127.77	27.16
26 09 23 00-0411 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS)	114.57	27.16
26 09 23 00-0412 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277)	137.79	27.16
26 09 23 00-0413 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0404)		
26 09 23 00-0414 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M)	142.46	27.16
26 09 23 00-0415 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV)	154.48	27.16
26 09 23 00-0416 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120)	184.54	27.16

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26 09 23 00-0417 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120)	198.12	33.94
26 09 23 00-0418 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120)	243.64	27.16
26 09 23 00-0419 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R).....	81.86	27.16
26 09 23 00-0420 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277).....	98.39	27.16
26 09 23 00-0421 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD).....	87.88	27.16
26 09 23 00-0422 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277).....	104.40	27.16
26 09 23 00-0423 EA 6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV).....	275.35	47.52
26 09 23 00-0424 Removal And Reinstallation Of Occupancy Sensors (26 09 23)		
26 09 23 00-0425 EA Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor Note: Includes storing and cleaning.	91.65	
26 09 23 00-0426 EA Removal And Reinstallation Of Wall Mounted Occupancy Sensor Note: Includes storing and cleaning.	61.09	
26 09 23 00-0427 Occupancy Sensors (Watt Stopper) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0428 Occupancy Sensors (26 09 23 00-0427) Note: Exclude boxes.		
26 09 23 00-0429 Wall Switch Mounted Occupancy Sensors (26 09 23 00-0428)		
26 09 23 00-0430 Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0429)		
26 09 23 00-0431 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.86 8.15	13.58
26 09 23 00-0432 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.02 8.15	13.58
26 09 23 00-0433 Passive Infrared, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0429)		
26 09 23 00-0434 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.58 8.15	13.58
26 09 23 00-0435 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.35 8.15	13.58
26 09 23 00-0436 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	130.72 8.15	13.58
26 09 23 00-0437 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.50 8.15	13.58
26 09 23 00-0438 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.79 8.15	13.58
26 09 23 00-0439 Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0429)		
26 09 23 00-0440 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.40 8.15	13.58
26 09 23 00-0441 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	235.59 8.15	13.58
26 09 23 00-0442 Wall Switch Mounted Occupancy Sensor Accessories (26 09 23 00-0429)		
26 09 23 00-0443 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	8.42	3.40
26 09 23 00-0444 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	9.79	3.40
26 09 23 00-0445 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	9.79	3.40
26 09 23 00-0446 Ceiling Mounted Occupancy Sensors (26 09 23 00-0428)		
26 09 23 00-0447 Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0446)		
26 09 23 00-0448 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0447)		
26 09 23 00-0449 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	197.10	30.55
26 09 23 00-0450 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	226.65	30.55
26 09 23 00-0451 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	256.43	30.55
26 09 23 00-0452 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H)	253.74	30.55
26 09 23 00-0453 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0447)		
26 09 23 00-0454 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605)	214.59	30.55
26 09 23 00-0455 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105)	244.57	30.55
26 09 23 00-0456 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205)	272.95	30.55



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26 09 23 00-0457 EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255).....	277.76	30.55
26 09 23 00-0458 EA 600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....	232.51	30.55
26 09 23 00-0459 EA 1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100).....	263.23	30.55
26 09 23 00-0460 EA 2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200).....	293.83	30.55
26 09 23 00-0461 EA 90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	302.64	30.55
26 09 23 00-0462 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0447)		
26 09 23 00-0463 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	223.25	30.55
26 09 23 00-0464 EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	259.06	30.55
26 09 23 00-0465 EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	289.04	30.55
26 09 23 00-0466 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	210.06	30.55
26 09 23 00-0467 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	255.19	30.55
26 09 23 00-0468 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	269.81	30.55
26 09 23 00-0469 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	225.11	30.55
26 09 23 00-0470 EA 1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	251.10	30.55
26 09 23 00-0471 EA 2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	283.19	30.55
26 09 23 00-0472 Passive Infrared, Ceiling Mounted Occupancy Sensors (26 09 23 00-0446)		
26 09 23 00-0473 EA 30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	162.61	30.55
26 09 23 00-0474 EA HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	166.09	30.55
26 09 23 00-0475 EA Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	174.36	30.55
26 09 23 00-0476 EA Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	196.54	30.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		18.33
26 09 23 00-0477 EA Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	199.23	30.55
26 09 23 00-0478 EA Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	210.84	30.55
26 09 23 00-0479 EA Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....	229.41	30.55
26 09 23 00-0480 Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0446)		
26 09 23 00-0481 EA 1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	272.70	30.55
26 09 23 00-0482 EA 1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	312.00	30.55
26 09 23 00-0483 EA 1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	264.36	30.55
26 09 23 00-0484 Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0428)		
26 09 23 00-0485 Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0484)		
26 09 23 00-0486 EA 120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	335.54	30.55
26 09 23 00-0487 EA 2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	335.54	30.55
26 09 23 00-0488 Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0484)		
26 09 23 00-0489 EA 2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	312.00	30.55
26 09 23 00-0490 Occupancy Sensor Power Packs (26 09 23 00-0427)		
26 09 23 00-0491 Single Voltage, Occupancy Sensor Power Packs (26 09 23 00-0490)		
26 09 23 00-0492 EA 220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	109.25	27.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.29
26 09 23 00-0493 EA 347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	99.27	27.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.29
26 09 23 00-0494 Auxiliary, Occupancy Sensor Power Packs (26 09 23 00-0490)		
26 09 23 00-0495 EA 120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	91.05	27.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.29
26 09 23 00-0496 Universal Voltage, Power Packs For Occupancy Sensors (26 09 23 00-0490)		

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26 09 23 00-0497 EA 120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.15 16.29	27.16
26 09 23 00-0498 Form C, Occupancy Sensor Power Packs (26 09 23 00-0490)		
26 09 23 00-0499 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.71 16.29	27.16
26 09 23 00-0500 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.80 16.29	27.16
26 09 23 00-0501 Two Relay, Occupancy Sensor Power Packs (26 09 23 00-0490)		
26 09 23 00-0502 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.64 16.29	27.16
26 09 23 00-0503 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	140.62 16.29	27.16
26 09 23 00-0504 Occupancy Sensor Power Supplies (26 09 23 00-0490)		
26 09 23 00-0505 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.83 16.29	27.16
26 09 23 00-0506 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	284.90 16.29	27.16
26 09 23 00-0507 Intelligent, Occupancy Sensor Power Packs (26 09 23 00-0490)		
26 09 23 00-0508 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....	377.67	27.16
26 09 23 00-0509 DIN Rail Mounted, Occupancy Sensor Power Packs (26 09 23 00-0490)		
26 09 23 00-0510 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	120.01	27.16
26 09 23 00-0511 Occupancy Sensor Accessories (26 09 23 00-0427)		
26 09 23 00-0512 Protective Cages For Occupancy Sensors (26 09 23 00-0511)		
26 09 23 00-0513 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	69.37	10.18
26 09 23 00-0514 Mounting Brackets For Occupancy Sensors (26 09 23 00-0511)		
26 09 23 00-0515 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB)..... Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.	53.51	16.97
26 09 23 00-0516 Occupancy/Lighting Logger (26 09 23 00-0511)		
Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0517 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	516.47	57.71
26 09 23 00-0518 Digital Time Light Switches (26 09 23 00-0427)		
26 09 23 00-0519 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	111.46	13.58
26 09 23 00-0520 Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (26 09 23 00-0427)		
26 09 23 00-0521 EA Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (Watt Stopper FSP-211).....	243.88	44.13
26 09 23 00-0522 Occupancy Sensors (Sensor Switch) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0523 Occupancy Sensors (Sensor Switch) (26 09 23 00-0522)		
Note: Exclude boxes		
26 09 23 00-0524 Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0523)		
26 09 23 00-0525 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0524)		
26 09 23 00-0526 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i>	231.75 15.50 18.60	13.58
26 09 23 00-0527 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	163.55 8.15	13.58
26 09 23 00-0528 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Photocell (Inhibit Mode Only) Option, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.05 15.50 18.60 8.15	13.58



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0529	EA	Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	156.05	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 09 23 00-0530	EA	2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P).....	197.65	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 09 23 00-0531	EA	Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	197.65	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
26 09 23 00-0532	EA	2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....	240.29	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
26 09 23 00-0533	EA	Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD)	197.65	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
26 09 23 00-0534 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch)				
(26 09 23 00-0524)				
Note: Includes passive infrared and microphonics detection				
26 09 23 00-0535	EA	Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	299.95	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
26 09 23 00-0536	EA	Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL)	231.75	13.58
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 09 23 00-0537	EA	Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT)	226.65	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 09 23 00-0538	EA	Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA)	226.65	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 09 23 00-0539	EA	2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P)	265.85	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 09 23 00-0540	EA	Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT)	265.85	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
26 09 23 00-0541	EA	2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P)	286.31	13.58
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
26 09 23 00-0542 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch)				
(26 09 23 00-0524)				
26 09 23 00-0543	EA	One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX)	20.42	3.40
26 09 23 00-0544	EA	One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX)	20.42	3.40
26 09 23 00-0545	EA	Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3)	40.88	3.40
26 09 23 00-0546	EA	Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3)	40.88	3.40
26 09 23 00-0547 360 Degree View Occupancy Sensors (Sensor Switch)				
(26 09 23 00-0523)				
26 09 23 00-0548 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch)				
(26 09 23 00-0547)				
Note: One photocell or dimming option per occupancy sensor				
26 09 23 00-0549	EA	Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9)	265.68	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0550	EA	Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9)	265.68	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0551	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9)	265.68	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0552	EA	Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9).....	282.73	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0553	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9).....	282.73	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0554	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9).....	228.17	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0555	EA	2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P).....	350.93	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Photocell Option With Dual Zone On/Off, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0556	EA	2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P).....	350.93	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Photocell Option With Dual Zone On/Off, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0557	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P).....	296.37	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Photocell Option With Dual Zone On/Off, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0558	EA	Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10).....	265.68	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0559	EA	Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10).....	265.68	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0560	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10).....	265.68	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0561	EA	Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....	282.73	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0562	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10).....	282.73	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0563	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10).....	228.17	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Photocell Option With Dimming Capability, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0564	EA	2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....	350.93	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell (Inhibit Mode Only) Option, Add	18.60	
		For Photocell Option With Dual Zone On/Off, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0565	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....	350.93	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0566	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P).....	296.37	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0567			Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch)⁽²⁶ 09 23 00-0547) Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0568	EA		Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....	333.88	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0569	EA		Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....	333.88	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0570	EA		Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9).....	333.88	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0571	EA		Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....	316.83	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0572	EA		Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	316.83	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0573	EA		Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	262.27	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0574	EA		2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	385.03	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0575	EA		2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	385.03	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0576	EA		2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	330.47	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Photocell Option With Dual Zone On/Off, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0577	EA		Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....	333.88	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Photocell (Inhibit Mode Only) Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Photocell Option With Dimming Capability, Add	46.50	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0578 EA Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....	333.88	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0579 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	333.88	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
26 09 23 00-0580 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	316.83	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0581 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	316.83	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0582 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	262.27	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Occupancy Controlled Dimming Option, Add	31.00	
For Photocell Option With Dimming Capability, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0583 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	385.03	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Photocell Option With Dual Zone On/Off, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0584 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	385.03	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Photocell Option With Dual Zone On/Off, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0585 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	330.47	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Photocell Option With Dual Zone On/Off, Add	46.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0586 Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0523)		
26 09 23 00-0587 Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0586)		
26 09 23 00-0588 EA Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	265.68	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Ceiling Mount, Add	31.00	
26 09 23 00-0589 EA Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	299.78	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Ceiling Mount, Add	31.00	
26 09 23 00-0590 EA Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	367.98	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Ceiling Mount, Add	31.00	
26 09 23 00-0591 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	350.93	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Ceiling Mount, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0592 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	419.13	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Ceiling Mount, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0593 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0586) Note: Includes passive infrared and microphonics detection		
26 09 23 00-0594 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16)	333.88	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Ceiling Mount, Add	31.00	
26 09 23 00-0595 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16)	385.03	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Ceiling Mount, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0596 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P)	453.22	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell (Inhibit Mode Only) Option, Add	18.60	
For Ceiling Mount, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0597 High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0523)		
26 09 23 00-0598 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0597)		
26 09 23 00-0599 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6)	265.68	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell Option, Add	31.00	
For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0600 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6)	265.68	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell Option, Add	31.00	
For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0601 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6)	265.68	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Low Voltage Relay Option, Add	18.60	
For Photocell Option, Add	31.00	
For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0602 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6)	228.17	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Start To High, HID Option, Add	18.60	
For Photocell Option, Add	31.00	
For Occupancy Controlled Dimming Option, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0603 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6)	228.17	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Start To High, HID Option, Add	18.60	
For Photocell Option, Add	31.00	
For Occupancy Controlled Dimming Option, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0604 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6)	228.17	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Start To High, HID Option, Add	18.60	
For Photocell Option, Add	31.00	
For Occupancy Controlled Dimming Option, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0605 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P)	296.37	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell Option, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0606 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P)	296.37	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell Option, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0607 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P)	296.37	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell Option, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0608 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208)	252.04	30.55
For Low Temp/High Humidity Option, Add	15.50	
For Photocell Option, Add	31.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0609	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208).....	252.04	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0610	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....	252.04	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0611	EA	480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....	252.04	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0612	EA	480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480).....	252.04	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0613	EA	480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480).....	252.04	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0614	EA	Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....	299.78	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0615	EA	Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....	299.78	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0616	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....	299.78	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Low Voltage Relay Option, Add	18.60	
		For Photocell Option, Add	31.00	
		For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0617	EA	Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	364.57	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Start To High, HID Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0618	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....	364.57	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Start To High, HID Option, Add	18.60	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0619	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	364.57	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Start To High, HID Option, Add	18.60	
		For Photocell Option, Add	31.00	
		For Occupancy Controlled Dimming Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0620	EA	2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	320.24	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0621	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....	320.24	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0622	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....	269.09	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0623	EA	208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	269.09	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0624	EA	480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	269.09	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0625	EA	480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	269.09	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Photocell Option, Add	31.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0626	EA		Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	299.78	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0627	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	299.78	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Low Voltage Relay Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
26 09 23 00-0628	EA		Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....	364.57	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Start To High, HID Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0629	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10).....	364.57	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Start To High, HID Option, Add	18.60	
			For Occupancy Controlled Dimming Option, Add	31.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0630	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P).....	350.93	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0631	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480).....	316.83	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0632	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....	316.83	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0633			Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0522)		
26 09 23 00-0634	EA		Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20).....	149.79	27.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.29	
26 09 23 00-0635	EA		2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P).....	217.98	27.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.29	
26 09 23 00-0636	EA		Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20).....	115.69	27.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.29	
26 09 23 00-0637	EA		2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20).....	105.46	27.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.29	
26 09 23 00-0638	EA		20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20).....	139.56	27.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.29	
26 09 23 00-0639	EA		120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH).....	224.80	27.16
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.29	
26 09 23 00-0640	EA		120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR).....	224.80	27.16
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.29	
26 09 23 00-0641	EA		120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM).....	224.80	27.16
			For Low Temp/High Humidity Option, Add	15.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.29	
26 09 23 00-0642			Daylighting Control (Sensor Switch) (26 09 23 00-0522)		
26 09 23 00-0643	EA		Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC).....	231.58	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Dual Zone Option, Add	46.50	
26 09 23 00-0644	EA		Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC).....	231.58	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Dual Zone Option, Add	46.50	
26 09 23 00-0645	EA		Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC).....	231.58	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For Dual Zone Option, Add	46.50	
26 09 23 00-0646	EA		Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC).....	231.58	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For 480 Volt AC Option, Add	21.70	
			For Dual Zone Option, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0647	EA		Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC).....	231.58	30.55
			For Low Temp/High Humidity Option, Add	15.50	
			For 480 Volt AC Option, Add	21.70	
			For Dual Zone Option, Add	46.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0648	EA	Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC).....	231.58	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For 480 Volt AC Option, Add	21.70	
		For Dual Zone Option, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0649	EA	Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC).....	231.58	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
26 09 23 00-0650	EA	Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC).....	231.58	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
26 09 23 00-0651	EA	Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC).....	231.58	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
26 09 23 00-0652	EA	Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC).....	231.58	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0653	EA	Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC).....	231.58	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0654	EA	Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC).....	231.58	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0655	EA	Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC).....	333.88	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
26 09 23 00-0656	EA	Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC).....	333.88	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
26 09 23 00-0657	EA	Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC).....	333.88	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
26 09 23 00-0658	EA	Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC).....	333.88	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0659	EA	Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC).....	333.88	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0660	EA	Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC).....	333.88	30.55
		For Low Temp/High Humidity Option, Add	15.50	
		For Dual Zone Option, Add	46.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 09 23 00-0661		Occupancy Sensors (Sensor Switch nLight®) (26 09 23)		
		Note: Includes testing of new devices and certification.		
26 09 23 00-0662		Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0661)		
		Note: Excludes boxes.		
26 09 23 00-0663		Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0662)		
26 09 23 00-0664		Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0663)		
		Note: Includes passive infrared and microphonics detection		
26 09 23 00-0665	EA	Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	360.07	13.58
26 09 23 00-0666		360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0662)		
26 09 23 00-0667		Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0666)		
		Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0668	EA	Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	426.92	30.55
26 09 23 00-0669	EA	Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	426.92	30.55
26 09 23 00-0670	EA	Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	426.92	30.55
26 09 23 00-0671		Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0666)		
		Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0672 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	500.08	30.55
26 09 23 00-0673 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	500.08	30.55
26 09 23 00-0674 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	518.34	30.55
26 09 23 00-0675 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0662)		
26 09 23 00-0676 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0675) Note: Includes passive infrared and microphonics detection		
26 09 23 00-0677 EA Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16)	500.08	30.55
26 09 23 00-0678 High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0662)		
26 09 23 00-0679 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0678)		
26 09 23 00-0680 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6)	426.92	30.55
26 09 23 00-0681 Occupancy Sensor Power Packs (Sensor Switch nLight®) (26 09 23 00-0661)		
26 09 23 00-0682 EA 150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	145.76	27.16
26 09 23 00-0683 EA 250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	182.38	27.16
26 09 23 00-0684 EA 30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO)	244.54	27.16
26 09 23 00-0685 EA System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16)	244.54	27.16
26 09 23 00-0686 Occupancy Sensor Accessories (Sensor Switch nLight®) (26 09 23 00-0661)		
26 09 23 00-0687 EA RS232 AV Integrator (Sensor Switch nLight® nIO X)	518.34	30.55
26 09 23 00-0688 EA 8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT)	417.53	30.55
26 09 23 00-0689 Daylighting Controls (Sensor Switch nLight®) (26 09 23 00-0661)		
26 09 23 00-0690 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC)	353.75	30.55
26 09 23 00-0691 Controls (Sensor Switch nLight®) (26 09 23 00-0661)		
26 09 23 00-0692 EA On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	233.03	30.55
26 09 23 00-0693 EA 1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB).....	335.49	30.55
26 09 23 00-0694 EA On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	774.46	30.55
26 09 23 00-0695 EA 3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX)	774.46	30.55
26 09 23 00-0696 EA 3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	2,896.25	30.55
26 09 23 00-0697 Occupancy Sensors (Lutron) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0698 Wireless Occupancy Sensors (26 09 23 00-0697)		
26 09 23 00-0699 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH)	173.65	30.55
26 09 23 00-0700 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH)	181.21	30.55
26 09 23 00-0701 EA Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH)	175.45	30.55
26 09 23 00-0702 EA Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH)	185.45	30.55
26 09 23 00-0703 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH)	177.69	30.55
26 09 23 00-0704 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH)	185.45	30.55
26 09 23 00-0705 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH)	173.65	30.55
26 09 23 00-0706 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH)	177.69	30.55
26 09 23 00-0707 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V)	175.45	30.55
26 09 23 00-0708 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH)	269.64	30.55
26 09 23 00-0709 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	287.58	30.55
26 09 23 00-0710 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH)	327.95	30.55
26 09 23 00-0711 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	345.89	30.55
26 09 23 00-0712 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH)	354.86	30.55
26 09 23 00-0713 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	372.80	30.55
26 09 23 00-0714 EA Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH)	213.12	30.55

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0715 EA Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH).....	224.78	30.55
26 09 23 00-0716 EA Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH)	262.91	30.55
26 09 23 00-0717 EA Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH)	292.07	30.55
26 09 23 00-0718 EA Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH)	314.49	30.55
26 09 23 00-0719 EA Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH)	271.88	30.55
26 09 23 00-0720 EA Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH).....	250.10	30.55
26 09 23 00-0721 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH).....	209.57	30.55
26 09 23 00-0722 EA Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH).....	257.36	30.55
26 09 23 00-0723 EA Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C)	311.95	30.55
26 09 23 00-0724 EA Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H).....	330.94	30.55
26 09 23 00-0725 EA Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K)	330.94	30.55
26 09 23 00-0726 EA Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W)	330.94	30.55
26 09 23 00-0727 EA Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V).....	348.35	30.55
26 09 23 00-0728 EA Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....	564.65	44.13
26 09 23 00-0729 Nodes And Modules (26 09 23 00-0697)		
26 09 23 00-0730 EA 0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C).....	280.85	30.55
26 09 23 00-0731 EA 0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J).....	280.85	30.55
26 09 23 00-0732 EA 4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C)	354.86	30.55
26 09 23 00-0733 EA 4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J)	354.86	30.55
26 09 23 00-0734 EA 120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	453.61	33.94
26 09 23 00-0735 EA 120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH)	453.61	33.94
26 09 23 00-0736 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH)	550.05	33.94
26 09 23 00-0737 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH)	563.50	33.94
26 09 23 00-0738 EA 120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	695.82	33.94
26 09 23 00-0739 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH)	738.43	33.94
26 09 23 00-0740 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	781.04	33.94
26 09 23 00-0741 EA 1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	2,110.23	54.31
26 09 23 00-0742 EA 2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4)	2,073.34	61.09
26 09 23 00-0743 EA 3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	3,040.07	67.89
26 09 23 00-0744 Other Accessories (26 09 23 00-0697)		
26 09 23 00-0745 EA Pico® Wireless Control Wallplate Adapter (Lutron® PJ)	45.33	
26 09 23 00-0746 EA Pico® Wireless Control (Lutron® PJ)	57.53	
26 09 23 00-0747 EA 4-Scene Wireless Remote Control (Lutron® GRX-IT-WH)	170.55	
26 09 23 00-0748 EA 8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH)	325.29	
26 09 23 00-0749 EA 4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	341.92	30.55
26 09 23 00-0750 EA seeTouch® QS Wallstation (Lutron® QSWS2).....	432.82	30.55
26 09 23 00-0751 EA seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2).....	432.82	30.55
26 09 23 00-0752 EA 120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S)	709.28	33.94
26 09 23 00-0753 EA 120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S)	971.67	33.94
26 09 23 00-0754 EA Control Interface (Lutron® QSE-CI-NWK-E).....	1,168.96	30.55
26 09 23 00-0755 EA 1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S).....	1,160.01	30.55
26 09 23 00-0756 EA 2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S)	1,552.48	30.55
26 09 23 00-0757 MLF 5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S)	2,569.48	948.34
26 09 23 00-0758 MLF 5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	3,466.55	948.34
26 09 23 00-0759 Wired Occupancy Sensors (26 09 23 00-0697)		
26 09 23 00-0760 EA 120 Volt, Dimmer With Occupancy Sensor (Lutron® MS-OP600M)	139.72	33.94
26 09 23 00-0761 EA 120 Volt, Eco-dim Dimmer With Occupancy Sensor (Lutron® MS-OP600GHW)	146.68	33.94
26 09 23 00-0762 EA 120 Volt, Dimmer With Vacancy Sensor (Lutron® MS-VP600M).....	139.72	33.94
26 09 23 00-0763 EA 120 Volt, Eco-dim Dimmer With Vacancy Sensor (Lutron® MS-VP600GHW).....	146.68	33.94
26 09 23 00-0764 EA 120 Volt, Occupancy Sensor Switch (Lutron® MS-OPS2).....	106.33	33.94
26 09 23 00-0765 EA 120 Volt, 3-Way Occupancy Sensor Switch (Lutron® MS-OPS5M)	125.98	33.94
26 09 23 00-0766 EA 120 Volt, 3-Way Occupancy Sensor With Dual Voltage Switch (Lutron® MS-OPS6M2-DV).....	176.16	33.94
26 09 23 00-0767 EA 120 Volt, 3-Way Occupancy Sensor With Dual Voltage Switch (Lutron® MS-OPS6M2N-DV)	155.48	33.94
26 09 23 00-0768 EA 120 Volt, Vacancy Sensor Switch (Lutron® MS-VPS2)	103.69	33.94
26 09 23 00-0769 EA 120 Volt, 3-Way Vacancy Sensor Switch (Lutron® MS-VPS5M)	125.98	33.94
26 09 23 00-0770 EA 120 Volt, 3-Way Vacancy Sensor With Dual Voltage Switch (Lutron® MS-VPS6M2-DV)	168.44	33.94
26 09 23 00-0771 EA 120 Volt, 3-Way Vacancy Sensor With Dual Voltage Switch (Lutron® MS-VPS6M2N-DV).....	142.18	33.94
26 09 23 00-0772 EA 120 Volt, Multi-Location, Single-Pole, Passive Infrared, Wall Switch Mount Occupancy/Vacancy Sensor With Dimmer (Lutron® Maestro® MSCL-OP153M)	153.55	33.94
26 09 23 00-0773 EA 120 Volt, Multi-Location, Single-Pole, Passive Infrared, Wall Switch Mount Vacancy Sensor With Dimmer (Lutron® Maestro® MSCL-VP153M).....	163.06	33.94
26 09 23 00-0774 Lighting Controls (Daintree Networks) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0775 Wireless Sensors (26 09 23 00-0774)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0776 EA Battery Powered, Passive Infrared, Ceiling Mount, 500 SF Coverage, 360 Degree View, Wireless Occupancy Sensor (Daintree Networks WOS2-CM-S).....	207.42	30.55
26 09 23 00-0777 EA Battery Powered, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View, Wireless Occupancy Sensor (Daintree Networks WOS2-CM-E).....	207.42	30.55
26 09 23 00-0778 EA Battery Powered, Passive Infrared, Wall Mount, Long-Range Lens, Wireless Occupancy Sensor (Daintree Networks WOS2-WM-L)..... Note: 8' to 12' install height.	207.42	30.55
26 09 23 00-0779 EA Battery Powered, Passive Infrared, Wall Mount, Wide-Angle Lens, Wireless Occupancy Sensor (Daintree Networks WOS2-WM-W)..... Note: 8' to 12' install height.	207.42	30.55
26 09 23 00-0780 EA Battery Powered, Wireless Photosensor (Daintree Networks WPS1)..... Note: 8' to 12' install height.	178.15	30.55
26 09 23 00-0781 Wireless Adaptors (26 09 23 00-0774)		
26 09 23 00-0782 EA Line Voltage, Wireless Adapter (Daintree Networks WA100)..... Note: Includes on/off, 0-10V dimming and alternate/bi-level switching. Includes inputs for occupancy controller and photo sensor, and mounting bracket.	242.43	40.73
26 09 23 00-0783 EA Line Voltage, Wireless Adapter With Power Monitoring (Daintree Networks WA100-PM)..... Note: Includes on/off, 0-10V dimming and alternate/bi-level switching. Includes inputs for occupancy controller and photo sensor, power monitoring, and mounting bracket.	271.70	40.73
26 09 23 00-0784 EA Line Voltage, Wireless Fixture Adapter (Daintree Networks WFA100)..... Note: Includes on/off and 0-10V dimming.	189.75	40.73
26 09 23 00-0785 EA Line Voltage, Wireless Fixture Adapter With Sensor Inputs (Daintree Networks WFA100-SN)..... Note: Includes on/off and 0-10V dimming. Includes inputs for occupancy controller and photo sensor.	204.39	40.73
26 09 23 00-0786 EA Line Voltage, Wireless General Purpose Adapter (Daintree Networks WGA100)..... Note: Includes mounting bracket.	300.97	40.73
26 09 23 00-0787 Controllers (26 09 23 00-0774) Note: Includes programming for new controllers.		
26 09 23 00-0788 EA Site System Controller (Daintree Networks SC51)..... Note: For single facility up to 1,000 wireless nodes. Excludes node licenses. Does not support CS-MFM.	3,033.13	67.89
26 09 23 00-0789 EA Enterprise System Controller (Daintree Networks SC71)..... Note: For single or multiple facilities up to 10,000 wireless nodes. Excludes node licenses. Up to 4,000 zones per facility. Single facility included, additional facilities require purchase of CS-MFM per facility. Includes rack rails.	5,081.76	67.89
26 09 23 00-0790 EA Wireless Area Controller (Daintree Networks WAC50)..... Note: Maximum capacity of 100 wireless nodes. Excludes node licenses.	1,209.27	
26 09 23 00-0791 EA BACnet Server (Daintree Networks CS-BAC)..... Note: Requires purchase of additional CS-BAC-5 licenses for systems with more than 1,000 nodes.	5,959.74	67.89
26 09 23 00-0792 Other Accessories (26 09 23 00-0774)		
26 09 23 00-0793 EA 10 To 30 Volt AC, Wireless Thermostat (Daintree Networks WTS10).....	486.97	67.89
26 09 23 00-0794 EA Battery Powered, Wireless Wall Dimmer (Daintree Networks WWD1).....	213.17	40.73
26 09 23 00-0795 EA SafePlug Model 1203 Wireless Plug Load Controller, Dual Receptacle (Daintree Networks RSP-1203)..... Note: ControlScope interoperable version is 9916 003 ZB HA or later.	319.82	13.58
26 09 23 00-0796 EA SafePlug 1621 Reset Link Key (Daintree Networks RSP-1621)..... Note: Required to reset a Safeplug 1203 to default settings.	20.49	
26 09 23 00-0797 Software And Support (26 09 23 00-0774)		
26 09 23 00-0798 EA Regular Node License Bundle (25 Regular Wireless Nodes) (Daintree Networks N25)..... Note: Includes 1 year of SUS.	2,019.36	
26 09 23 00-0799 EA Software Updates and Support - 1 Year Extension (5 Wireless Nodes) (Daintree Networks SUS1-5)..... Note: Node total must match the number of wireless node licenses purchased or installed on the system.	131.70	
26 09 23 00-0800 EA Software Updates and Support - 3 Year Extension (5 Wireless Nodes) (Daintree Networks SUS3-5)..... Note: Node total must match the number of wireless node licenses purchased or installed on the system.	321.93	
26 09 23 00-0801 EA Thermostat Node License Bundle (5 Thermostat Wireless Nodes) (Daintree Networks T5)..... Note: Includes 1 year of SUS.	1,726.70	
26 09 23 00-0802 EA BACnet Supplemental Node License Bundle (5 Additional Wireless Nodes) (Daintree Networks CS-BAC-5)..... Note: Requires CS-BAC; Supports additional wireless nodes above 1,000. Node total must match the number of wireless node licenses purchased or installed on the system.	29.27	
26 09 23 00-0803 EA Multi-Facility Management (per additional facility) (Daintree Networks CS-MFM)..... Note: Requires SC71.	1,141.38	
26 09 23 00-0804 HR Engineering Assistance (Daintree Networks EAH1).....	438.99	
26 09 23 00-0805 DAY Engineering Assistance (Daintree Networks EA1).....	3,511.94	
26 09 23 00-0806 EA 2-Year Hardware Warranty Extension (Daintree Networks HWE2-SC51)..... Note: Extends total hardware warranty to 3 years. Can be purchased before expiry of the included 1-year warranty.	936.52	
26 09 23 00-0807 EA 2-Year Hardware Warranty Extension (Daintree Networks HWE2-SC71)..... Note: Extends total hardware warranty to 3 years. Can be purchased before expiry of the included 1-year warranty.	1,726.70	
26 09 23 00-0808 Fixture Mounted Occupancy Sensors (Leviton) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0809 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....	166.47	30.55
26 09 23 00-0810 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-I4W).....	145.84	30.55
26 09 23 00-0811 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW).....	183.52	30.55

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0812 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W)	145.84	30.55
26 09 23 00-0813 EA 120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT)	240.92	13.55
26 09 23 00-0814 Wireless Enabled Communication Devices For Streetlights (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0815 Wireless Enabled Communication Nodes For Streetlights (Roam®) (26 09 23 00-0814)		
26 09 23 00-0816 EA 120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1)	367.19	
26 09 23 00-0817 EA 480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1)	513.52	
26 09 23 00-0818 Wireless Enabled Communication Devices For Streetlights (Roam®) (26 09 23 00-0814)		
26 09 23 00-0819 EA Retrofit Receptacle Kit (Roam® DUR103)	63.57	
26 09 23 00-0820 EA Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127)	14,784.78	75.85
26 09 23 00-0821 Counter Mounted Consoles (26 09 23)		
26 09 23 00-0822 EA 20" x 24" Type 12, Oil Tight Consoles, Counter Mounted (Schaefer's SPCL-20C24)	729.64	169.34
26 09 23 00-0823 Lighting Console And Stations (26 09 23)		
26 09 23 00-0824 EA 80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40)	5,225.32	169.34
For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add	113.00	
For Lighting Console Case (ETC ColorSourcePart 11866), Add	1,204.85	
26 09 23 00-0825 EA 10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2)	3,608.44	101.61
26 09 23 00-0826 Emergency Lighting Controls (26 09 23)		
26 09 23 00-0827 Emergency Lighting Control Units (Watt Stopper ELCU) (26 09 23 00-0826) Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.		
26 09 23 00-0828 EA DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100)	257.22	33.94
26 09 23 00-0829 EA 1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200)	257.22	33.94
26 09 23 00-0830 Emergency Shunt Relays (Lighting Control & Design GR 2001™) (26 09 23 00-0826) Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.		
26 09 23 00-0831 EA 1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	425.51	47.52
26 09 23 00-0832 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	580.55	54.31
26 09 23 00-0833 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual)	783.11	61.09
Note: Controls normal and emergency lighting from single-pole wall switch.		
26 09 23 00-0834 Photocells (26 09 23)		
26 09 23 00-0835 EA Plug-In Photocell For Lighting Fixtures (Intermac® LC2000)	104.82	
26 09 23 00-0836 EA Wired Photocell For Lighting Fixtures (Intermac® K4021C)	240.22	
26 09 23 00-0837 Outdoor Lighting Motion Sensors (26 09 23)		
26 09 23 00-0838 EA 70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000)	138.89	33.94
26 09 23 00-0839 EA 70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000)	151.76	33.94
26 09 23 00-0840 EA 30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR)	629.68	33.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.37	
26 09 23 00-0841 Street Light Controls (26 09 23)		
26 09 23 00-0842 Photo Controls (26 09 23 00-0841)		
26 09 23 00-0843 EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014	107.05	
26 09 23 00-0844 EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016	121.69	
26 09 23 00-0845 Connector Node (26 09 23 00-0841)		
26 09 23 00-0846 EA Outdoor Lighting Connector Node (Philips City Touch LLC7260)	569.87	3.59
26 09 23 00-0847 Occupancy Sensors And Switches (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0848 EA 1-pole dimming nLight Air wireless switch (Acuity rPODBA DX WH G2)	106.30	13.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0849 EA 2-pole dimming nLight Air wireless switch (Acuity rPODBA 2P DX WH G2)	114.54	13.58
26 09 23 00-0850 EA 1-pole non-dimming nLight Air wireless switch (Acuity rPODBA WH G2).....	106.30	13.58
26 09 23 00-0851 EA 2-pole non-dimming nLight Air wireless switch (Acuity rPODBA 2P WH G2)	114.54	13.58
26 09 23 00-0852 EA nLight Air dimming powerpack (Acuity rPP20 DS).....	137.24	13.58
26 09 23 00-0853 EA nLight Air non-dimming powerpack (Acuity rPP20 24V)	113.43	13.58
26 09 23 00-0854 EA Wired wall-switch occupancy sensor (Sensor Switch WSX PDT WH).....	91.65	13.58
26 09 23 00-0855 EA Wireless battery powered nLight Air ceiling sensor (Acuity rCMSB 7 G2).....	170.95	13.58
26 09 23 00-0856 EA nLight Air non-dimming powerpack (Acuity rPP20 24V DS)	137.24	13.58

26 10 Medium-Voltage Electrical Distribution ^(26 10)

26 11 Substations ^(26 11)

26 11 13 Primary Unit Substations ^(26 11)

26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section ^(26 11 13)

26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard" ^(26 11 13 00-0001)

Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment

26 11 13 00-0003 EA 14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	114,353.07	2,355.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,437.60	
26 11 13 00-0004 EA 23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	140,202.34	2,979.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,797.00	
26 11 13 00-0005 EA 34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	159,375.50	2,979.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,797.00	
26 11 13 00-0006 EA 46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	183,605.63	2,979.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,916.80	
26 11 13 00-0007 EA 69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	208,217.44	3,671.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,211.69	

26 11 13 00-0008 Accessories For Outdoor Oil Circuit Breakers ^(26 11 13 00-0001)

26 11 13 00-0009 EA Reclosure Relay, Adjustable, 3 Shot, #179	2,887.48	247.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	146.61	
26 11 13 00-0010 EA Overcurrent Relay, 1 Phase, #51/51N.....	796.47	179.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.78	
26 11 13 00-0011 EA Directional Overcurrent Relay, Three-Phase, Device No. 67	1,250.31	179.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.84	
26 11 13 00-0012 EA Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase.....	985.60	179.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.78	
26 11 13 00-0013 EA Differential Relay Package, Complete, Device No. 87	3,685.87	606.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	366.29	

26 11 13 00-0014 "Switchyard", Substation Transformer Section ^(26 11 13)

Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range

26 11 13 00-0015 14.4 KV Nominal Primary ^(26 11 13 00-0014)

26 11 13 00-0016 EA 1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	64,470.95	2,355.59
For 50 Hz Operation, Add	7,161.47	
For Forced Air-Cooling, Add	7,161.47	
For External Control Panel, Add	1,790.37	
For Internally Mounted Current Transformers And Linear Couplers, Add	596.79	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,983.95	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,459.87	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	8,951.84	
26 11 13 00-0017 EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	73,365.03	2,951.41
For 50 Hz Operation, Add	8,085.00	
For Forced Air-Cooling, Add	8,085.00	
For External Control Panel, Add	2,021.25	
For Internally Mounted Current Transformers And Linear Couplers, Add	673.75	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,368.75	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,421.88	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,106.25	
26 11 13 00-0018 EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	113,357.93	4,156.91
For 50 Hz Operation, Add	12,580.66	
For Forced Air-Cooling, Add	12,580.66	
For External Control Panel, Add	3,145.16	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,048.39	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,241.94	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	13,104.85	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	15,725.82	
26 11 13 00-0019 EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	165,381.94	5,001.98
For 50 Hz Operation, Add	18,551.20	
For Forced Air-Cooling, Add	18,551.20	
For External Control Panel, Add	4,637.80	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,545.93	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,729.67	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	19,324.17	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	23,189.00	

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	203,617.94	6,473.16
For 50 Hz Operation, Add	22,815.86	
For Forced Air-Cooling, Add	22,815.86	
For External Control Panel, Add	5,703.97	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,901.32	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	9,506.61	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	23,766.53	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	28,519.83	
26 11 13 00-0021 23 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	71,638.34	3,186.97
For 50 Hz Operation, Add	7,877.80	
For External Control Panel, Add	1,969.45	
For Internally Mounted Current Transformers And Linear Couplers, Add	656.48	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,282.42	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,206.04	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,847.25	
For Forced Air-Cooling, Add	5,251.87	
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	81,519.46	3,186.97
For 50 Hz Operation, Add	8,914.35	
For External Control Panel, Add	2,228.59	
For Internally Mounted Current Transformers And Linear Couplers, Add	742.86	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,714.31	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,285.78	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,142.94	
For Forced Air-Cooling, Add	5,942.90	
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	132,192.21	4,711.17
For 50 Hz Operation, Add	14,712.99	
For External Control Panel, Add	3,678.25	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,226.08	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	6,130.41	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	15,326.03	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	18,391.23	
For Forced Air-Cooling, Add	9,808.66	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	176,963.88	6,473.16
For 50 Hz Operation, Add	19,617.38	
For External Control Panel, Add	4,904.34	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,634.78	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	8,173.91	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	20,434.77	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	24,521.72	
For Forced Air-Cooling, Add	13,078.25	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	221,387.37	6,473.16
For 50 Hz Operation, Add	24,948.20	
For External Control Panel, Add	6,237.05	
For Internally Mounted Current Transformers And Linear Couplers, Add	2,079.02	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	10,395.08	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	25,987.70	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	31,185.24	
For Forced Air-Cooling, Add	16,632.13	
26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	90,157.36	3,810.51
For 50 Hz Operation, Add	9,950.90	
For External Control Panel, Add	2,487.72	
For Internally Mounted Current Transformers And Linear Couplers, Add	829.24	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,146.21	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,365.52	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,438.62	
For Forced Air-Cooling, Add	6,633.93	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	108,912.67	5,958.25
For 50 Hz Operation, Add	12,023.99	
For External Control Panel, Add	3,006.00	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,002.00	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,010.00	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,524.99	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	15,029.99	
For Forced Air-Cooling, Add	8,016.00	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	150,581.59	5,958.25
For 50 Hz Operation, Add	16,632.19	
For External Control Panel, Add	4,158.05	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,386.02	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	6,930.08	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	17,325.20	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	20,790.24	
For Forced Air-Cooling, Add	11,088.13	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	194,733.16	6,326.03
For 50 Hz Operation, Add	21,749.69	
For External Control Panel, Add	5,437.42	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,812.47	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	9,062.37	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	22,655.93	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	27,187.11	
For Forced Air-Cooling, Add	14,499.79	



Electrical		26
Medium-Voltage Electrical Distribution		26 10
Substations		26 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	340,664.42 38,808.32 9,702.08 3,234.03 16,170.13 40,425.33 48,510.40 25,872.21	8,091.44
26 11 13 00-0033 46 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0034 EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	139,893.66 15,741.71 3,935.43 1,311.81 6,559.05 16,397.62 19,677.14 10,494.48	4,434.04
26 11 13 00-0035 EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	158,305.84 17,846.62 4,461.66 1,487.22 7,436.09 18,590.23 22,308.28 11,897.75	4,434.04
26 11 13 00-0036 EA 5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	220,184.31 24,984.52 6,246.13 2,082.04 10,410.22 26,025.54 31,230.65 16,656.35	5,958.25
26 11 13 00-0037 EA 7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	267,443.66 30,021.83 7,505.46 2,501.82 12,509.10 31,272.74 37,527.29 20,014.55	8,091.44
26 11 13 00-0038 EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	385,197.97 44,152.35 11,038.09 3,679.36 18,396.81 45,992.03 55,190.43 29,434.90	8,091.44
26 11 13 00-0039 69 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0040 EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	203,411.03 23,259.24 5,814.81 1,938.27 9,691.35 24,228.38 29,074.06 15,506.16	4,711.17
26 11 13 00-0041 EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	232,955.57 26,517.07 6,629.27 2,209.76 11,048.78 27,621.95 33,146.34 17,678.05	5,958.25
26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	323,235.44 37,350.65 9,337.66 3,112.55 15,562.77 38,906.93 46,688.32 24,900.44	5,958.25
26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	339,372.35 38,653.27 9,663.32 3,221.11 16,105.53 40,263.83 48,316.59 25,768.85	8,091.44

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air-Cooling, Add</i>	448,110.32 51,701.83 12,925.46 4,308.49 21,542.43 53,856.07 64,627.29 34,467.89	8,091.44
26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV (26 11 13)		
26 11 13 00-0046 EA 1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	124,098.24	1,154.44
26 11 13 00-0047 EA 1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	136,427.36	1,154.44
26 11 13 00-0048 EA 1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	155,141.55	1,434.00
26 11 13 00-0049 EA 2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	144,479.81	1,724.32
26 11 13 00-0050 EA 2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	163,105.57	1,724.32
26 11 13 00-0051 EA 2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	186,023.47	2,003.27
26 11 13 00-0052 EA 3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	191,425.70	2,288.74
26 11 13 00-0053 EA 3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	214,615.82	2,288.74
26 11 13 00-0054 EA 3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	224,682.11	2,570.27
26 11 16 Secondary Unit Substations (26 11)		
26 11 16 11 Secondary Unit Substations with Switchgear Secondary (26 11 16)		
26 11 16 11-0001 Substation Primary Incoming Section (26 11 16 11)		
26 11 16 11-0002 Manual Transferring Fused Load Break Switches (26 11 16 11-0001) Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 11-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	47,893.72	1,695.25
26 11 16 11-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	55,336.57	1,695.25
26 11 16 11-0005 Automatic Transferring Fused Load Break Switches (26 11 16 11-0001) Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 11-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch	67,815.60	1,695.25
26 11 16 11-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch	72,659.46	1,695.25
26 11 16 11-0008 Accessories For Substation Fused Load Break Switches (26 11 16 11-0001)		
26 11 16 11-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section	28,793.32	
26 11 16 11-0010 EA Key Interlock Accessories, Secondary Distribution Section.....	2,802.66	
26 11 16 11-0011 Oil Filled Substation Transformers (26 11 16 11) Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 11-0012 Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ (26 11 16 11-0011)		
26 11 16 11-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	49,683.24 3,332.33 1,428.14 476.05	1,039.23
26 11 16 11-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	73,598.20 4,977.28 2,133.12 711.04	1,247.08
26 11 16 11-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	83,359.39 5,641.17 2,417.64 805.88	1,385.64
26 11 16 11-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	98,428.16 6,647.48 2,848.92 949.64	1,732.04
26 11 16 11-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	109,246.01 7,346.54 3,148.52 1,049.51	2,147.74
26 11 16 11-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	116,053.56 7,755.17 3,323.64 1,107.88	2,632.72
26 11 16 11-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	135,589.92 9,045.12 3,876.48 1,292.16	1,385.64



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Substations		26 11	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0020	EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	144,314.93 9,617.07 4,121.60 1,373.87	3,464.10
26 11 16 11-0021	EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	161,402.14 10,764.68 4,613.43 1,537.81	3,810.51
26 11 16 11-0022	EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	187,080.71 12,503.98 5,358.85 1,786.28	4,226.19
26 11 16 11-0023	EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	205,506.44 13,740.44 5,888.76 1,962.92	4,607.25
26 11 16 11-0024	Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ (26 11 16 11-0011)		
26 11 16 11-0025	EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	47,308.30 3,166.09 1,356.90 452.30	1,039.23
26 11 16 11-0026	EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	72,412.41 4,923.38 2,110.02 703.34	1,039.23
26 11 16 11-0027	EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	83,306.83 5,637.49 2,416.07 805.36	1,385.64
26 11 16 11-0028	EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	98,518.58 6,653.81 2,851.63 950.54	1,732.04
26 11 16 11-0029	EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	118,474.46 7,992.53 3,425.37 1,141.79	2,147.74
26 11 16 11-0030	EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	127,544.64 8,559.55 3,668.38 1,222.79	2,632.72
26 11 16 11-0031	EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	140,896.06 9,416.55 4,035.66 1,345.22	3,186.97
26 11 16 11-0032	EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	153,455.24 10,256.89 4,395.81 1,465.27	3,464.10
26 11 16 11-0033	EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	173,221.96 11,592.07 4,968.03 1,656.01	3,810.51
26 11 16 11-0034	Accessories For Oil Filled Substation Transformers (26 11 16 11-0011)		
26 11 16 11-0035	EA Sudden Pressure Relay.....	14,428.82	
26 11 16 11-0036	EA Throats Or Flanges (HV Or LV).....	28,646.11	
26 11 16 11-0037	EA Lightning Arrestors (3 - 1 Pole).....	18,862.36	
26 11 16 11-0038	EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....	104,676.64	
26 11 16 11-0039	EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout	97,935.41	
26 11 16 11-0040	Reinforced Concrete Curb With 6" Slab (26 11 16 11-0011) Note: For transformer liquid containment area.		
26 11 16 11-0041	EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,363.67	1,501.15
26 11 16 11-0042	EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,363.67	1,501.15
26 11 16 11-0043	EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,363.67	1,501.15
26 11 16 11-0044	EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,363.67	1,501.15
26 11 16 11-0045	EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,363.67	1,501.15
26 11 16 11-0046	EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,363.67	1,501.15
26 11 16 11-0047	EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,363.67	1,501.15
26 11 16 11-0048	EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	12,803.48	1,730.86
26 11 16 11-0049	Dry Type Substation Transformer (26 11 16 11) Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
26 11 16 11-0050	Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049) Note: Primary 4.160 or 4.8 KV (delta or wye).		

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0051	EA	112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	88,147.50 51,558.29 -2,148.26 19,126.41	1,108.51
26 11 16 11-0052	EA	150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	88,286.07 51,558.29 -2,148.26 19,140.26	1,177.79
26 11 16 11-0053	EA	225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	89,821.05 52,229.87 -2,176.24 19,428.08	1,385.64
26 11 16 11-0054	EA	300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	99,149.53 57,660.68 -2,402.53 21,447.09	1,524.21
26 11 16 11-0055	EA	500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	109,821.55 63,731.33 -2,655.47 23,728.42	1,801.33
26 11 16 11-0056	EA	750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	127,253.43 73,857.91 -3,077.41 27,496.93	2,078.46
26 11 16 11-0057	EA	1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	147,580.01 85,555.03 -3,564.79 31,869.01	2,494.15
26 11 16 11-0058	EA	1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	174,803.57 101,556.61 -4,231.53 37,791.68	2,771.27
26 11 16 11-0059	EA	2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	227,916.93 133,258.35 -5,552.43 49,443.36	2,909.84
26 11 16 11-0060		Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt (26 11 16 11-0049) Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 11-0061	EA	112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	85,098.07 49,728.63 -2,072.03 18,455.53	1,108.51
26 11 16 11-0062	EA	150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	88,286.07 51,558.29 -2,148.26 19,140.26	1,177.79
26 11 16 11-0063	EA	225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	89,821.05 52,229.87 -2,176.24 19,428.08	1,385.64
26 11 16 11-0064	EA	300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	99,149.53 57,660.68 -2,402.53 21,447.09	1,524.21
26 11 16 11-0065	EA	500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	109,821.55 63,731.33 -2,655.47 23,728.42	1,801.33
26 11 16 11-0066	EA	750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	127,253.43 73,857.91 -3,077.41 27,496.93	2,078.46
26 11 16 11-0067	EA	1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	147,580.01 85,555.03 -3,564.79 31,869.01	2,494.15
26 11 16 11-0068	EA	1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	174,803.57 101,556.61 -4,231.53 37,791.68	2,771.27
26 11 16 11-0069	EA	2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	227,916.93 133,258.35 -5,552.43 49,443.36	2,909.84
26 11 16 11-0070	EA	2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	250,456.66 146,615.92 -6,109.00 54,368.85	3,048.40
26 11 16 11-0071	EA	3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	279,967.78 164,156.31 -6,839.85 60,828.04	3,186.97



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Substations		26 11	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 11 16 11-0072	EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	323,395.23 190,046.50 -7,918.60 70,348.82		3,325.53
26 11 16 11-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049)				
26 11 16 11-0074	EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	94,735.02 55,344.52 -2,306.02 20,542.41		1,247.08
26 11 16 11-0075	EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	97,905.39 57,163.60 -2,381.82 21,223.26		1,316.36
26 11 16 11-0076	EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	104,534.51 60,891.67 -2,537.15 22,631.78		1,524.21
26 11 16 11-0077	EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	110,275.93 64,170.24 -2,673.76 23,861.64		1,662.76
26 11 16 11-0078	EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	125,671.92 73,075.28 -3,044.80 27,182.25		1,939.89
26 11 16 11-0079	EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	139,155.41 80,832.82 -3,368.03 30,082.11		2,217.02
26 11 16 11-0080	EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	162,416.85 94,290.86 -3,928.79 35,099.86		2,632.72
26 11 16 11-0081	EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	197,299.24 114,887.74 -4,786.99 42,707.47		2,909.84
26 11 16 11-0082	EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	239,281.29 139,910.69 -5,829.61 51,910.27		3,048.40
26 11 16 11-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt (26 11 16 11-0049)				
26 11 16 11-0084	EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	94,735.02 55,344.52 -2,306.02 20,542.41		1,247.08
26 11 16 11-0085	EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	97,905.39 57,163.60 -2,381.82 21,223.26		1,316.36
26 11 16 11-0086	EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	104,534.51 60,891.67 -2,537.15 22,631.78		1,524.21
26 11 16 11-0087	EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	110,275.93 64,170.24 -2,673.76 23,861.64		1,662.76
26 11 16 11-0088	EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	125,671.92 73,075.28 -3,044.80 27,182.25		1,939.89
26 11 16 11-0089	EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	121,528.65 70,256.77 -2,927.37 26,204.22		2,217.02
26 11 16 11-0090	EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	126,204.62 72,563.52 -3,023.48 27,133.17		2,632.72
26 11 16 11-0091	EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	155,810.40 89,994.43 -3,749.77 33,579.93		2,909.84
26 11 16 11-0092	EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	185,506.27 107,645.68 -4,485.24 40,079.76		3,048.40

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0093 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	207,776.05 120,841.27 -5,035.05 44,945.86	3,186.97
26 11 16 11-0094 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	244,694.01 142,825.77 -5,951.07 53,034.56	3,325.53
26 11 16 11-0095 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	301,197.26 176,561.44 -7,356.73 65,432.01	3,464.10

26 12 Medium-Voltage Transformers (26 10)**26 12 13 Liquid-Filled, Medium-Voltage Transformers (26 12)****26 12 13 00-0001 Removal And Relocation Of Transformers (26 12 13)**

26 12 13 00-0002 EA Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer	1,427.94	
26 12 13 00-0003 EA Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers	2,627.80	

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers (26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent

Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA (26 12 13 00-0004)

26 12 13 00-0006 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	10,162.60	571.36
26 12 13 00-0007 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	12,140.80	714.20
26 12 13 00-0008 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	14,064.34	857.04
26 12 13 00-0009 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	18,274.99	1,071.29
26 12 13 00-0010 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	21,666.02	1,285.55
26 12 13 00-0011 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	30,602.63	1,499.82
26 12 13 00-0012 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	36,230.23	1,785.49

26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent

Taps FCAN And FCBN. Rated To 5 KVA (26 12 13 00-0004)

26 12 13 00-0014 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	10,162.60	571.36
26 12 13 00-0015 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	12,388.48	714.20
26 12 13 00-0016 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	14,064.34	857.04
26 12 13 00-0017 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	18,274.99	1,071.29
26 12 13 00-0018 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	21,666.02	1,285.55
26 12 13 00-0019 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	28,056.72	1,499.82
26 12 13 00-0020 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	34,937.39	1,785.49

26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps

FCBN And FCAN (26 12 13 00-0004)

26 12 13 00-0022 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	9,873.63	571.36
26 12 13 00-0023 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	11,356.46	714.20
26 12 13 00-0024 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	13,288.63	857.04
26 12 13 00-0025 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	18,095.98	1,071.29
26 12 13 00-0026 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	20,910.20	1,285.55
26 12 13 00-0027 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	28,534.08	1,499.82
26 12 13 00-0028 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	35,056.73	1,785.49

26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent

Taps FCBN And FCAN (26 12 13 00-0004)

26 12 13 00-0030 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	11,215.26	571.36
26 12 13 00-0031 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	12,739.37	714.20
26 12 13 00-0032 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	16,911.60	857.04
26 12 13 00-0033 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	21,321.15	1,071.29
26 12 13 00-0034 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	24,525.66	1,285.55
26 12 13 00-0035 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	33,881.09	1,499.82
26 12 13 00-0036 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	43,688.57	1,785.49

26 12 13 00-0037 Transformer Platforms (26 12 13 00-0004)

26 12 13 00-0038 EA Transformer Platforms, 75 - 167 KVA	5,604.68	964.88

26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops

FCBN Auto FCAN (26 12 13 00-0004)

26 12 13 00-0040 EA 10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	12,438.68	571.36
26 12 13 00-0041 EA 15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	13,850.20	714.20
26 12 13 00-0042 EA 25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	16,912.97	857.04
26 12 13 00-0043 EA 37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	21,319.47	1,071.29



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0044 EA 50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	24,667.91	1,356.97
26 12 13 00-0045 EA 75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	33,885.29	1,499.82
26 12 13 00-0046 EA 100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	43,688.57	1,785.49
26 12 13 00-0047 EA 167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	58,573.86	2,285.43
26 12 13 00-0048 EA 250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	74,781.06	3,071.04
26 12 13 00-0049 EA 333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	87,639.82	3,570.99
26 12 13 00-0050 EA 500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	112,229.20	3,856.66
26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL (26 12 13 00-0004)		
26 12 13 00-0052 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	10,162.60	699.62
26 12 13 00-0053 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	12,140.80	874.46
26 12 13 00-0054 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	14,063.75	1,048.30
26 12 13 00-0055 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	18,276.38	1,313.69
26 12 13 00-0056 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	21,664.70	1,573.66
26 12 13 00-0057 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	30,600.84	1,832.77
26 12 13 00-0058 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	36,230.23	2,186.30
26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN (26 12 13 00-0004)		
26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,162.60	699.62
26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	12,388.48	874.46
26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,063.75	1,048.30
26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	18,276.38	1,313.69
26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	21,664.70	1,573.66
26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	28,054.93	1,832.77
26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	34,937.39	2,186.30
26 12 13 00-0067 Primary 7.2 To 14.4 KV Ground Y (26 12 13 00-0004)		
26 12 13 00-0068 Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN (26 12 13 00-0067)		
26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,991.60	571.36
26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,478.18	714.20
26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,906.50	857.04
26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,342.31	1,071.29
26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	18,050.74	1,285.55
26 12 13 00-0074 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	29,263.34	1,499.82
26 12 13 00-0075 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	33,593.50	1,785.49
26 12 13 00-0076 Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN (26 12 13 00-0067)		
26 12 13 00-0077 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,334.85	571.36
26 12 13 00-0078 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,652.56	714.20
26 12 13 00-0079 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,531.22	857.04
26 12 13 00-0080 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,591.74	1,071.29
26 12 13 00-0081 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	17,018.72	1,285.55
26 12 13 00-0082 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	25,510.52	1,499.82
26 12 13 00-0083 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	29,840.69	1,785.49
26 12 16 Dry-Type, Medium-Voltage Transformers (26 12)		
26 12 16 00-0001 Removal and Relocation of Transformers (26 12 16)		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	575.04	
26 12 16 00-0003 EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer	2,555.73	
26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers (26 12)		
26 12 19 00-0001 Single Phase Pad Mounted Oil Filled Distribution Transformers (26 12 19)		
Note: Designed for residential and multi-family buildings. UL listed.		
26 12 19 00-0002 Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled (26 12 19 00-0001)		
Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.		
26 12 19 00-0003 Primary, 4.16/4.8 KV Ground Y Or Delta (26 12 19 00-0002)		
Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.		
26 12 19 00-0004 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	24,745.82	692.82
26 12 19 00-0005 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	26,792.86	831.38
26 12 19 00-0006 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	31,974.41	969.95
26 12 19 00-0007 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	39,834.40	1,039.23

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0008 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	45,343.51	1,108.51
26 12 19 00-0009 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	59,330.96	1,454.92
26 12 19 00-0010 Factory Modifications Material Cost Only (26 12 19 00-0002)		
26 12 19 00-0011 EA Loadbreaker Current Limiting Fuse Factory Modifications	5,593.47	
26 12 19 00-0012 EA Loadbreaker Oil Switch, 2 Position Factory Modifications	5,877.20	
26 12 19 00-0013 EA Loadbreaker Inserts, Factory Modifications	6,464.92	
26 12 19 00-0014 Distribution - Single Phase Multiple Building Transformer (26 12 19 00-0001)		
Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.		
26 12 19 00-0015 Primary, 4.16/4.8 KVA Ground Y Or Delta (26 12 19 00-0014)		
Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0016 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	31,541.54	692.82
26 12 19 00-0017 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	35,348.50	692.82
26 12 19 00-0018 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	37,838.57	949.16
26 12 19 00-0019 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	47,553.44	949.16
26 12 19 00-0020 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	53,436.06	1,247.08
26 12 19 00-0021 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	64,009.02	1,247.08
26 12 19 00-0022 EA 250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	104,314.73	1,732.04
26 12 19 00-0023 Factory Modifications Material Cost Only (26 12 19 00-0014)		
26 12 19 00-0024 EA Loadbreaker Current Limiting Fuse Factory Modifications	7,457.96	
26 12 19 00-0025 EA Lightning Arrestors, Factory Modifications	1,889.64	
26 12 19 00-0026 EA Loadbreaker Oil Switch, 2 Position Factory Modifications	5,877.20	
26 12 19 00-0027 EA Loop Feed Air Switch, Factory Modifications	9,565.65	
26 12 19 00-0028 EA Loadbreaker Inserts (Two), Factory Modifications	2,553.54	
26 12 19 00-0029 EA Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications	2,209.02	
26 12 19 00-0030 Primary, 12.47 KV Ground Y Or Delta (26 12 19 00-0014)		
Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0031 EA 25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	34,290.24	692.82
26 12 19 00-0032 EA 37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	36,277.87	692.82
26 12 19 00-0033 EA 50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	37,479.03	949.16
26 12 19 00-0034 EA 75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	45,379.10	949.16
26 12 19 00-0035 EA 100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	57,978.32	1,247.08
26 12 19 00-0036 EA 167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	72,047.94	1,247.21
26 12 19 00-0037 EA 250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	91,514.22	1,732.04
26 12 19 00-0038 Oil Filled Distribution Transformer Single Phase Cluster Mounted (26 12 19 00-0001)		
Note: Conventional type.		
26 12 19 00-0039 13.8/14.4 KV Ground Y Or Delta Primary 120/240V (26 12 19 00-0038)		
Note: 2.5 Taps FCBN and FCAN.		
26 12 19 00-0040 EA 10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	22,728.93	484.36
26 12 19 00-0041 EA 37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	27,995.58	681.12
26 12 19 00-0042 EA 50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	43,045.91	1,089.80
26 12 19 00-0043 EA 100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	78,108.19	1,089.80
26 12 19 00-0044 EA 167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	107,933.48	1,786.06
26 12 19 00-0045 EA 250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	145,816.39	1,786.06
26 12 19 00-0046 Oil Filled Distribution Transformer Single Phase (26 12 19 00-0001)		
26 12 19 00-0047 7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0048 EA 10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,997.09	514.63
26 12 19 00-0049 EA 15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	23,989.48	514.63
26 12 19 00-0050 EA 25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,371.37	726.54
26 12 19 00-0051 EA 37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	36,378.30	726.54



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0052 EA 50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	41,869.98	983.85
26 12 19 00-0053 EA 100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	76,239.16	1,513.62
26 12 19 00-0054 EA 167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	106,469.81	1,513.62
26 12 19 00-0055 EA 250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	143,557.08	1,892.02
26 12 19 00-0056 7.2 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0057 EA 10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,997.09	514.63
26 12 19 00-0058 EA 15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	23,990.23	514.63
26 12 19 00-0059 EA 25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,371.37	726.54
26 12 19 00-0060 EA 37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	36,378.30	726.54
26 12 19 00-0061 EA 50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	41,869.98	983.85
26 12 19 00-0062 EA 75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	65,329.20	1,331.99
26 12 19 00-0063 EA 100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	76,239.16	1,331.99
26 12 19 00-0064 EA 167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	106,469.81	1,680.12
26 12 19 00-0065 EA 250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	143,557.08	1,892.02
26 12 19 00-0066 2.4 KV Primary, 277 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0067 EA 10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	24,293.66	514.63
26 12 19 00-0068 EA 15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	26,492.28	514.63
26 12 19 00-0069 EA 25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	31,338.72	726.54
26 12 19 00-0070 EA 37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	40,168.98	726.54
26 12 19 00-0071 EA 50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	46,228.49	983.85
26 12 19 00-0072 EA 75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	71,969.63	1,331.99
26 12 19 00-0073 EA 100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	84,264.78	1,331.99
26 12 19 00-0074 EA 167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	117,734.45	1,680.12
26 12 19 00-0075 EA 250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	158,827.64	1,892.02
26 12 19 00-0076 2.4 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0077 EA 10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,997.09	514.63
26 12 19 00-0078 EA 15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	23,989.48	514.63
26 12 19 00-0079 EA 25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,371.37	988.55
26 12 19 00-0080 EA 37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	36,378.30	1,331.99
26 12 19 00-0081 EA 50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	41,869.98	983.85
26 12 19 00-0082 EA 75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	65,119.32	1,331.99
26 12 19 00-0083 EA 100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	76,224.16	1,331.99
26 12 19 00-0084 2.4 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0085 EA 10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,997.09	514.63
26 12 19 00-0086 EA 15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	23,989.48	514.63
26 12 19 00-0087 EA 25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,371.37	726.54
26 12 19 00-0088 EA 37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	36,378.30	726.54
26 12 19 00-0089 EA 50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	41,869.98	983.85
26 12 19 00-0090 EA 75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	65,119.32	1,331.99
26 12 19 00-0091 EA 100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	76,224.16	1,331.99
26 12 19 00-0092 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0093 EA 10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,427.73	529.76
26 12 19 00-0094 EA 15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	19,958.30	590.31
26 12 19 00-0095 EA 25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	24,479.51	650.85
26 12 19 00-0096 EA 37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	30,880.15	908.17
26 12 19 00-0097 EA 50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	34,265.89	1,059.53
26 12 19 00-0098 EA 75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	48,124.48	1,241.17
26 12 19 00-0099 EA 100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	58,172.22	1,422.80
26 12 19 00-0100 EA 167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	92,497.37	1,816.34
26 12 19 00-0101 EA 250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	129,449.53	2,043.38
26 12 19 00-0102 3 Phase Pad Mounted Oil Filled Distribution Transformers (26 12 19)		
26 12 19 00-0103 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt (26 12 19 00-0102)		
Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.		
26 12 19 00-0104 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	37,067.32	1,999.75
26 12 19 00-0105 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	46,835.69	2,142.59
26 12 19 00-0106 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	62,323.99	2,713.95
26 12 19 00-0107 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	81,502.04	3,428.14
26 12 19 00-0108 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	121,505.53	3,856.66
26 12 19 00-0109 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	152,338.80	5,142.21
26 12 19 00-0110 Pad Mounted Commercial Type Distribution Transformers UL Listed (26 12 19)		
26 12 19 00-0111 Distribution 3 Phase Oil Filled Transformer (26 12 19 00-0110)		
Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution.		
KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0112	Primary 4.16 / 4.8 KV, Ground Y / 13.8 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL (26 12 19 00-0111) Note: Rated to 5 KVA.			
26 12 19 00-0113	EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	56,247.25	1,662.76	
26 12 19 00-0114	EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	63,329.36	1,662.76	
26 12 19 00-0115	EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	72,680.03	2,868.27	
26 12 19 00-0116	EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	85,840.41	2,868.27	
26 12 19 00-0117	EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	96,519.66	4,295.48	
26 12 19 00-0118	EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	131,505.96	5,681.12	
26 12 19 00-0119	EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	174,954.79	7,205.31	
26 12 19 00-0120	EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	202,585.08	8,729.52	
26 12 19 00-0121	Primary 4.16 / 4.8 KV, Ground Y / 13.8 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL (26 12 19 00-0111) Note: Rated to 5 KVA.			
26 12 19 00-0122	EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	56,247.25	1,662.76	
26 12 19 00-0123	EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	63,329.36	1,662.76	
26 12 19 00-0124	EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	72,680.03	2,868.27	
26 12 19 00-0125	EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	86,245.87	2,868.27	
26 12 19 00-0126	EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	97,586.17	4,295.48	
26 12 19 00-0127	EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	131,758.31	5,681.12	
26 12 19 00-0128	EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	196,276.30	7,205.31	
26 12 19 00-0129	EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 13.8 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	207,142.02	8,729.52	
26 12 19 00-0130	Factory Modifications (26 12 19 00-0111) Note: For use with series 4100 3 phase transformers.			
26 12 19 00-0131	EA Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification	4,266.07		
26 12 19 00-0132	EA Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification	693.71		
26 12 19 00-0133	EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification	2,774.84		
26 12 19 00-0134	EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification	7,994.47		
26 12 19 00-0135	EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification	979.35		
26 12 19 00-0136	EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification	775.32		
26 12 19 00-0137	Accessories For Transformer Liquid Containment Area (26 12 19 00-0111) Note: Reinforced concrete curb with 6" slab.			
26 12 19 00-0138	EA Containment Area For 75 KVA	9,535.78	2,509.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,673.27		
26 12 19 00-0139	EA Containment Area For 112.5 KVA	9,535.78	2,509.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,673.27		
26 12 19 00-0140	EA Containment Area For 150 KVA	9,535.78	2,509.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,673.27		
26 12 19 00-0141	EA Containment Area For 225 KVA	9,535.78	2,509.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,673.27		
26 12 19 00-0142	EA Containment Area For 300 KVA	9,526.79	2,509.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,670.57		
26 12 19 00-0143	EA Containment Area For 500 KVA	9,526.79	2,509.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,670.57		
26 12 19 00-0144	EA Containment Area For 750 KVA	9,641.05	2,509.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,670.57		
26 12 19 00-0145	EA Containment Area For 1,000 KVA	11,297.79	2,509.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,670.57		
26 12 19 00-0146	Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL (26 12 19 00-0111) Note: Rated to 5 KVA.			
26 12 19 00-0147	EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	25,097.85	1,662.76	
26 12 19 00-0148	EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	27,546.23	1,662.76	
26 12 19 00-0149	EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	29,178.49	1,662.76	



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0150	EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	34,075.26	1,662.76
26 12 19 00-0151	EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	36,007.95	2,494.15
26 12 19 00-0152	EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	37,640.21	2,494.15
26 12 19 00-0153	EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	57,227.29	2,494.15
26 12 19 00-0154	EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	73,047.29	3,325.53
26 12 19 00-0155	EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	94,266.64	3,325.53
26 12 19 00-0156 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL (26 12 19 00-0111)				
Note: Rated to 5 KVA.				
26 12 19 00-0157	EA	45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	25,913.98	1,662.76
26 12 19 00-0158	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	29,178.49	1,662.76
26 12 19 00-0159	EA	112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	29,994.62	1,662.76
26 12 19 00-0160	EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	30,810.74	1,662.76
26 12 19 00-0161	EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	36,007.95	2,494.15
26 12 19 00-0162	EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	39,272.46	2,494.15
26 12 19 00-0163	EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	57,227.29	2,494.15
26 12 19 00-0164	EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	73,863.42	3,325.53
26 12 19 00-0165	EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	94,266.64	3,325.53
26 12 19 00-0166 Primary 5 KV Or 15 KV, Secondary 277/480 Volt (26 12 19 00-0110)				
Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.				
26 12 19 00-0167	EA	150 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	89,809.39	2,199.73
26 12 19 00-0168	EA	225 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	97,786.08	2,596.82
26 12 19 00-0169	EA	300 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	109,377.91	3,173.89
26 12 19 00-0170	EA	500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	130,615.79	3,570.99
26 12 19 00-0171	EA	750 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	161,628.05	3,758.81
26 12 19 00-0172	EA	1,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	193,877.46	5,492.17
26 12 19 00-0173	EA	1,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	228,655.43	6,213.51
26 12 19 00-0174	EA	2,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	287,226.09	7,141.96
26 12 19 00-0175	EA	2,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	318,502.04	7,499.07
26 12 19 00-0176	EA	3,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	335,152.84	8,356.38
26 12 19 00-0177	EA	3,750 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	386,419.66	8,927.74
26 12 19 00-0178 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled (26 12 19 00-0110)				
26 12 19 00-0179	EA	1,500 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	164,869.61	6,175.09
26 12 19 00-0180	EA	2,000 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	203,633.97	7,101.40
26 12 19 00-0181	EA	2,500 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	232,458.53	7,475.10
26 12 19 00-0182	EA	3,000 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	246,267.95	8,354.56
26 12 19 00-0183	EA	3,750 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	277,254.23	8,607.72
26 12 19 00-0184 Silicone Filled Distribution Transformers, 3 Phase (26 12 19 00-0110)				
Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.				
26 12 19 00-0185	EA	225 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	157,257.32	2,596.82
26 12 19 00-0186	EA	300 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	168,130.77	3,173.89
26 12 19 00-0187	EA	500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	197,237.73	3,570.99
26 12 19 00-0188	EA	750 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	240,053.61	3,758.81
26 12 19 00-0189	EA	1,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	285,963.38	5,492.17

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0190	EA	1,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	365,126.51	6,213.51
26 12 19 00-0191	EA	2,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	444,872.95	7,141.96
26 12 19 00-0192	EA	2,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	510,123.80	7,499.07

26 13 Medium-Voltage Switchgear (26 10)**26 13 16 Medium-Voltage Fusible Interrupter Switchgear** (26 13)**26 13 16 00-0001 "Switchyard", Substation Secondary Distribution Section** (26 13 16)

Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.

26 13 16 00-0002 4.16 Or 4.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)

26 13 16 00-0003	EA	1,200 Amperes, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	25,268.24	1,574.16
		For Weatherproofing, Add	5,338.28	
26 13 16 00-0004	EA	1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	26,619.86	1,574.16
		For Weatherproofing, Add	5,635.63	
26 13 16 00-0005	EA	1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	36,579.88	2,005.54
		For Weatherproofing, Add	7,782.03	
26 13 16 00-0006	EA	2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	50,409.14	2,005.54
		For Weatherproofing, Add	10,790.71	
26 13 16 00-0007	EA	2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	73,056.54	2,421.79
		For Weatherproofing, Add	15,732.85	
26 13 16 00-0008	EA	3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	66,250.34	2,421.79
		For Weatherproofing, Add	14,218.33	

26 13 16 00-0009 7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)

26 13 16 00-0010	EA	1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	38,477.11	1,816.34
		For Weatherproofing, Add	8,221.39	
26 13 16 00-0011	EA	2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	47,077.54	2,270.43
		For Weatherproofing, Add	10,038.88	
26 13 16 00-0012	EA	3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	66,873.37	2,724.52
		For Weatherproofing, Add	14,340.38	

26 13 16 00-0013 13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)

26 13 16 00-0014	EA	1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	36,849.88	1,816.34
		For Weatherproofing, Add	7,843.41	
26 13 16 00-0015	EA	1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	51,232.63	1,816.34
		For Weatherproofing, Add	10,964.07	
26 13 16 00-0016	EA	1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	75,666.50	2,421.79
		For Weatherproofing, Add	16,289.89	
26 13 16 00-0017	EA	2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	46,314.72	2,421.79
		For Weatherproofing, Add	9,852.88	
26 13 16 00-0018	EA	2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	68,231.58	3,027.23
		For Weatherproofing, Add	14,631.19	
26 13 16 00-0019	EA	2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	96,434.23	3,027.23
		For Weatherproofing, Add	20,790.02	
26 13 16 00-0020	EA	3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	65,452.38	3,027.23
		For Weatherproofing, Add	14,007.10	
26 13 16 00-0021	EA	3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	91,729.87	3,027.23
		For Weatherproofing, Add	19,744.55	
26 13 16 00-0022	EA	3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	119,689.75	3,027.23
		For Weatherproofing, Add	25,854.48	

26 13 16 00-0023 4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)

26 13 16 00-0024	EA	1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	10,984.86	991.42
		For Weatherproofing, Add	2,277.62	
26 13 16 00-0025	EA	1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	14,649.14	991.42
		For Weatherproofing, Add	3,083.76	
26 13 16 00-0026	EA	2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	15,593.49	1,316.84
		For Weatherproofing, Add	3,246.62	
26 13 16 00-0027	EA	2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	19,323.82	1,627.14
		For Weatherproofing, Add	4,023.38	
26 13 16 00-0028	EA	3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	26,740.03	1,627.14
		For Weatherproofing, Add	5,654.95	



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Switchgear		26 13	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 13 16 00-0029 7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)				
26 13 16 00-0030	EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	14,053.41		1,513.62
	For Weatherproofing, Add	2,933.38		
26 13 16 00-0031	EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	18,425.58		1,513.62
	For Weatherproofing, Add	3,850.65		
26 13 16 00-0032	EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	28,664.65		1,513.62
	For Weatherproofing, Add	6,059.25		
26 13 16 00-0033 13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)				
26 13 16 00-0034	EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	14,352.02		1,286.57
	For Weatherproofing, Add	2,978.17		
26 13 16 00-0035	EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	15,412.50		1,286.57
	For Weatherproofing, Add	3,211.47		
26 13 16 00-0036	EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	22,378.89		1,589.30
	For Weatherproofing, Add	4,699.83		
26 13 16 00-0037	EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	19,348.19		1,907.16
	For Weatherproofing, Add	3,989.04		
26 13 16 00-0038	EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	24,345.64		1,907.16
	For Weatherproofing, Add	5,088.48		
26 13 16 00-0039	EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	27,949.88		2,225.01
	For Weatherproofing, Add	5,836.43		
26 13 16 00-0040	EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	25,619.73		2,542.87
	For Weatherproofing, Add	5,279.60		
26 13 16 00-0041	EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	29,044.13		2,542.87
	For Weatherproofing, Add	6,032.96		
26 13 16 00-0042	EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section	36,119.44		2,845.60
	For Weatherproofing, Add	7,544.94		
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)				
26 13 16 00-0044	EA 1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section	6,571.41		959.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	575.52		
26 13 16 00-0045	EA 2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section	8,379.52		1,064.38
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	638.66		
26 13 16 00-0046	EA 3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section	11,070.61		1,280.52
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	768.33		
26 13 16 00-0047	EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section	5,638.23		1,925.77
26 13 16 00-0048	EA 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section	9,487.50		123.80
26 13 16 00-0049	EA 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section	12,724.31		123.80
26 13 16 00-0050	EA 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section	23,429.62		123.80
26 13 16 00-0051	EA 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section	18,379.89		123.80
26 13 16 00-0052	EA 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section	20,079.02		123.80
26 13 16 00-0053	EA 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section	27,387.60		123.80
26 13 16 00-0054	EA 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	4,213.27		123.80
26 13 16 00-0055	EA 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	4,782.21		123.80
26 13 16 00-0056	EA 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	7,343.98		123.80
26 13 16 00-0057	EA Overcurrent Phase Protection, Time And Instantaneous Device 67	4,645.36		123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28		
26 13 16 00-0058	EA AC Ammeter With Switch	1,723.77		123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28		
26 13 16 00-0059	EA AC Voltmeter With Switch And Potential Transformer	1,723.77		123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28		
26 13 16 00-0060	EA Indicating Wattmeter	2,621.77		123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28		
26 13 16 00-0061	EA Indicating Varmeter	3,119.98		123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28		
26 13 16 00-0062	EA Indicating Watt-hour Meter, 2 Element	1,902.14		123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28		
26 13 16 00-0063	EA Ground Protection, Time Or Instantaneous Device 67N	3,379.23		123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28		
26 13 16 00-0064	EA Differential Generator Protection Single Phase NEMA Device 87	8,961.62		123.80
26 13 16 00-0065	EA Current Transformers 5 And 15 KV Single Secondary	1,119.46		123.80
26 13 16 00-0066	EA Potential Transformers 5 KV And 15 KV With Primary Fuses	5,929.32		123.80
26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)				
26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)				
26 13 19 00-0002	EA 1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	96,013.48		1,892.02
26 13 19 00-0003	EA 1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	105,888.03		2,391.51
26 13 19 00-0004	EA 1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	120,156.61		2,391.51
26 13 19 00-0005	EA 2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	110,324.70		1,892.02
26 13 19 00-0006	EA 2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	124,394.69		1,892.02
26 13 19 00-0007	EA 2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	141,734.85		2,225.01
26 13 19 00-0008	EA 3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	145,948.32		2,542.87
26 13 19 00-0009	EA 3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	160,089.76		2,542.87
26 13 19 00-0010	EA 3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section	174,832.43		2,860.73

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 13 Medium-Voltage Switchgear**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 13 29 Medium-Voltage Compartmentalized Switchgear (26 13)

26 13 29 00-0001	Substation Secondary Distribution Section (26 13 29)		
	Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 13 29 00-0002	Switchgear Compartment Complete With Air Circuit Breaker (26 13 29 00-0001)		
	Note: With solid state long - time and instantaneous trips.		
26 13 29 00-0003	EA 800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	30,392.58	1,205.95
26 13 29 00-0004	EA 1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	47,485.56	1,823.28
26 13 29 00-0005	EA 2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	64,249.71	2,239.62
26 13 29 00-0006	EA 3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	108,046.20	2,598.53
26 13 29 00-0007	EA 4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	139,248.47	2,957.45
26 13 29 00-0008	Switchgear Compartment Without Circuit Breaker (26 13 29 00-0001)		
26 13 29 00-0009	EA 800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	13,430.43	366.09
26 13 29 00-0010	EA 1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	15,519.77	366.09
26 13 29 00-0011	EA 2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	20,308.95	538.37
26 13 29 00-0012	EA 3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	29,248.39	538.37
26 13 29 00-0013	EA 4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	49,054.60	789.61
26 13 29 00-0014	Switchgear Compartment, Blank, Use As Filler Or Metering (26 13 29 00-0001)		
	Note: No provisions for future breaker.		
26 13 29 00-0015	EA 600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	10,765.43	409.16
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	233.96	
26 13 29 00-0016	EA 3,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	13,553.88	409.16
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	274.65	
26 13 29 00-0017	EA 4,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	17,523.83	631.69
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	394.81	
26 13 29 00-0018	Accessories For Substation Secondary Distribution (26 13 29 00-0001)		
26 13 29 00-0019	EA Short Time Delay Accessories, Secondary Distribution Section.....	6,082.16	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 13 29 00-0020	EA Key Interlock Accessories, Secondary Distribution Section.....	4,680.81	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 13 29 00-0021	EA Ammeter And Switch Complete Accessories, Secondary Distribution Section.....	15,336.37	123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 13 29 00-0022	EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....	15,336.37	123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 13 29 00-0023	EA Wattmeter - Complete Accessories, Secondary Distribution Section.....	20,360.09	123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 13 29 00-0024	EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section.....	26,441.42	123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 13 29 00-0025	EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section.....	11,290.35	141.17
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.68	
26 13 29 00-0026	EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....	31,274.22	2,090.69
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,254.42	
26 13 29 00-0027	EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800.....	6,822.50	123.80
26 13 29 00-0028	EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section.....	8,053.45	123.80
26 13 29 00-0029	EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section.....	4,310.23	61.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.14	
26 13 29 00-0030	EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....	33,271.91	123.80
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 13 29 00-0031	EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section.....	4,098.70	61.90

26 18 Medium-Voltage Circuit Protection Devices (26 10)**26 18 36 Medium-Voltage Enclosed Fuses (26 18)**

26 18 36 00-0001	Sectionalizing Switch (26 18 36)		
26 18 36 00-0002	Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 36 00-0001)		
	Note: 15 KV - 25 KV.		
26 18 36 00-0003	Sectionalizing Tapping And Fusing Underground Feeders (26 18 36 00-0002)		
	Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004	EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	100,894.48	1,039.23
26 18 36 00-0005	EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	113,538.26	1,039.23

26 19 High-Voltage Circuit Protection (26 10)**26 19 18 Protection Devices (26 19)**

26 19 18 00-0001	Primary Fuse Cutouts (26 19 18)		
	Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 19 18 00-0002	Non-Loadbreak Current Limiting Primary Fuse Cutouts (26 19 18 00-0001)		
	Note: Includes the fuse and cutout switch.		
26 19 18 00-0003	8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
High-Voltage Circuit Protection		26 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 19 18 00-0004 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	843.08 181.64	378.40
26 19 18 00-0005 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	994.44 227.04	378.40
26 19 18 00-0006 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,145.29 272.30	378.40
26 19 18 00-0007 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,167.98 272.46	378.40
26 19 18 00-0008 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,167.98 272.46	378.40
26 19 18 00-0009 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0010 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	843.08 181.64	302.72
26 19 18 00-0011 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0012 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	873.05 181.64	302.72
26 19 18 00-0013 Fuseholders (26 19 18 00-0002) Note: Including current limiting fuse.		
26 19 18 00-0014 EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	716.77 181.64	378.40
26 19 18 00-0015 EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	868.13 227.04	378.40
26 19 18 00-0016 EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,018.98 272.30	378.40
26 19 18 00-0017 EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	727.15 181.64	378.40
26 19 18 00-0018 EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	878.51 227.04	378.40
26 19 18 00-0019 EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	716.77 181.64	302.72
26 19 18 00-0020 Accessories (26 19 18 00-0002)		
26 19 18 00-0021 EA Hot Line Clamp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.60 22.70	34.06
26 19 18 00-0022 EA Stirrup.....	116.12	34.06
26 19 18 00-0023 Loadbreak Current Limiting Primary Fuse Cutouts (26 19 18 00-0001) Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 19 18 00-0024 8.3 KV-95 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)		
26 19 18 00-0025 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,076.43 181.64	378.40
26 19 18 00-0026 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,227.79 227.04	378.40
26 19 18 00-0027 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,378.64 272.30	378.40
26 19 18 00-0028 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,423.08 272.46	378.40
26 19 18 00-0029 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,423.08 272.46	378.40
26 19 18 00-0030 17.1 KV-95 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)		
26 19 18 00-0031 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,076.43 181.64	302.72
26 19 18 00-0032 17.1 KV-125 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)		
26 19 18 00-0033 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,076.43 181.64	302.72
26 19 18 00-0034 Fuseholders (26 19 18 00-0023) Note: Includes current limiting fuses.		
26 19 18 00-0035 EA 15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	727.48 181.64	378.40
26 19 18 00-0036 EA 25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	878.84 227.04	378.40
26 19 18 00-0037 EA 40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,029.69 272.30	378.40
26 19 18 00-0038 EA 15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	727.48 181.64	378.40

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 19 High-Voltage Circuit Protection**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 19 18 00-0039	Pole Mounted Capacitors (26 19 18 00-0023)		
26 19 18 00-0040	EA Capacitors - Pole Mounted 6 KVAR.....	1,940.30	305.15

26 19 80 Transmission and Distribution Accessories (26 19)**26 19 80 60 Structure Assemblies (26 19 80)**

26 19 80 60-0001	Pole Structure Assemblies (26 19 80 60)		
26 19 80 60-0002	5 KV Pole Structure Assemblies (26 19 80 60-0001)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.			
26 19 80 60-0003	EA Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	618.27	287.59
26 19 80 60-0004	EA Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,033.21	484.36
26 19 80 60-0005	EA Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,177.03	378.40
26 19 80 60-0006	EA Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	672.40	196.77
26 19 80 60-0007	EA Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	853.13	272.45
26 19 80 60-0008	EA Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,492.19	544.91
26 19 80 60-0009	EA Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,170.77	408.68
26 19 80 60-0010	EA Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,139.81	817.35
26 19 80 60-0011	EA Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,431.89	923.31
26 19 80 60-0012	EA Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,328.37	454.09
26 19 80 60-0013	EA Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,127.40	484.36
26 19 80 60-0014	EA Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,117.52	983.85
26 19 80 60-0015	EA Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,614.38	590.31
26 19 80 60-0016	EA Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,007.88	423.82
26 19 80 60-0017	EA Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,894.85	862.77
26 19 80 60-0018	EA Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,489.61	438.95

26 19 80 60-0019 15 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0020	EA Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	648.24	287.59
26 19 80 60-0021	EA Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,076.02	484.36
26 19 80 60-0022	EA Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,322.61	378.40
26 19 80 60-0023	EA Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	723.78	196.77
26 19 80 60-0024	EA Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	925.91	257.32
26 19 80 60-0025	EA Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,637.77	544.91
26 19 80 60-0026	EA Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,277.81	408.68
26 19 80 60-0027	EA Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,358.17	817.35
26 19 80 60-0028	EA Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,727.32	923.31
26 19 80 60-0029	EA Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,473.95	454.09
26 19 80 60-0030	EA Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,183.06	484.36
26 19 80 60-0031	EA Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,173.18	983.85
26 19 80 60-0032	EA Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,725.70	590.31
26 19 80 60-0033	EA Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,063.54	408.68
26 19 80 60-0034	EA Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,950.51	862.77
26 19 80 60-0035	EA Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,600.93	529.76

26 19 80 60-0036 25 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0037	EA Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,983.46	454.09
26 19 80 60-0038	EA Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,215.01	227.04
26 19 80 60-0039	EA Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,761.72	348.13
26 19 80 60-0040	EA Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,314.40	711.40
26 19 80 60-0041	EA Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,228.48	529.76
26 19 80 60-0042	EA Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,562.03	1,044.40
26 19 80 60-0043	EA Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,394.76	1,180.63
26 19 80 60-0044	EA Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,382.90	688.70
26 19 80 60-0045	EA Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,074.03	688.70

26 19 80 60-0046 50 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0047	EA Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,664.65	620.58
26 19 80 60-0048	EA Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,450.27	317.86
26 19 80 60-0049	EA Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,835.43	499.49
26 19 80 60-0050	EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,448.20	1,014.13
26 19 80 60-0051	EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,643.96	756.81
26 19 80 60-0052	EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	5,078.12	1,513.62
26 19 80 60-0053	EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	6,009.63	1,680.12
26 19 80 60-0054	EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,064.63	817.35
26 19 80 60-0055	EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,086.58	946.02
26 19 80 60-0056	EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,975.29	893.04

26 19 80 60-0057 Overhead To Underground Conversion Structures (26 19 80 60)

Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.



Electrical		26
Medium-Voltage Electrical Distribution		26 10
High-Voltage Circuit Protection		26 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 19 80 60-0058 5 KV Structures (26 19 80 60-0057) Note: Excludes pole.		
26 19 80 60-0059 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,353.09	3,027.23
26 19 80 60-0060 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,353.09	3,027.23
26 19 80 60-0061 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,353.09	3,027.23
26 19 80 60-0062 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,353.09	3,027.23
26 19 80 60-0063 15 KV Structures (26 19 80 60-0057) Note: Excludes pole.		
26 19 80 60-0064 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	6,554.55	3,027.23
26 19 80 60-0065 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	6,554.55	3,027.23
26 19 80 60-0066 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	6,554.55	3,027.23
26 19 80 60-0067 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	6,554.55	3,027.23
26 19 80 60-0068 25 KV Structures (26 19 80 60-0057) Note: Excludes pole.		
26 19 80 60-0069 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,774.32	3,027.23
26 19 80 60-0070 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,774.32	3,027.23
26 19 80 60-0071 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,774.32	3,027.23
26 19 80 60-0072 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	6,774.32	3,027.23
26 19 80 60-0073 Transformer Stations (26 19 80 60) Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 19 80 60-0074 5 KV Station (26 19 80 60-0073)		
26 19 80 60-0075 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	10,243.76	4,035.31
26 19 80 60-0076 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole	11,481.77	4,540.85
26 19 80 60-0077 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	12,719.78	5,044.88
26 19 80 60-0078 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole	12,719.78	5,044.88
26 19 80 60-0079 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole	10,243.76	4,035.31
26 19 80 60-0080 15 KV Stations (26 19 80 60-0073)		
26 19 80 60-0081 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	10,555.12	4,034.16
26 19 80 60-0082 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole	11,793.14	4,540.85
26 19 80 60-0083 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	13,031.15	5,044.88
26 19 80 60-0084 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole	13,031.15	5,044.88
26 19 80 60-0085 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole	10,555.12	4,035.31
26 19 80 60-0086 25 KV Stations (26 19 80 60-0073)		
26 19 80 60-0087 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	10,894.80	4,035.31
26 19 80 60-0088 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole	12,132.81	4,540.85
26 19 80 60-0089 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	13,370.82	5,044.88
26 19 80 60-0090 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole	13,370.82	5,044.88
26 19 80 60-0091 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole	10,894.80	4,035.31

26 20 Low-Voltage Electrical Distribution (26)

26 21 Low-Voltage Electrical Service Entrance (26 20)

See CSI section 26 05 13 00-0000 for wire and cables.

26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)

26 21 13 00-0001	Service Drop Cable And Weatherheads (26 21 13)		
26 21 13 00-0002	600 Volt Insulated Stranded Conductors (26 21 13 00-0001)		
26 21 13 00-0003	Aluminum Duplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0004	LF	#6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable	9.84 3.60
26 21 13 00-0005	LF	#4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable	11.93 4.26
26 21 13 00-0006	LF	#2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable	14.23 4.81
26 21 13 00-0007	LF	1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable	19.24 6.05
26 21 13 00-0008	Aluminum Triplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0009	LF	#6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	12.12 4.26
26 21 13 00-0010	LF	#4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	13.98 4.81
26 21 13 00-0011	LF	#2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	17.78 6.05
26 21 13 00-0012	LF	1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	22.47 7.38
26 21 13 00-0013	LF	2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	29.20 9.77
26 21 13 00-0014	LF	4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	37.53 12.10
26 21 13 00-0015	LF	336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	51.49 14.42

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 21 Low-Voltage Electrical Service Entrance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0017 LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	14.03	4.81
26 21 13 00-0018 LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	17.77	6.05
26 21 13 00-0019 LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	23.00	7.76
26 21 13 00-0020 LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	30.35	9.77
26 21 13 00-0021 LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	33.84	10.81
26 21 13 00-0022 LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	39.44	12.10
26 21 13 00-0023 LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	46.26	14.42
26 21 13 00-0024 LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	59.40	15.94
26 21 13 00-0025 Weatherproof Conduit Hubs (26 21 13 00-0002)		
26 21 13 00-0026 EA 1/2" Weatherproof Conduit Hubs	63.15	23.84
26 21 13 00-0027 EA 3/4" Weatherproof Conduit Hubs	72.08	27.10
26 21 13 00-0028 EA 1" Weatherproof Conduit Hubs	84.01	30.35
26 21 13 00-0029 EA 1-1/4" Weatherproof Conduit Hubs	117.62	40.64
26 21 13 00-0030 EA 1-1/2" Weatherproof Conduit Hubs	129.56	43.89
26 21 13 00-0031 EA 2" Weatherproof Conduit Hubs	168.95	50.94
26 21 13 00-0032 EA 2-1/2" Weatherproof Conduit Hubs	224.39	57.44
26 21 13 00-0033 EA 3" Weatherproof Conduit Hubs	291.48	67.74
26 21 13 00-0034 EA 4" Weatherproof Conduit Hubs	512.15	135.48
26 21 13 00-0035 Galvanized Threaded Service Entrance Weatherhead Cap (26 21 13 00-0002)		
26 21 13 00-0036 EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service	71.89	23.84
26 21 13 00-0037 EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service	82.55	27.10
26 21 13 00-0038 EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	94.78	30.35
26 21 13 00-0039 EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	127.42	40.64
26 21 13 00-0040 EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	144.90	43.89
26 21 13 00-0041 EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service	193.03	50.94
26 21 13 00-0042 EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service	335.81	57.44
26 21 13 00-0043 EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service	381.34	67.74
26 21 13 00-0044 EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service	617.56	135.48
26 21 13 00-0045 Aluminum Clamp-On Service Entrance Weatherhead Cap (26 21 13 00-0002)		
26 21 13 00-0046 EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	69.21	23.84
26 21 13 00-0047 EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	78.04	27.10
26 21 13 00-0048 EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service	88.69	30.21
26 21 13 00-0049 EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	117.77	40.64
26 21 13 00-0050 EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	131.87	43.89
26 21 13 00-0051 EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	155.81	50.94
26 21 13 00-0052 EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	266.00	57.44
26 21 13 00-0053 EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	346.24	67.74
26 21 13 00-0054 EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	485.01	101.61
26 21 13 00-0055 EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	575.78	135.48
26 21 13 00-0056 Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap (26 21 13 00-0002)		
26 21 13 00-0057 EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	64.95	23.84
26 21 13 00-0058 EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	74.29	27.10
26 21 13 00-0059 EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	84.30	30.21
26 21 13 00-0060 EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	112.33	40.64
26 21 13 00-0061 EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	122.29	43.89
26 21 13 00-0062 EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	149.53	50.94
26 21 13 00-0063 EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	245.74	57.44
26 21 13 00-0064 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	275.89	67.74
26 21 13 00-0065 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	471.81	101.61
26 21 13 00-0066 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	652.65	135.48
26 21 16 Low-Voltage Underground Electrical Service Entrance (26 21)		
26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial (26 21 16)		
Note: Excludes excavation and backfill.		
26 21 16 00-0002 MLF #6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	5,109.75	1,345.46
26 21 16 00-0003 MLF #4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	5,882.30	1,424.61
26 21 16 00-0004 MLF #2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	7,002.36	1,513.62
26 21 16 00-0005 MLF 1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	8,381.45	1,513.62
26 21 16 00-0006 MLF 2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	9,350.19	1,614.57
26 21 16 00-0007 MLF 3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	11,124.72	1,862.96
26 21 16 00-0008 MLF 4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	13,596.16	2,421.79

26 22 Low-Voltage Transformers (26 20)**26 22 13 Low-Voltage Distribution Transformers** (26 22)



	Electrical	26	
	Low-Voltage Electrical Distribution	26 20	26
	Low-Voltage Transformers	26 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers (26 22 13) Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.		
26 22 13 00-0003 EA 1 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	1,801.53	347.18
26 22 13 00-0004 EA 3 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,518.76	416.61
26 22 13 00-0005 EA 5 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	3,278.42	434.66
26 22 13 00-0006 EA 7.5 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	4,044.99	451.34
26 22 13 00-0007 EA 10 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	5,897.59	486.05
26 22 13 00-0008 EA 15 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	7,088.05	520.77
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	302.33	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	453.49	
26 22 13 00-0009 EA 25 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	7,784.78	555.48
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	333.69	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	500.54	
26 22 13 00-0010 EA 37.5 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	7,471.18	624.93
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	311.07	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	466.60	
26 22 13 00-0011 EA 50 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	8,958.93	694.36
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	378.51	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	567.77	
26 22 13 00-0012 EA 75 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	11,927.98	833.23
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	513.08	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	769.61	
26 22 13 00-0013 EA 100 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	15,215.96	972.10
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	663.59	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	995.38	
26 22 13 00-0014 EA 167 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	24,513.39	1,249.84
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,100.69	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,651.03	
26 22 13 00-0015 EA 250 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	44,817.31	1,527.59
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,088.11	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,132.16	
26 22 13 00-0016 EA 333 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	70,848.81	1,735.89
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	3,368.85	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	5,053.28	
26 22 13 00-0017 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018 EA 3 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,003.50	416.61
26 22 13 00-0019 EA 5 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,452.76	433.97
26 22 13 00-0020 EA 7.5 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	3,122.04	451.34
26 22 13 00-0021 EA 10 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	3,727.24	486.05
26 22 13 00-0022 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		
26 22 13 00-0023 EA 15 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	7,390.37	520.77
26 22 13 00-0024 EA 25 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	8,118.47	555.48
26 22 13 00-0025 208 x 230 Volt, 120 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0026 EA 0.5 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	1,476.84	312.46
26 22 13 00-0027 EA 1 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	1,684.97	347.18
26 22 13 00-0028 EA 2 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,244.62	381.89
26 22 13 00-0029 EA 3 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,620.55	416.61
26 22 13 00-0030 EA 5 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,969.64	434.66
26 22 13 00-0031 EA 7.5 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	3,439.67	451.34
26 22 13 00-0032 EA 10 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	4,513.07	486.05
26 22 13 00-0033 EA 15 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	6,300.49	520.77
26 22 13 00-0034 1 Phase Mounting Brackets (26 22 13 00-0001)		
26 22 13 00-0035 EA 1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....	686.23	247.60
26 22 13 00-0036 1 Phase Weathershields (26 22 13 00-0001) Note: Use with types DT-3 and DS-3.		
26 22 13 00-0037 EA 37.5 KVA 1 Phase Weathershields, Set Of 2.....	217.81	
26 22 13 00-0038 EA 50 KVA 1 Phase Weathershields, Set Of 2.....	277.64	
26 22 13 00-0039 EA 75 KVA 1 Phase Weathershields, Set Of 2.....	331.08	
26 22 13 00-0040 EA 100 KVA 1 Phase Weathershields, Set Of 2.....	394.97	
26 22 13 00-0041 EA 167 KVA 1 Phase Weathershields, Set Of 2.....	534.37	
26 22 13 00-0042 EA 250 KVA 1 Phase Weathershields, Set Of 2.....	638.92	
26 22 13 00-0043 EA 333 KVA 1 Phase Weathershields, Set Of 2.....	784.13	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0044 Packaged Power Supply (26 22 13 00-0001) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0045 EA 5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....	4,070.16	433.97
26 22 13 00-0046 EA 7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers.....	4,646.96	451.34
26 22 13 00-0047 EA 10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....	5,039.29	486.05
26 22 13 00-0048 EA 15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers.....	6,320.30	520.77
26 22 13 00-0049 EA 25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers.....	8,984.67	555.48
26 22 13 00-0050 240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)		
26 22 13 00-0051 EA 0.5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	3,035.40	312.46
26 22 13 00-0052 EA 1 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	4,440.75	347.18
26 22 13 00-0053 EA 2.5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	5,160.46	416.61
26 22 13 00-0054 EA 5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	5,746.98	433.97
26 22 13 00-0055 EA 7.5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	6,536.77	451.34
26 22 13 00-0056 EA 10 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	8,581.06	486.05
26 22 13 00-0057 EA 15 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	11,310.73	520.77
26 22 13 00-0058 600 Volt, 208/120 Volt, Dry General Purpose Transformer (26 22 13 00-0001)		
26 22 13 00-0059 EA 15 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	14,112.35	520.77
26 22 13 00-0060 EA 25 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	14,615.01	555.48
26 22 13 00-0061 EA 30 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	15,163.78	590.20
26 22 13 00-0062 EA 37.5 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	20,246.48	624.93
26 22 13 00-0063 EA 45 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	21,023.64	659.64
26 22 13 00-0064 EA 50 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	28,320.21	694.36
26 22 13 00-0065 3 Phase General Purpose "Dry Type" Transformer (26 22 13) Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0066 Packaged Power Supply (26 22 13 00-0065) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0067 EA 15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers.....	18,334.60	1,492.87
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	767.44	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,151.16	
26 22 13 00-0068 EA 22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers.....	22,214.59	1,597.02
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	951.03	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,426.54	
26 22 13 00-0069 EA 30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers.....	26,809.71	1,735.89
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,166.90	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,750.34	
26 22 13 00-0070 Drive Isolation Transformers (26 22 13 00-0065) Note: Only use in step-up applications.		
26 22 13 00-0071 230 Volt Drive Isolation Transformers (26 22 13 00-0070)		
26 22 13 00-0072 EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,830.16	555.48
26 22 13 00-0073 EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,904.43	590.20
26 22 13 00-0074 EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,374.83	624.93
26 22 13 00-0075 EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,047.88	659.64
26 22 13 00-0076 EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,598.41	729.07
26 22 13 00-0077 EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	19,351.84	798.52
26 22 13 00-0078 EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	21,917.90	867.95
26 22 13 00-0079 EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	25,542.45	972.10
26 22 13 00-0080 EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	27,691.57	1,006.82
26 22 13 00-0081 EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	32,096.79	1,041.54
26 22 13 00-0082 EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	40,629.31	1,076.25
26 22 13 00-0083 EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	45,493.92	1,319.28
26 22 13 00-0084 EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	50,834.67	1,388.72
26 22 13 00-0085 EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	58,378.07	1,458.15
26 22 13 00-0086 EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	71,256.61	1,735.89
26 22 13 00-0087 EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	94,677.85	2,048.36
26 22 13 00-0088 EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	99,831.22	2,256.66
26 22 13 00-0089 EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	121,846.54	2,499.69
26 22 13 00-0090 EA 550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	150,726.34	2,777.43
26 22 13 00-0091 208V Drive Isolation Transformers (26 22 13 00-0070)		
26 22 13 00-0092 EA 7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,375.76	555.48
26 22 13 00-0093 EA 11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,552.09	590.20
26 22 13 00-0094 EA 15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,042.89	624.93
26 22 13 00-0095 EA 20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,848.47	659.64
26 22 13 00-0096 EA 27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	18,419.95	729.07
26 22 13 00-0097 EA 30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,186.13	763.79
26 22 13 00-0098 EA 45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	23,014.61	902.66
26 22 13 00-0099 EA 51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	26,743.60	972.10



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Transformers	26 22	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0100	EA		63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	28,998.58	1,006.82
26 22 13 00-0101	EA		75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	33,624.49	1,041.54
26 22 13 00-0102	EA		93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	42,587.79	1,076.25
26 22 13 00-0103	EA		118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	47,675.26	1,319.28
26 22 13 00-0104	EA		145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	53,280.79	1,388.72
26 22 13 00-0105	EA		175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	61,201.07	1,458.15
26 22 13 00-0106	EA		220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	74,706.87	1,735.89
26 22 13 00-0107			480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps (26 22 13 00-0065)		
26 22 13 00-0108	EA		9 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	8,130.20	572.85
26 22 13 00-0109	EA		15 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	10,833.44	624.93
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	479.18	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	718.77	
26 22 13 00-0110			480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps (26 22 13 00-0065)		
26 22 13 00-0111	EA		30 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	12,054.92	763.79
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	526.37	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	789.55	
			For K4 Factor Rating, Add	7,369.13	
			For K13 Factor Rating, Add	10,527.33	
			For K20 Factor Rating, Add	13,685.53	
26 22 13 00-0112	EA		37.5 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	14,678.82	833.23
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	650.62	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	975.93	
			For K4 Factor Rating, Add	9,108.65	
			For K13 Factor Rating, Add	13,012.36	
			For K20 Factor Rating, Add	16,916.07	
26 22 13 00-0113	EA		45 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	15,302.47	902.66
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	674.86	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,012.28	
			For K4 Factor Rating, Add	9,447.99	
			For K13 Factor Rating, Add	13,497.13	
			For K20 Factor Rating, Add	17,546.27	
26 22 13 00-0114	EA		50 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	20,391.78	972.10
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	922.38	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,383.57	
			For K4 Factor Rating, Add	12,913.31	
			For K13 Factor Rating, Add	18,447.58	
			For K20 Factor Rating, Add	23,981.85	
26 22 13 00-0115	EA		75 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	19,992.89	1,041.54
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	895.49	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,343.24	
			For K4 Factor Rating, Add	12,536.87	
			For K13 Factor Rating, Add	17,909.82	
			For K20 Factor Rating, Add	23,282.77	
26 22 13 00-0116	EA		112.5 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	24,951.72	1,249.84
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,122.60	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,683.90	
			For K4 Factor Rating, Add	15,716.42	
			For K13 Factor Rating, Add	22,452.03	
			For K20 Factor Rating, Add	29,187.64	
26 22 13 00-0117	EA		150 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	32,720.67	1,388.72
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,497.16	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	2,245.74	
			For K4 Factor Rating, Add	20,960.27	
			For K13 Factor Rating, Add	29,943.24	
			For K20 Factor Rating, Add	38,926.21	
26 22 13 00-0118	EA		225 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	44,843.98	1,735.89
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,068.61	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,102.91	
			For K4 Factor Rating, Add	28,960.53	
			For K13 Factor Rating, Add	41,372.19	
			For K20 Factor Rating, Add	53,783.85	
26 22 13 00-0119	EA		300 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	54,610.53	2,152.51
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,515.28	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,772.91	
			For K4 Factor Rating, Add	35,213.86	
			For K13 Factor Rating, Add	50,305.51	
			For K20 Factor Rating, Add	65,397.16	
26 22 13 00-0120	EA		500 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	78,941.38	2,638.56
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	3,683.21	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	5,524.82	
			For K4 Factor Rating, Add	51,564.98	
			For K13 Factor Rating, Add	73,664.26	
			For K20 Factor Rating, Add	95,763.54	
26 22 13 00-0121	EA		750 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	186,072.08	3,186.97
			For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	8,984.20	
			For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	13,476.30	
			For K4 Factor Rating, Add	125,778.79	
			For K13 Factor Rating, Add	179,683.99	
			For K20 Factor Rating, Add	233,589.19	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0122 EA 1,000 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	246,169.49 11,961.30 17,941.94 167,458.14 239,225.91 310,993.68	3,471.79
26 22 13 00-0123 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps (26 22 13 00-0065)		
26 22 13 00-0124 EA 6 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	6,519.94 3,810.58 5,443.69 7,076.80	538.13
26 22 13 00-0125 EA 9 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	8,130.20 4,889.16 6,984.51 9,079.86	572.85
26 22 13 00-0126 EA 15 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	10,833.44 479.18 718.77 6,708.52 9,583.60 12,458.68	624.93
26 22 13 00-0127 480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps (26 22 13 00-0065)		
26 22 13 00-0128 EA 30 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	21,566.79 1,001.96 1,502.94 14,027.44 20,039.20 26,050.96	763.79
26 22 13 00-0129 EA 45 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	24,104.98 1,114.98 1,672.47 15,609.75 22,299.64 28,989.53	902.66
26 22 13 00-0130 EA 75 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	35,998.17 1,695.76 2,543.63 23,740.57 33,915.10 44,089.63	1,041.54
26 22 13 00-0131 EA 112.5 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	45,278.78 2,138.95 3,208.43 29,945.36 42,779.09 55,612.82	1,249.84
26 22 13 00-0132 EA 150 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	54,708.34 2,596.55 3,894.82 36,351.64 51,930.91 67,510.18	1,388.72
26 22 13 00-0133 EA 225 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	70,192.94 3,336.06 5,004.09 46,704.81 66,721.15 86,737.50	1,735.89
26 22 13 00-0134 EA 300 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	85,283.04 4,048.90 6,073.35 56,684.61 80,978.02 105,271.43	2,152.51
26 22 13 00-0135 EA 500 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	138,279.17 6,650.10 9,975.15 93,101.44 133,002.05 172,902.67	2,638.56
26 22 13 00-0136 3 Phase 60 Hz K20 Dry Type Transformers (26 22 13 00-0065)		
26 22 13 00-0137 3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise (26 22 13 00-0136) Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0138 EA 15 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer	10,063.03	624.93
26 22 13 00-0139 EA 30 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer	15,488.15	763.79



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Transformers		26 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0140 EA 45 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	23,063.66	902.66
26 22 13 00-0141 EA 75 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	29,640.15	1,041.54
26 22 13 00-0142 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	45,007.86	1,249.84
26 22 13 00-0143 EA 150 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	54,945.39	1,388.72
26 22 13 00-0144 EA 225 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	63,716.39	1,735.89
26 22 13 00-0145 EA 300 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	102,122.06	2,152.51
26 22 13 00-0146 3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise (26 22 13 00-0136)		
Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0147 EA 15 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	11,832.43	624.93
26 22 13 00-0148 EA 30 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	18,281.95	763.79
26 22 13 00-0149 EA 45 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	27,313.62	902.66
26 22 13 00-0150 EA 75 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	35,143.10	1,041.54
26 22 13 00-0151 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	53,507.80	1,249.84
26 22 13 00-0152 EA 150 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	65,384.06	1,388.72
26 22 13 00-0153 EA 225 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	75,763.61	1,735.89
26 22 13 00-0154 EA 300 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	121,687.16	2,152.51
26 22 13 00-0155 NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0065)		
26 22 13 00-0156 Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0155)		
Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0157 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0156)		
26 22 13 00-0158 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,666.72	623.53
26 22 13 00-0159 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,473.43	762.10
26 22 13 00-0160 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,384.98	900.66
26 22 13 00-0161 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,156.32	1,039.23
26 22 13 00-0162 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,512.03	1,247.08
26 22 13 00-0163 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,761.02	1,385.64
26 22 13 00-0164 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	15,547.60	1,732.04
26 22 13 00-0165 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	21,760.58	2,147.74
26 22 13 00-0166 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0156)		
26 22 13 00-0167 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,394.72	623.53
26 22 13 00-0168 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,355.26	762.10
26 22 13 00-0169 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,460.32	900.66
26 22 13 00-0170 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,679.92	1,039.23
26 22 13 00-0171 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,084.63	1,247.08
26 22 13 00-0172 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,457.95	1,385.64
26 22 13 00-0173 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	19,172.89	1,732.04
26 22 13 00-0174 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	27,000.11	2,147.74
26 22 13 00-0175 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0156)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0176	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,119.78	623.53
26 22 13 00-0177	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,239.54	762.10
26 22 13 00-0178	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,535.67	900.66
26 22 13 00-0179	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,201.08	1,039.23
26 22 13 00-0180	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	13,068.74	1,247.08
26 22 13 00-0181	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	17,154.87	1,385.64
26 22 13 00-0182	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	22,798.19	1,732.04
26 22 13 00-0183	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	32,239.64	2,147.74
26 22 13 00-0184		Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0155) Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0185		150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0184)		
26 22 13 00-0186	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,877.27	623.53
26 22 13 00-0187	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,945.60	762.10
26 22 13 00-0188	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,175.58	900.66
26 22 13 00-0189	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,694.02	1,039.23
26 22 13 00-0190	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	13,098.13	1,247.08
26 22 13 00-0191	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,348.98	1,385.64
26 22 13 00-0192	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,713.05	1,732.04
26 22 13 00-0193	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	30,674.39	2,147.74
26 22 13 00-0194		115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0184)		
26 22 13 00-0195	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,602.33	623.53
26 22 13 00-0196	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,829.88	762.10
26 22 13 00-0197	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,250.93	900.66
26 22 13 00-0198	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,217.64	1,039.23
26 22 13 00-0199	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,958.58	1,247.08
26 22 13 00-0200	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,311.71	1,385.64
26 22 13 00-0201	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	27,190.19	1,732.04
26 22 13 00-0202	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	40,347.56	2,147.74
26 22 13 00-0203		80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0184)		
26 22 13 00-0204	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,329.84	623.53
26 22 13 00-0205	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,714.15	762.10
26 22 13 00-0206	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,326.26	900.66
26 22 13 00-0207	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	12,738.78	1,039.23
26 22 13 00-0208	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	20,059.69	1,247.08
26 22 13 00-0209	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	25,811.49	1,385.64
26 22 13 00-0210	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	32,664.87	1,732.04
26 22 13 00-0211	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	48,073.36	2,147.74



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Transformers		26 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0212 3 Phase Weathershields (26 22 13 00-0065) Note: Use with type DT-3 and DS-3.		
26 22 13 00-0213 EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	2,328.17	
26 22 13 00-0214 EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	3,953.66	
26 22 13 00-0215 EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	3,953.66	
26 22 13 00-0216 Three Phase Mounting Brackets (26 22 13 00-0065)		
26 22 13 00-0217 EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA	1,738.02	247.60
26 22 13 00-0218 Foam Core Poly Transformer Pads (26 22 13)		
26 22 13 00-0219 EA Single Phase Foam Core Poly Pads..... Note: Excludes site prep.	591.82	46.32
26 24 Switchboards and Panelboards (26 24)		
26 24 13 Switchboards (26 24)		
Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.		
26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0002 Incoming Service Section Main Device Only (26 24 13 00-0001) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0003 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,337.23	1,185.03
26 24 13 00-0004 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,781.11	1,253.44
26 24 13 00-0005 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,511.45	1,421.84
26 24 13 00-0006 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,088.86	1,524.26
26 24 13 00-0007 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	12,692.87	1,625.19
26 24 13 00-0008 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	14,123.14	1,728.02
26 24 13 00-0009 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	5,163.97	1,185.03
26 24 13 00-0010 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,523.46	1,253.44
26 24 13 00-0011 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	8,978.78	1,423.06
26 24 13 00-0012 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,135.34	1,524.26
26 24 13 00-0013 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,692.87	1,626.82
26 24 13 00-0014 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,123.14	1,728.02
26 24 13 00-0015 EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	16,877.45	1,806.60
26 24 13 00-0016 EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	19,099.30	1,935.43
26 24 13 00-0017 EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	22,472.55	2,086.36
26 24 13 00-0018 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,031.04	1,049.95
26 24 13 00-0019 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,331.68	1,117.83
26 24 13 00-0020 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,818.54	1,286.77
26 24 13 00-0021 EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,103.40	1,340.83
26 24 13 00-0022 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,354.20	1,389.19
26 24 13 00-0023 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,758.63	1,489.44
26 24 13 00-0024 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,142.17	1,591.59
26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026 EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker.....	350.96	41.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.80	
26 24 13 00-0027 EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker	515.76	65.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.02	
26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker	1,365.67	118.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.12	
26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker	2,405.08	154.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.67	
26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker	4,320.39	379.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.57	
26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker.....	6,837.50	379.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.57	
26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....	11,106.89	676.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	405.62	
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035 EA 400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,121.33	1,537.67
26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,809.88	1,537.67
26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	9,868.00	1,998.30
26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	11,142.57	1,998.30
26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	3,897.47	1,049.95
26 24 13 00-0042 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	4,321.73	1,117.83
26 24 13 00-0043 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,472.57	1,286.77
26 24 13 00-0044 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	7,028.94	1,388.11
26 24 13 00-0045 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	4,682.28	1,049.95
26 24 13 00-0046 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	5,841.04	1,117.83
26 24 13 00-0047 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	8,102.57	1,286.77
26 24 13 00-0048 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	11,474.53	1,388.11
26 24 13 00-0049 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker	13,445.88	1,557.99
26 24 13 00-0050 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	2,791.37	914.34
26 24 13 00-0051 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	3,113.30	982.34
26 24 13 00-0052 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	3,654.10	1,151.29
26 24 13 00-0053 EA 1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	3,921.56	1,205.35
26 24 13 00-0054 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	4,178.91	1,253.44
26 24 13 00-0055 EA 1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	4,527.98	1,340.83
26 24 13 00-0056 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	4,867.86	1,421.84
26 24 13 00-0057 EA 2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	6,040.98	1,761.21
26 24 13 00-0058 EA 3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	6,747.98	1,930.56
26 24 13 00-0059 EA 4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug	7,873.91	2,082.97
26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker	193.55	35.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	21.54	
26 24 13 00-0062 EA 70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker	308.38	59.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	35.77	
26 24 13 00-0063 EA 125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker	904.49	83.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	49.99	
26 24 13 00-0064 EA 100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker	2,553.41	107.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	64.22	
26 24 13 00-0065 EA 300 To 600 Amperes, 120/240 Volt, MC Branch Breaker	4,054.89	260.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	156.47	
26 24 13 00-0066 EA 400 To 800 Amperes, 120/240 Volt, MC Branch Breaker	5,725.13	260.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	156.47	
26 24 13 00-0067 EA 600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker	9,464.46	497.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	298.76	
26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0069 Incoming Service Section Main Device Only (26 24 13 00-0068)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,338.89	1,185.03
26 24 13 00-0071 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,779.26	1,253.44
26 24 13 00-0072 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,509.06	1,421.84
26 24 13 00-0073 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,086.11	1,524.26
26 24 13 00-0074 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	12,686.62	1,625.19
26 24 13 00-0075 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	14,123.14	1,728.02
26 24 13 00-0076 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	5,165.63	1,185.03
26 24 13 00-0077 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,521.61	1,253.44
26 24 13 00-0078 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	8,978.78	1,423.06
26 24 13 00-0079 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,132.59	1,524.26
26 24 13 00-0080 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,689.75	1,626.82
26 24 13 00-0081 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,123.14	1,728.02
26 24 13 00-0082 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,161.29	1,049.95
26 24 13 00-0083 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,515.11	1,117.83
26 24 13 00-0084 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,092.98	1,286.77
26 24 13 00-0085 EA 1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,388.80	1,340.83
26 24 13 00-0086 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,673.41	1,389.19
26 24 13 00-0087 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	5,066.64	1,489.44
26 24 13 00-0088 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	5,465.54	1,591.59
26 24 13 00-0089 EA 2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	6,460.35	1,808.63
26 24 13 00-0090 EA 3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	7,124.99	1,935.30
26 24 13 00-0091 EA 4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	8,341.90	2,079.58
26 24 13 00-0092 Branch Breaker Units (26 24 13 00-0068)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093 EA 15 To 60 Amperes, 120/208 Volt, MC Branch Breaker	350.96	41.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	24.80	
26 24 13 00-0094 EA 70 To 100 Amperes, 120/208 Volt, MC Branch Breaker	515.76	65.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	39.02	
26 24 13 00-0095 EA 125 To 225 Amperes, 120/208 Volt, MC Branch Breaker	1,365.67	118.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	71.12	
26 24 13 00-0096 EA 100 To 400 Amperes, 120/208 Volt, MC Branch Breaker	2,405.08	154.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	92.67	



Electrical			26
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0097	EA		300 To 600 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,320.39 227.57	379.34
26 24 13 00-0098	EA		400 To 800 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,837.50 227.57	379.34
26 24 13 00-0099	EA		600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,106.89 405.62	676.04
26 24 13 00-0100			Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0101			Incoming Service Section Main Device Only (26 24 13 00-0100) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102	EA		400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,655.17	1,625.19
26 24 13 00-0103	EA		600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,187.81	1,728.02
26 24 13 00-0104	EA		800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,618.42	1,928.79
26 24 13 00-0105	EA		1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	9,406.10	2,065.23
26 24 13 00-0106	EA		400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	7,058.77	1,625.19
26 24 13 00-0107	EA		600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,333.77	1,728.02
26 24 13 00-0108	EA		800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	10,566.42	1,930.97
26 24 13 00-0109	EA		1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,214.45	2,065.23
26 24 13 00-0110	EA		1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,840.54	2,202.19
26 24 13 00-0111	EA		2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	15,345.18	2,339.02
26 24 13 00-0112	EA		400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,161.29	1,049.95
26 24 13 00-0113	EA		600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,515.11	1,117.83
26 24 13 00-0114	EA		800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,092.98	1,286.77
26 24 13 00-0115	EA		1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,388.80	1,340.83
26 24 13 00-0116	EA		1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,673.41	1,389.19
26 24 13 00-0117	EA		1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,066.64	1,489.44
26 24 13 00-0118	EA		2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,465.54	1,591.59
26 24 13 00-0119			Branch Breaker Units (26 24 13 00-0100) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120	EA		15 To 60 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	711.51 24.80	41.32
26 24 13 00-0121	EA		70 To 100 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	825.99 39.02	65.03
26 24 13 00-0122	EA		125 To 225 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,498.15 71.12	118.54
26 24 13 00-0123	EA		100 To 400 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,405.08 92.67	154.45
26 24 13 00-0124	EA		300 To 600 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,765.92 227.57	379.34
26 24 13 00-0125	EA		400 To 800 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,895.05 227.57	379.34
26 24 13 00-0126	EA		600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,481.93 405.62	676.04
26 24 13 00-0127			Fusible Branch Circuit Switch (26 24 13) Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128			240 Volt, 2 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0129	EA		30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	754.64 293.16	106.35
26 24 13 00-0130	EA		30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	752.13 293.16	106.35
26 24 13 00-0131	EA		60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	752.13 293.16	106.35
26 24 13 00-0132	EA		60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,171.42 293.16	140.22
26 24 13 00-0133	EA		100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,171.42 293.16	140.22
26 24 13 00-0134			240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0135	EA		100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	857.36 280.84	104.32
26 24 13 00-0136	EA		200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,233.96 280.84	104.32
26 24 13 00-0137	EA		400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	3,176.06	281.11
26 24 13 00-0138			240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0139	EA		30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	961.49 293.16	119.90
26 24 13 00-0140	EA		30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	958.98 293.16	119.90
26 24 13 00-0141	EA		60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	958.98 293.16	119.90
26 24 13 00-0142	EA		60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,437.84 293.16	160.54

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0143 EA 100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,437.84 293.16	160.54
26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0145 EA 100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,035.53 293.16	117.87
26 24 13 00-0146 EA 200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,649.45 280.84	117.87
26 24 13 00-0147 EA 400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	4,232.90	314.71
26 24 13 00-0148 EA 600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	6,029.13	403.19
26 24 13 00-0149 EA 800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	11,152.86	546.25
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151 EA 30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,341.65 293.16	119.90
26 24 13 00-0152 EA 30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,339.11 293.16	119.90
26 24 13 00-0153 EA 60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,341.65 293.16	119.90
26 24 13 00-0154 EA 60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,011.44 293.16	160.54
26 24 13 00-0155 EA 100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,053.89 293.16	160.54
26 24 13 00-0156 EA 200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	4,328.75 293.16	209.99
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158 EA 100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,444.98 293.16	117.87
26 24 13 00-0159 EA 200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	2,169.26 280.84	117.87
26 24 13 00-0160 EA 400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	5,287.29 280.84	314.71
26 24 13 00-0161 EA 600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	6,428.22	403.19
26 24 13 00-0162 EA 800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	11,152.86	546.25
26 24 13 00-0163 Service And Distribution Structures (26 24 13)		
26 24 13 00-0164 Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)		
26 24 13 00-0165 600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,025.96	1,246.40
26 24 13 00-0167 EA 24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,578.47	1,246.40
26 24 13 00-0168 EA 34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,985.82	1,585.09
26 24 13 00-0169 EA 42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,423.49	1,585.09
26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,424.25	1,442.84
26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,959.47	1,442.84
26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,423.49	1,788.30
26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,816.67	1,788.30
26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,040.73	1,761.21
26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,590.73	1,761.21
26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,085.47	2,167.64
26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,661.49	2,167.64
26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,897.91	1,930.56
26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,566.33	1,930.56
26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,157.94	2,384.40
26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,659.70	2,384.40
26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,149.08	1,937.33
26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,876.49	2,181.19
26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,984.24	2,181.19
26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,250.10	2,303.12
26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,900.94	2,181.19



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,007.09	2,181.19
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,272.95	2,303.12
26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,074.64	2,303.12
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,272.95	2,303.12
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,368.94	2,303.12
26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board (26 24 13 00-0164)		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....	607.44	162.57
26 24 13 00-0200 EA Drilled Bottom For Pull Boy.....	685.67	162.57
26 24 13 00-0201 EA Cable Supports In Pull Box.....	236.08	40.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.58	
26 24 13 00-0202 Underground Pull Sections (26 24 13 00-0164)		
Note: Excludes no bus or terminal.		
26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal.....	598.82	189.67
26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal.....	1,014.46	243.86
26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal.....	1,014.46	243.86
26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	767.65	189.67
26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	1,084.52	277.73
26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,243.49	277.73
26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,310.76	359.01
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,392.73	359.01
26 24 13 00-0211 Switchboard Sections (26 24 13 00-0163)		
26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	4,720.40	1,128.94
26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,166.57	1,227.16
26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	6,490.69	1,568.02
26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,096.99	1,710.54
26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,567.52	1,820.95
26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section.....	5,478.06	990.34
26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,266.31	940.76
26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,610.57	1,020.15
26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....	10,219.10	1,128.94
26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	10,948.06	1,131.92
26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	12,008.43	1,263.74
26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	189.30	67.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.37	
26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	229.99	68.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.87	
26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame.....	986.21	81.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.29	
26 24 13 00-0226 EA 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,616.47	175.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	146.62	
26 24 13 00-0227 EA 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	660.53	244.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.68	
26 24 13 00-0228 EA 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	1,778.49	141.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.29	
26 24 13 00-0229 Switchboard, Structure Per Section Copper, 480 Volt (26 24 13 00-0163)		
26 24 13 00-0230 EA 225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	2,448.11	587.97
26 24 13 00-0231 EA 400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	3,466.25	795.12
26 24 13 00-0232 EA 600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	3,918.19	967.72
26 24 13 00-0233 EA 800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	4,993.71	1,354.78
26 24 13 00-0234 EA 1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	6,193.80	1,693.47
26 24 13 00-0235 EA 1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	6,759.18	1,693.47
26 24 13 00-0236 EA 2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	8,409.52	2,258.01
26 24 13 00-0237 EA 2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	9,493.60	2,258.01
26 24 13 00-0238 EA 3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	11,176.49	2,688.01
26 24 13 00-0239 EA 4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	13,171.29	2,688.01
26 24 13 00-0240 Main Devices (26 24 13)		
26 24 13 00-0241 Power Circuit Breakers (26 24 13 00-0240)		
26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241)		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243 EA 50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip.....	8,342.41	1,422.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	851.70	
26 24 13 00-0244 EA 50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip.....	15,137.47	2,370.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,421.09	
26 24 13 00-0245 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip.....	33,559.28	3,983.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,368.49	
26 24 13 00-0246 EA 4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip.....	54,141.04	6,448.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,938.30	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0247 EA Ground-Fault Trip All Power Breakers - Factory Installed.....	2,714.71	
26 24 13 00-0248 EA Key Interlock All Power Breakers - Factory Installed.....	350.60	
26 24 13 00-0249 EA Short Time Delay Selective Trip - Factory Installed.....	459.96	
26 24 13 00-0250 EA Shunt Trip Manually Open Breakers - Factory Installed.....	331.30	
26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241)		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252 EA 50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip.....	9,710.65	1,490.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	898.39	
26 24 13 00-0253 EA 50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip.....	17,928.05	2,506.33
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,496.44	
26 24 13 00-0254 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip.....	37,592.21	4,132.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,490.40	
26 24 13 00-0255 EA 4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip.....	58,261.93	6,773.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,164.27	
26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241)		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip.....	6,706.35	1,300.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	781.60	
26 24 13 00-0258 EA 50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip.....	12,188.84	2,181.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,302.67	
26 24 13 00-0259 EA 2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip.....	18,219.74	3,657.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,171.12	
26 24 13 00-0260 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip.....	31,360.10	5,893.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,615.95	
26 24 13 00-0261 EA 4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip.....	51,115.51	9,618.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,012.32	
26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241)		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263 EA 50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	7,798.55	1,246.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	745.48	
26 24 13 00-0264 EA 50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	14,458.98	2,086.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,242.15	
26 24 13 00-0265 EA 2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	20,784.81	3,468.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,073.64	
26 24 13 00-0266 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	34,325.07	5,649.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,456.06	
26 24 13 00-0267 EA 4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	53,912.84	9,686.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,773.20	
26 24 13 00-0268 Molded Case Circuit Breakers Conventional (26 24 13 00-0241)		
26 24 13 00-0269 EA 70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	3,055.18	1,138.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	655.54	
26 24 13 00-0270 EA 125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	4,311.51	1,138.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	713.04	
26 24 13 00-0271 EA 300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	4,776.47	1,354.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	781.60	
26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	5,625.61	1,354.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	846.74	
26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	8,139.76	1,625.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	927.93	
26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	12,853.49	1,625.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,026.35	
26 24 13 00-0275 EA Shunt Trip, Factory Installed.....	347.38	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	80.41	
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)		
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	587.03	98.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.90	
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	697.89	130.33
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.16	
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	1,949.90	196.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.74	
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,572.43	246.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.69	
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,125.72	330.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	198.07	
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,784.26	423.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	254.02	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,073.26	645.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	387.08	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,073.26	645.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	387.08	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 24 13 00-0286	EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8,517.49 541.91		903.23
26 24 13 00-0287	EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10,714.10 812.87		1,354.78
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)				
26 24 13 00-0289	EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,843.07 352.81		587.97
26 24 13 00-0290	EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,954.86 386.34		643.93
26 24 13 00-0291	EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7,602.44 580.62		967.72
26 24 13 00-0292	EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12,890.24 812.87		1,354.78
26 24 13 00-0293	EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13,177.97 899.19		1,498.66
26 24 13 00-0294	EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17,664.92 1,612.83		2,688.01
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)				
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295) Note: Includes certified refurbished circuit breakers.				
26 24 13 00-0297	EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	687.83 32.51		48.77
26 24 13 00-0298	EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	694.65 40.64		60.96
26 24 13 00-0299	EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,671.57 48.77		73.16
26 24 13 00-0300	EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,423.92 63.00		94.83
26 24 13 00-0301	EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,417.43 78.04		117.06
26 24 13 00-0302	EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,476.00 91.45		136.84
26 24 13 00-0303	EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,832.79 103.23		154.45
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295) Note: Includes certified refurbished circuit breakers.				
26 24 13 00-0305	EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	473.94 24.39		36.58
26 24 13 00-0306	EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	608.93 32.51		48.77
26 24 13 00-0307	EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,665.66 40.64		60.96
26 24 13 00-0308	EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,639.06 44.71		67.74
26 24 13 00-0309	EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,788.79 58.93		88.06
26 24 13 00-0310	EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,320.46 85.35		128.03
26 24 13 00-0311 Meter Devices And Instrumentation (26 24 13) Note: Factory installed accessories.				
26 24 13 00-0312 Compartments For Instrument Transformers And Metering Devices (26 24 13 00-0311)				
26 24 13 00-0313	EA Compartment For, Up To 800 Amperes, Primary Current Transformer	419.75		
26 24 13 00-0314	EA Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer.....	606.31		
26 24 13 00-0315	EA Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer.....	714.06		
26 24 13 00-0316 Instruments (26 24 13 00-0311)				
26 24 13 00-0317	EA AC Voltmeter	572.53		
26 24 13 00-0318	EA AC Ammeter	572.53		
26 24 13 00-0319	EA AC Wattmeter	1,529.44		
26 24 13 00-0320	EA Variometer	1,727.25		
26 24 13 00-0321	EA Power Factor Meter	1,379.87		
26 24 13 00-0322	EA Frequency Meter.....	1,523.00		
26 24 13 00-0323	EA 200 Volt-Amperes Max Potential Transformer.....	514.64		
26 24 13 00-0324	EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,937.93		
26 24 13 00-0325	EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2	3,242.21		
26 24 13 00-0326	EA Weatherproof, Modify Meter	3,243.49		
26 24 13 00-0327	EA Control Switch Resistor Type 130 V	79.29		
26 24 13 00-0328	EA Metering Instrument: Voltage, Amperes And Watt Hour	3,910.93		
26 24 16 Panelboards (26 24)				

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0001	Branch Circuit Panelboard ^(26 24 16) Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002	Assembled Lighting And Power Panelboards ^(26 24 16 00-0001) Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003	120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards ^(26 24 16 00-0002)		
26 24 16 00-0004	EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers..... For NEMA 3R Panelboard, Add	1,315.21 1,620.27	386.12
26 24 16 00-0005	EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers..... For NEMA 3R Panelboard, Add	1,502.92 1,620.27	386.12
26 24 16 00-0006	EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers..... For NEMA 3R Panelboard, Add	1,713.26 1,620.27	535.14
26 24 16 00-0007	EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers..... For NEMA 3R Panelboard, Add	1,924.19 1,620.27	535.14
26 24 16 00-0008	EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers..... For NEMA 3R Panelboard, Add	2,124.29 1,620.27	670.62
26 24 16 00-0009	EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers..... For NEMA 3R Panelboard, Add	2,329.53 1,620.27	670.62
26 24 16 00-0010	EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers..... For NEMA 3R Panelboard, Add	2,527.38 1,620.27	772.22
26 24 16 00-0011	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	3,046.39 1,781.85 130.20	988.98
26 24 16 00-0012	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	3,213.86 1,781.85 130.20	988.98
26 24 16 00-0013	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	3,375.14 1,781.85 130.20	1,131.24
26 24 16 00-0014	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	3,633.40 2,104.80 222.37	1,131.24
26 24 16 00-0015	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	3,790.88 2,104.80 222.37	1,273.49
26 24 16 00-0016	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,028.40 2,104.80 222.37	1,273.49
26 24 16 00-0017	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,177.96 2,104.80 222.37	1,408.97
26 24 16 00-0018	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,411.01 2,104.80 222.37	1,408.97
26 24 16 00-0019	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,630.00 2,104.80 222.37	1,557.99
26 24 16 00-0020	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,777.27 2,190.66 284.20	1,557.99
26 24 16 00-0021	EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	5,002.78 2,190.66 284.20	1,557.99
26 24 16 00-0022	120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards ^(26 24 16 00-0002)		
26 24 16 00-0023	EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers..... For NEMA 3R Panelboard, Add	1,530.23 1,620.27	372.57
26 24 16 00-0024	EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers..... For NEMA 3R Panelboard, Add	1,720.88 1,620.27	372.57



Electrical		26
Low-Voltage Electrical Distribution		26 20
Switchboards and Panelboards		26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0025 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers 2,170.14 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		636.75
26 24 16 00-0026 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers 2,457.72 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		636.75
26 24 16 00-0027 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers 2,661.71 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		779.00
26 24 16 00-0028 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers 2,874.93 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		779.00
26 24 16 00-0029 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers 3,063.33 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		934.79
26 24 16 00-0030 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers 3,698.15 <i>For NEMA 3R Panelboard, Add</i> 1,781.85 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 130.20		934.79
26 24 16 00-0031 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers 3,867.67 <i>For NEMA 3R Panelboard, Add</i> 1,781.85 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 130.20		1,144.79
26 24 16 00-0032 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers 4,052.56 <i>For NEMA 3R Panelboard, Add</i> 1,781.85 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 130.20		1,144.79
26 24 16 00-0033 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers 4,255.88 <i>For NEMA 3R Panelboard, Add</i> 2,104.80 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 222.37		1,287.04
26 24 16 00-0034 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers 4,419.11 <i>For NEMA 3R Panelboard, Add</i> 2,104.80 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 222.37		1,287.04
26 24 16 00-0035 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers 4,593.71 <i>For NEMA 3R Panelboard, Add</i> 2,104.80 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 222.37		1,408.97
26 24 16 00-0036 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers 4,781.45 <i>For NEMA 3R Panelboard, Add</i> 2,104.80 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 222.37		1,408.97
26 24 16 00-0037 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers 4,984.45 <i>For NEMA 3R Panelboard, Add</i> 2,104.80 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 222.37		1,666.37
26 24 16 00-0038 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers 5,205.34 <i>For NEMA 3R Panelboard, Add</i> 2,104.80 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 222.37		1,666.37
26 24 16 00-0039 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers 5,447.37 <i>For NEMA 3R Panelboard, Add</i> 2,190.66 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 284.20		1,666.37
26 24 16 00-0040 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers 5,594.90 <i>For NEMA 3R Panelboard, Add</i> 2,190.66 <i>For Door-In-Door (Hinged) Trim Front, Add</i> 284.20		1,761.21
26 24 16 00-0041 120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0042 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers 1,580.31 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		440.31
26 24 16 00-0043 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers 1,780.82 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		440.31
26 24 16 00-0044 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers 2,006.98 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		589.33
26 24 16 00-0045 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers 2,242.61 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		589.33
26 24 16 00-0046 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers 2,455.08 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		724.81
26 24 16 00-0047 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers 2,682.71 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		724.81
26 24 16 00-0048 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers 2,896.10 <i>For NEMA 3R Panelboard, Add</i> 1,620.27		860.28

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0049	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,120.78 1,781.85 130.20	860.28
26 24 16 00-0050	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,325.14 1,781.85 130.20	1,009.30
26 24 16 00-0051	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,560.41 1,781.85 130.20	1,009.30
26 24 16 00-0052	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,803.99 1,781.85 130.20	1,165.11
26 24 16 00-0053	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,039.21 1,781.85 130.20	1,165.11
26 24 16 00-0054	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,521.21 2,104.80 222.37	1,408.97
26 24 16 00-0055	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,689.51 2,104.80 222.37	1,408.97
26 24 16 00-0056	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,961.68 2,104.80 222.37	1,564.77
26 24 16 00-0057	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,214.82 2,104.80 222.37	1,564.77
26 24 16 00-0058	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,388.47 2,190.66 284.20	1,707.02
26 24 16 00-0059	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,647.71 2,190.66 284.20	1,707.02
26 24 16 00-0060	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,415.36 2,104.80 222.37	1,514.64
26 24 16 00-0061	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,600.78 2,104.80 222.37	1,591.86
26 24 16 00-0062	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,886.35 2,104.80 222.37	1,676.53
26 24 16 00-0063	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,160.26 2,104.80 222.37	1,774.75
26 24 16 00-0064	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,346.11 2,190.66 284.20	1,828.95
26 24 16 00-0065	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,654.86 2,190.66 284.20	1,940.72
26 24 16 00-0066		120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0067	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	1,844.58 1,620.27	426.76
26 24 16 00-0068	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,047.85 1,620.27	426.76
26 24 16 00-0069	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,286.15 1,620.27	562.23
26 24 16 00-0070	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,604.28 1,620.27	562.23



Electrical		26
Low-Voltage Electrical Distribution		26 20
Switchboards and Panelboards		26 24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0071	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,118.22	846.73
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0072	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,324.83	846.73
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0073	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,550.65	988.98
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0074	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,741.51	988.98
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0075	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,993.59	1,144.79
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0076	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,171.34	1,144.79
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0077	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,446.30	1,287.04
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0078	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,678.71	1,287.04
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0079	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,477.56	1,490.25
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0080	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,726.37	1,571.54
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0081	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,835.92	1,571.54
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0082	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	6,117.16	1,774.75
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0083	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	6,307.82	1,774.75
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0084	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	6,441.57	1,774.75
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0085	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,400.04	1,632.50
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0086	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	6,673.79	1,727.34
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0087	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,787.46	1,774.75
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0088	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	7,092.07	1,883.14
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0089	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	7,282.02	1,937.33
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0090	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,467.70	2,005.07
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0091		480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0092	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,760.10	433.53
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0093	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,021.51	433.53
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0094	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,271.29	596.10
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0095	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,532.66	596.10
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0096	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	2,775.08	745.13
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0097	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,031.59	745.13
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0098	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,300.15	900.92
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0099	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,544.60	900.92
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0100	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	3,815.36	1,070.27
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0101	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,076.07	1,070.27
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0102	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	4,314.13	1,219.30
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0103	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	4,570.62	1,219.30
		<i>For NEMA 3R Panelboard, Add</i>	1,781.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0104	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	5,127.71	1,483.48
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0105	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,383.89	1,483.48
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0106	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	5,657.95	1,625.73
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0107	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,852.52	1,625.73
		<i>For NEMA 3R Panelboard, Add</i>	2,104.80	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0108	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	6,159.77	1,795.07
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0109	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	6,373.27	1,795.07
		<i>For NEMA 3R Panelboard, Add</i>	2,190.66	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0110		480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0111	EA	50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	2,225.90	460.63
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0112	EA	50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,480.88	501.27
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0113	EA	50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,738.90	623.20
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0114	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	3,299.06	758.67
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0115	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	3,547.83	839.96
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0116	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,772.81	907.70
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	
26 24 16 00-0117	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	4,022.81	988.98
		<i>For NEMA 3R Panelboard, Add</i>	1,620.27	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0118	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,262.62	1,070.27
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0119	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,480.30	1,138.02
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0120	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,715.32	1,205.75
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0121	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,971.30	1,287.04
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0122	EA	100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,252.95	1,388.65
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0123	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,530.18	1,544.44
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0124	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,799.41	1,639.28
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0125	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,984.97	1,679.92
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0126	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,290.24	1,788.30
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0127	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Panelboard With Forty 20 Ampere Breakers.....	7,496.39	1,856.05
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0128	EA	225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,710.92	1,914.30
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0129		277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0003)		
26 24 16 00-0130	EA	100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,123.00	474.18
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0131	EA	100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,410.51	474.18
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0132	EA	100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,689.80	629.97
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0133	EA	100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,971.61	629.97
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0134	EA	100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,258.51	779.00
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0135	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,538.83	779.00
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0136	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,824.28	934.79
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0137	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,108.37	934.79
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0138	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,421.62	1,097.37
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0139	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,679.05	1,097.37
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0140	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,952.79	1,104.15
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0141	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,246.18	1,104.15
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0142	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,985.39	1,530.90
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0143	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,285.04	1,530.90
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0144	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,509.26	1,612.18
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0145	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,839.35	1,720.56
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0146	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,080.86	1,720.56
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0147	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,450.66	1,883.14
		For NEMA 3R Panelboard, Add	2,190.66	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0148 277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)				
26 24 16 00-0149	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,745.81	582.56
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0150	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	3,040.86	582.56
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0151	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	3,323.62	772.22
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0152	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,963.32	772.22
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0153	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	4,239.24	975.44
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0154	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	4,514.66	975.44
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0155	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,779.91	1,117.70
		For NEMA 3R Panelboard, Add	1,620.27	
26 24 16 00-0156	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	5,023.00	1,117.70
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0157	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	5,283.45	1,273.49
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0158	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	5,564.84	1,273.49
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0159	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,803.09	1,408.97
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0160	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	6,054.49	1,408.97
		For NEMA 3R Panelboard, Add	1,781.85	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0161	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	7,807.73	1,666.37
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0162	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	8,117.64	1,666.37
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0163	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	8,338.96	1,822.18
		For NEMA 3R Panelboard, Add	2,104.80	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards and Panelboards	26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0164 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0165 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0166 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0167 EA 400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0168 EA 600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	8,688.58 1,822.18 2,104.80 222.37 8,932.76 1,991.52 2,190.66 284.20 9,186.20 1,991.52 2,190.66 284.20 10,836.11 2,217.77 2,190.66 284.20 13,176.26 2,662.14 2,190.66 284.20	
26 24 16 00-0169 Unassembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0172 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard 26 24 16 00-0173 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard 26 24 16 00-0174 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0175 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0176 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0177 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0178 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0179 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0180 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0181 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0182 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add	657.32 759.02 1,045.44 130.20 1,209.09 222.37 1,370.48 284.20 1,538.04 130.20 1,671.96 222.37 1,833.47 284.20 2,037.35 130.20 2,172.17 222.37 2,379.09 284.20	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0184 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard 26 24 16 00-0185 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard 26 24 16 00-0186 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0187 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add 26 24 16 00-0188 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard For Door-In-Door (Hinged) Trim Front, Add	981.26 1,116.31 1,797.71 130.20 2,001.47 222.37 2,195.26 284.20	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0189	EA		400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,738.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0190	EA		400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,978.13	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0191	EA		400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,191.91	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)					
26 24 16 00-0193	EA		100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,298.60	
26 24 16 00-0194	EA		100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,392.97	
26 24 16 00-0195	EA		225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,664.12	
26 24 16 00-0196	EA		225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,824.71	
26 24 16 00-0197	EA		225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,974.50	
26 24 16 00-0198	EA		400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,260.55	
26 24 16 00-0199	EA		400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,386.53	
26 24 16 00-0200	EA		400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,540.70	
26 24 16 00-0201	EA		600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,800.77	
26 24 16 00-0202	EA		600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,930.80	
26 24 16 00-0203	EA		600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,126.27	
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)					
26 24 16 00-0205	EA		100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,615.21	
26 24 16 00-0206	EA		100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,742.32	
26 24 16 00-0207	EA		225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,534.87	
26 24 16 00-0208	EA		225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,723.98	
26 24 16 00-0209	EA		225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,906.78	
26 24 16 00-0210	EA		400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,434.29	
26 24 16 00-0211	EA		400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,667.05	
26 24 16 00-0212	EA		400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,878.99	
26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0169)					
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers					
26 24 16 00-0214 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)					
26 24 16 00-0215	EA		100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	743.06	
26 24 16 00-0216	EA		100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	875.97	
26 24 16 00-0217	EA		100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	990.10	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0218	EA		225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,129.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0219	EA		225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,301.55	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0220	EA		225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,443.48	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0221	EA		400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,665.75	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0222	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,797.49	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0223	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,944.29	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0224	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,178.46	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0225	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,399.32	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0226	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,824.02	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0227 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase				
Unassembled Panelboards (26 24 16 00-0213)				
26 24 16 00-0228	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,148.28	
26 24 16 00-0229	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,296.64	
26 24 16 00-0230	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,505.74	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0231	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,211.92	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0232	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,397.79	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0233	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,577.87	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0234	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,542.35	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0235	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,767.94	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0236	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,954.05	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0237 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase				
Unassembled Panelboards (26 24 16 00-0213)				
26 24 16 00-0238	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,384.34	
26 24 16 00-0239	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,509.91	
26 24 16 00-0240	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,616.11	
26 24 16 00-0241	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,748.15	
26 24 16 00-0242	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,917.17	
26 24 16 00-0243	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,047.50	
26 24 16 00-0244	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,388.25	
26 24 16 00-0245	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,512.06	
26 24 16 00-0246	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,651.53	
26 24 16 00-0247	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,941.88	
26 24 16 00-0248	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,148.69	
26 24 16 00-0249	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,573.40	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3				
Phase Unassembled Panelboards (26 24 16 00-0213)				
26 24 16 00-0251	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,782.23	
26 24 16 00-0252	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,922.65	
26 24 16 00-0253	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,127.47	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0254	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,949.08	
26 24 16 00-0255	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,120.30	
26 24 16 00-0256	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,289.38	
26 24 16 00-0257	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,878.89	
26 24 16 00-0258	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,110.83	
26 24 16 00-0259	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,307.70	
26 24 16 00-0260		480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal.		
26 24 16 00-0261		Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0262	EA	125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,049.69	
26 24 16 00-0263	EA	125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,156.96	
26 24 16 00-0264	EA	250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,605.81	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0265	EA	250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,794.47	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0266	EA	250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,958.09	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0267	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,969.22	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0268	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,080.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0269	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,262.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0270	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,437.48	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0271	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,613.32	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0272	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,857.44	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0273		Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0274	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,124.29	
26 24 16 00-0275	EA	100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,191.11	
26 24 16 00-0276	EA	125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,380.67	
26 24 16 00-0277	EA	125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,514.13	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0278	EA	125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,790.81	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0279	EA	250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,624.19	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0280	EA	250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,791.20	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0281	EA	250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,008.99	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0282	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,163.63	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0283	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,402.59	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0284	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,615.97	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0285		Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0280)		
26 24 16 00-0286	EA	125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,668.98	
26 24 16 00-0287	EA	125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,776.25	
26 24 16 00-0288	EA	250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,210.44	
26 24 16 00-0289	EA	250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,505.37	
26 24 16 00-0290	EA	250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,656.77	
26 24 16 00-0291	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,667.90	
26 24 16 00-0292	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,760.63	
26 24 16 00-0293	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,916.99	
26 24 16 00-0294	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,152.65	
26 24 16 00-0295	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,313.59	
26 24 16 00-0296	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,525.76	
26 24 16 00-0297		Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0298	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,875.50	
26 24 16 00-0299	EA	100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,942.32	
26 24 16 00-0300	EA	125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,990.80	
26 24 16 00-0301	EA	125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,118.76	
26 24 16 00-0302	EA	125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,501.71	
26 24 16 00-0303	EA	250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,322.87	
26 24 16 00-0304	EA	250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,471.56	
26 24 16 00-0305	EA	250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,663.09	
26 24 16 00-0306	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,817.73	
26 24 16 00-0307	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,039.99	
26 24 16 00-0308	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,250.90	
26 24 16 00-0309		480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal.		
26 24 16 00-0310		Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0311	EA	125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,091.22	
26 24 16 00-0312	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,199.10	
26 24 16 00-0313	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,390.13	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0314	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,666.92	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0315	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,856.96	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	
26 24 16 00-0316	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,019.40	
		For Door-In-Door (Hinged) Trim Front, Add	284.20	
26 24 16 00-0317	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,049.90	
		For Door-In-Door (Hinged) Trim Front, Add	130.20	
26 24 16 00-0318	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,180.43	
		For Door-In-Door (Hinged) Trim Front, Add	222.37	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0319	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,361.62	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0320	EA	600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,536.35	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0321	EA	600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,713.24	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0322	EA	600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,958.38	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)				
26 24 16 00-0324	EA	100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,338.05	
26 24 16 00-0325	EA	100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,405.48	
26 24 16 00-0326	EA	100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,608.56	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0327	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,674.52	
26 24 16 00-0328	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,808.46	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0329	EA	125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,084.50	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0330	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,968.78	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0331	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,137.79	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0332	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,353.29	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0333	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,576.53	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	130.20	
26 24 16 00-0334	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,817.68	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	222.37	
26 24 16 00-0335	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,031.03	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	284.20	
26 24 16 00-0336 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)				
26 24 16 00-0337	EA	125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,710.51	
26 24 16 00-0338	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,818.39	
26 24 16 00-0339	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,000.26	
26 24 16 00-0340	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,271.55	
26 24 16 00-0341	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,567.86	
26 24 16 00-0342	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,718.09	
26 24 16 00-0343	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,750.42	
26 24 16 00-0344	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,860.79	
26 24 16 00-0345	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,015.72	
26 24 16 00-0346	EA	600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,251.53	
26 24 16 00-0347	EA	600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,413.14	
26 24 16 00-0348	EA	600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,625.31	
26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)				
26 24 16 00-0350	EA	100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	2,942.68	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0351	EA	100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,010.11	
26 24 16 00-0352	EA	100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,319.46	
26 24 16 00-0353	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,284.65	
26 24 16 00-0354	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,413.09	
26 24 16 00-0355	EA	125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,795.40	
26 24 16 00-0356	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,667.46	
26 24 16 00-0357	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,818.15	
26 24 16 00-0358	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,007.39	
26 24 16 00-0359	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,230.63	
26 24 16 00-0360	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,454.68	
26 24 16 00-0361	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,664.98	
26 24 16 00-0362		600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0169)		
		Note: Square D I-Line or equal.		
26 24 16 00-0363		Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0362)		
26 24 16 00-0364	EA	400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,948.38	402.97
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.79	
26 24 16 00-0365	EA	400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,254.48	402.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.72	
26 24 16 00-0366	EA	400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,485.01	402.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.72	
26 24 16 00-0367	EA	600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,914.04	661.58
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	396.96	
26 24 16 00-0368	EA	600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,092.46	661.58
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	396.96	
26 24 16 00-0369	EA	600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,288.26	661.58
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	396.96	
26 24 16 00-0370	EA	800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,617.35	879.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	527.66	
26 24 16 00-0371	EA	800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,790.10	882.08
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	529.27	
26 24 16 00-0372	EA	800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,858.93	879.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	527.66	
26 24 16 00-0373	EA	800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,425.01	879.48
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	527.66	
26 24 16 00-0374	EA	1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,836.75	1,323.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	793.91	
26 24 16 00-0375	EA	1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,222.02	1,323.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	793.91	
26 24 16 00-0376	EA	1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,537.03	1,323.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	793.91	
26 24 16 00-0377	EA	1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,921.52	1,323.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	793.91	
26 24 16 00-0378		Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0362)		
26 24 16 00-0379	EA	225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,620.97	411.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	246.89	
26 24 16 00-0380	EA	400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,724.70	466.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.05	
26 24 16 00-0381	EA	400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,947.34	466.73
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.05	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,602.62	466.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.05	
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,368.62	765.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	459.08	
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,737.44	767.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	460.30	
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,039.70	765.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	459.08	
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,338.39	1,022.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	613.73	
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,772.51	1,019.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	611.57	
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,206.73	1,019.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	611.57	
26 24 16 00-0389 Residential Lighting And Power Panelboards (26 24 16 00-0001)		
See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center (26 24 16 00-0389)		
Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	174.10	67.74
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	599.30	270.95
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	897.79	386.79
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	1,914.18	813.00
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,090.40	880.60
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390)		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	235.50	74.51
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	403.22	81.29
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof (26 24 16 00-0390)		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	239.04	74.51
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	265.97	81.29
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	968.57	386.79
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	2,198.10	880.60
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390)		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	289.35	74.51
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	2,111.28	813.00
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,249.60	813.00
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,441.21	880.60
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	7,963.42	1,354.78
26 24 16 00-0412 Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390)		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	3,143.25	813.00
26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	3,426.40	880.60



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0415	EA	300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	8,715.35	1,354.78
26 24 16 00-0416		Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof (26 24 16 00-0390)		
26 24 16 00-0417	EA	125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,349.61	813.00
26 24 16 00-0418	EA	150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,612.00	880.60
26 24 16 00-0419		Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0420	EA	125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	3,309.11	813.00
26 24 16 00-0421	EA	155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	3,444.40	880.60
26 24 16 00-0422		Residential Type Assembled Load Center (26 24 16 00-0389)		
26 24 16 00-0423		Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0424	EA	100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	898.25	386.79
26 24 16 00-0425	EA	100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,086.77	451.82
26 24 16 00-0426	EA	100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	915.18	386.79
26 24 16 00-0427	EA	100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,091.38	451.82
26 24 16 00-0428	EA	200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,564.50	602.20
26 24 16 00-0429	EA	200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,850.22	722.77
26 24 16 00-0430	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,118.45	833.86
26 24 16 00-0431	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,328.55	902.69
26 24 16 00-0432	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,486.58	1,354.78
26 24 16 00-0433	EA	200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,624.51	602.20
26 24 16 00-0434	EA	200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,907.15	722.77
26 24 16 00-0435	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,175.38	833.86
26 24 16 00-0436	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,382.40	902.69
26 24 16 00-0437	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,663.52	1,354.78
26 24 16 00-0438	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,233.83	1,505.30
26 24 16 00-0439	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,418.47	1,505.30
26 24 16 00-0440		Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441	EA	125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,172.93	451.82
26 24 16 00-0442	EA	125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,750.21	677.39
26 24 16 00-0443	EA	125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,223.71	451.82
26 24 16 00-0444	EA	125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,796.37	677.39
26 24 16 00-0445	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,206.16	833.86
26 24 16 00-0446	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,406.44	903.23
26 24 16 00-0447	EA	200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,937.65	1,084.23
26 24 16 00-0448	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,548.12	1,354.78
26 24 16 00-0449	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,260.01	833.86
26 24 16 00-0450	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,467.03	902.69
26 24 16 00-0451	EA	200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,143.99	1,083.41
26 24 16 00-0452	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,755.84	1,354.78

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0453	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,279.99	1,505.30
26 24 16 00-0454	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,464.63	1,505.30
26 24 16 00-0455		Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456	EA	125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,166.78	451.82
26 24 16 00-0457	EA	125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,728.67	677.39
26 24 16 00-0458	EA	200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,976.39	722.77
26 24 16 00-0459	EA	200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,268.52	834.27
26 24 16 00-0460	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,491.07	903.23
26 24 16 00-0461	EA	200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,301.33	1,204.39
26 24 16 00-0462	EA	200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,991.78	722.77
26 24 16 00-0463	EA	200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,298.47	833.86
26 24 16 00-0464	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,497.80	902.69
26 24 16 00-0465	EA	200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,216.71	1,204.39
26 24 16 00-0466	EA	400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,818.64	1,505.30
26 24 16 00-0467	EA	400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,126.37	1,505.30
26 24 16 00-0468		Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,921.89	903.23
26 24 16 00-0470	EA	200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,040.49	1,354.78
26 24 16 00-0471	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,013.25	902.69
26 24 16 00-0472	EA	200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,132.81	1,354.78
26 24 16 00-0473		Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
26 24 16 00-0474		Midget Finger-Safe Fuse Holders (26 24 16 00-0473) Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475	EA	1 Pole Midget Finger-Safe Fuse Holder	85.24	24.38
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 24 16 00-0476	EA	1 Pole With Indicator Midget Finger-Safe Fuse Holder	99.94	24.38
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 24 16 00-0477	EA	2 Pole Midget Finger-Safe Fuse Holder	137.21	36.58
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 24 16 00-0478	EA	2 Pole With Indicators Midget Finger-Safe Fuse Holder	175.60	36.58
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 24 16 00-0479	EA	3 Pole Midget Finger-Safe Fuse Holder	201.08	48.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 24 16 00-0480	EA	3 Pole With Indicators Midget Finger-Safe Fuse Holder	252.07	48.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 24 16 00-0481	EA	3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	294.72	48.77
		Note: With indicators.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 24 16 00-0482	EA	3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	238.18	48.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 24 16 00-0483	EA	4 Pole Midget Finger-Safe Fuse Holder	253.20	60.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 24 16 00-0484	EA	4 Pole With Indicator Midget Finger-Safe Fuse Holder	309.20	60.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 24 16 00-0485	EA	12 To 24 Volt DC Midget Finger-Safe Fuse Holder	99.99	24.38
		Note: With indicator.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 24 16 00-0486	EA	20 To 24 Volt DC Midget Finger-Safe Fuse Holder	107.81	24.38
		Note: With indicator.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 24 16 00-0487	EA	35 To 48 Volt DC Midget Finger-Safe Fuse Holder	101.43	24.38
		Note: With indicator.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 24 16 00-0488		Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0489	EA	Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers..... Note: Includes removal and reinstallation of main wiring to panelboard. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,699.67 508.04	
26 24 16 00-0490	EA	Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.85 26.42	
26 24 16 00-0491	EA	Panelboard Filler Plate, Fits 1" Opening..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.02 1.27	
26 24 19 Motor-Control Centers (26 24)				
26 24 19 00-0001		Combination Starters With Molded Case Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
26 24 19 00-0002		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0003	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,596.84 74.28	123.80
26 24 19 00-0004	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,073.67 78.00	129.99
26 24 19 00-0005	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,567.84 81.71	136.18
26 24 19 00-0006	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,271.46 96.56	160.94
26 24 19 00-0007	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,644.09 111.42	185.70
26 24 19 00-0008	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,995.59 148.56	247.60
26 24 19 00-0009		480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0010	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,596.84 74.28	123.80
26 24 19 00-0011	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,073.67 78.00	129.99
26 24 19 00-0012	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,567.84 81.71	136.18
26 24 19 00-0013	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,271.46 96.56	160.94
26 24 19 00-0014	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,644.09 111.42	185.70
26 24 19 00-0015	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,995.59 148.56	247.60
26 24 19 00-0016		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed reversing.		
26 24 19 00-0017	EA	230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,756.72 74.28	123.80
26 24 19 00-0018	EA	230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,002.71 78.00	129.99
26 24 19 00-0019	EA	230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,165.27 81.71	136.18
26 24 19 00-0020	EA	230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,527.62 96.56	160.94
26 24 19 00-0021	EA	230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,642.82 111.42	185.70
26 24 19 00-0022	EA	230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,459.65 148.56	247.60
26 24 19 00-0023		480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed reversing.		
26 24 19 00-0024	EA	480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,756.72 74.28	123.80
26 24 19 00-0025	EA	480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,002.71 78.00	129.99
26 24 19 00-0026	EA	480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,165.27 81.71	136.18
26 24 19 00-0027	EA	480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,527.62 96.56	160.94
26 24 19 00-0028	EA	480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,642.82 111.42	185.70
26 24 19 00-0029	EA	480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,459.65 148.56	247.60
26 24 19 00-0030		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,576.13 118.85	198.09

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit 6,286.64 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 126.27		210.46
26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit 9,245.49 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 133.70		222.84
26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 16,505.03 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 152.27		253.79
26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 27,327.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 178.28		297.12
26 24 19 00-0036 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit 4,576.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 118.85		198.09
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit 6,286.64 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 126.27		210.46
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 9,245.49 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 133.70		222.84
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 16,505.03 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 152.27		253.79
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit 27,327.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 178.28		297.12
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit 5,272.92 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 74.28		123.80
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit 7,840.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 78.00		129.99
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit 10,728.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 81.71		136.18
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 20,143.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 96.56		160.94
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 34,887.58 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 111.42		185.70
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit 5,272.92 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 74.28		123.80
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit 7,840.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 78.00		129.99
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 10,728.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 81.71		136.18
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 20,143.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 96.56		160.94
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit 34,887.58 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 111.42		185.70
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit 7,791.82		129.99
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit 11,922.83		142.37
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit 20,086.48		160.94
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit 31,063.92		185.70
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit 53,134.45		247.60
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit 7,791.82		129.99
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit 11,922.83		142.37
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit 20,086.48		160.94
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit 31,063.92		185.70
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit 53,134.45		247.60
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit 5,335.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 118.85		198.09
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit 6,888.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 137.41		229.03
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit 12,094.05 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 152.27		253.79
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit 20,597.39 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 185.70		309.50
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit 28,292.74 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 237.71		396.16



Electrical		26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit ^(26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit.....	5,335.46	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit.....	6,888.97	229.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.41	
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	12,094.05	253.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	20,597.39	309.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.70	
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit.....	28,292.74	396.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	237.71	
26 24 19 00-0078 230 Volt Combination With Molded Case Circuit ^(26 24 19 00-0001) Note: Reducing volt, energy saver.		
26 24 19 00-0079 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit	21,961.45	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0080 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit	23,301.27	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	
26 24 19 00-0081 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit	25,732.06	229.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.41	
26 24 19 00-0082 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit	38,948.16	253.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 24 19 00-0083 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit	53,113.27	309.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.70	
26 24 19 00-0084 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit	72,075.65	396.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	237.71	
26 24 19 00-0085 480 Volt Combination With Molded Case Circuit ^(26 24 19 00-0001) Note: Reducing volt, energy saver.		
26 24 19 00-0086 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit	21,961.45	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0087 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit	23,301.27	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	
26 24 19 00-0088 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit	25,732.06	229.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.41	
26 24 19 00-0089 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit	38,948.16	253.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 24 19 00-0090 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit	53,113.27	309.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.70	
26 24 19 00-0091 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit	72,075.65	396.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	237.71	
26 24 19 00-0092 Combination Starters With Current Limiting Circuit Breakers ^(26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093 230 Volt Combination Starters With Current Limiting Circuit ^(26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit	3,469.21	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0095 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,946.04	129.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.00	
26 24 19 00-0096 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	6,093.86	136.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.71	
26 24 19 00-0097 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	11,217.84	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0098 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	20,069.66	185.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.42	
26 24 19 00-0099 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	32,706.36	247.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.56	
26 24 19 00-0100 480 Volt Combination Starters With Current Limiting Circuit ^(26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,469.21	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0102 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,946.04	129.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.00	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0103 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	6,093.86	136.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.71	
26 24 19 00-0104 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	11,217.84	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0105 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	20,069.66	185.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.42	
26 24 19 00-0106 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	32,706.36	247.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.56	
26 24 19 00-0107 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 1-speed reversing.		
26 24 19 00-0108 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit	4,621.71	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit	5,857.87	129.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.00	
26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit	8,656.90	136.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.71	
26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	15,434.69	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	27,999.58	185.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.42	
26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 1-speed reversing.		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit	4,621.71	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit	5,857.87	129.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.00	
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	8,656.90	136.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.71	
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	15,434.69	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit	27,999.58	185.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.42	
26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	5,426.38	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	7,124.61	210.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.27	
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	10,712.54	222.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.70	
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	19,377.69	253.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	30,657.69	297.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	178.28	
26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	5,426.38	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	7,124.61	210.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.27	
26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	10,712.54	222.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.70	
26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	19,377.69	253.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	30,657.69	297.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	178.28	
26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	6,246.97	185.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.42	
26 24 19 00-0133 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	8,800.34	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0134	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,336.68 126.27	210.46
26 24 19 00-0135	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,142.19 144.84	241.41
26 24 19 00-0136	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,349.06 170.85	284.74
26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 2-speed non-reversing, 1 wind.				
26 24 19 00-0138	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,246.97 111.42	185.70
26 24 19 00-0139	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,800.34 118.85	198.09
26 24 19 00-0140	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,336.68 126.27	210.46
26 24 19 00-0141	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,142.19 144.84	241.41
26 24 19 00-0142	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,349.06 170.85	284.74
26 24 19 00-0143 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Reduced volt, auto-transformer.				
26 24 19 00-0144	EA	230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,617.49 78.00	129.99
26 24 19 00-0145	EA	230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,869.06 85.42	142.37
26 24 19 00-0146	EA	230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,430.96 96.56	160.94
26 24 19 00-0147	EA	230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,489.64 111.42	185.70
26 24 19 00-0148	EA	230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58,385.85 148.56	247.60
26 24 19 00-0149 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Reduced volt, auto-transformer.				
26 24 19 00-0150	EA	480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,617.49 78.00	129.99
26 24 19 00-0151	EA	480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,869.06 85.42	142.37
26 24 19 00-0152	EA	480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,430.96 96.56	160.94
26 24 19 00-0153	EA	480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,489.64 111.42	185.70
26 24 19 00-0154	EA	480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58,385.85 148.56	247.60
26 24 19 00-0155 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Reduced volt, part winding.				
26 24 19 00-0156	EA	230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,185.71 118.85	198.09
26 24 19 00-0157	EA	230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,722.02 137.41	229.03
26 24 19 00-0158	EA	230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,551.27 152.27	253.79
26 24 19 00-0159	EA	230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,983.64 185.70	309.50
26 24 19 00-0160	EA	230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,374.87 237.71	396.16
26 24 19 00-0161 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Reduced volt, part winding.				
26 24 19 00-0162	EA	480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,185.71 118.85	198.09
26 24 19 00-0163	EA	480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,722.02 137.41	229.03
26 24 19 00-0164	EA	480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,551.27 152.27	253.79
26 24 19 00-0165	EA	480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,983.64 185.70	309.50
26 24 19 00-0166	EA	480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,374.87 237.71	396.16

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0167		230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, energy saving		
26 24 19 00-0168	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit.....	22,666.72	160.94
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	96.56	
26 24 19 00-0169	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit.....	23,999.16	198.09
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	118.85	
26 24 19 00-0170	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit.....	26,405.38	229.03
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	137.41	
26 24 19 00-0171	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	39,505.98	253.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	152.27	
26 24 19 00-0172	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	53,545.77	309.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	185.70	
26 24 19 00-0173	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	75,041.69	396.16
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	237.71	
26 24 19 00-0174		480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, energy saving		
26 24 19 00-0175	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit.....	22,666.78	160.94
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	96.58	
26 24 19 00-0176	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit.....	23,999.16	198.09
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	118.85	
26 24 19 00-0177	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	26,405.38	229.03
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	137.41	
26 24 19 00-0178	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	39,505.98	253.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	152.27	
26 24 19 00-0179	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	53,545.77	309.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	185.70	
26 24 19 00-0180	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit.....	75,041.69	396.16
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	237.71	
26 24 19 00-0181		Combination Starters With Fusible Switch (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182		230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed non-reversing.		
26 24 19 00-0183	EA	7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,311.79	123.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	74.28	
26 24 19 00-0184	EA	15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	3,184.26	129.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	78.00	
26 24 19 00-0185	EA	30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	5,359.11	136.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	81.71	
26 24 19 00-0186	EA	50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	9,443.63	160.94
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	96.56	
26 24 19 00-0187	EA	100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	15,322.03	185.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	111.42	
26 24 19 00-0188	EA	200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	27,319.82	247.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	148.56	
26 24 19 00-0189		480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed non-reversing.		
26 24 19 00-0190	EA	10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,311.79	123.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	74.28	
26 24 19 00-0191	EA	25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	3,184.26	129.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	78.00	
26 24 19 00-0192	EA	50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	5,359.11	136.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	81.71	
26 24 19 00-0193	EA	100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	9,443.63	160.94
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	96.56	
26 24 19 00-0194	EA	200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	15,322.03	185.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	111.42	
26 24 19 00-0195	EA	400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	27,319.82	247.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add.....	148.56	
26 24 19 00-0196		230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed reversing.		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing 3,724.77 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 74.28		123.80
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....5,543.33 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 78.00		129.99
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....8,860.86 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 81.71		136.18
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....14,434.54 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 96.56		160.94
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....22,200.20 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 111.42		185.70
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....37,729.22 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 148.56		247.60
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....3,724.77 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 74.28		123.80
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....5,543.33 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 78.00		129.99
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....8,860.86 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 81.71		136.18
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....14,434.54 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 96.56		160.94
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....22,200.20 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 111.42		185.70
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....37,729.22 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 148.56		247.60
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 4,369.71 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 118.85		198.09
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 6,001.59 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 126.27		210.46
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 9,429.79 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 133.70		222.84
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 16,824.49 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 152.27		253.79
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 26,789.79 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 178.28		297.12
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 4,369.71 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 118.85		198.09
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 6,001.59 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 126.27		210.46
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 9,429.79 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 133.70		222.84
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 16,824.49 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 152.27		253.79
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter 26,789.79 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 178.28		297.12
26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 4,973.12 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 74.28		123.80
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 7,575.57 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 78.00		129.99
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 10,900.47 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 81.71		136.18
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 21,956.54 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 96.56		160.94
26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 4,973.12 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 74.28		123.80
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 7,575.57 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 78.00		129.99
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 10,900.47 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 81.71		136.18
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 21,956.54 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 96.56		160.94
26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Auto-transformer.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0233 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	7,523.97	129.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.00	
26 24 19 00-0234 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	13,271.92	142.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.42	
26 24 19 00-0235 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	22,101.52	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0236 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	29,505.95	185.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.42	
26 24 19 00-0237 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	49,561.44	247.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.56	
26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	7,523.97	129.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.00	
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	13,271.92	142.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.42	
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	22,101.52	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	29,505.95	185.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.42	
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	49,561.44	247.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.56	
26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	5,367.40	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	7,100.30	229.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.41	
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	11,288.04	253.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	22,472.36	309.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.70	
26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	5,367.40	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	7,100.30	229.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.41	
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	11,288.04	253.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	22,472.36	309.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.70	
26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	21,958.99	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	23,301.27	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	25,732.06	229.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.41	
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	38,948.16	253.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.27	
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	53,113.27	309.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.70	
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	72,075.65	396.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	237.71	
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)		
Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	21,958.99	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.56	
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	23,301.27	198.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.85	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	25,732.06	229.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.41	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0265	EA	100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP		38,948.16	253.79
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		152.27	
26 24 19 00-0266	EA	200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP		53,113.27	309.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		185.70	
26 24 19 00-0267	EA	400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP		72,075.65	396.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		237.71	
26 24 19 00-0268 Starter Accessories (26 24 19)					
Note: Additional options or accessories for the Combination Starters					
26 24 19 00-0269 Starter Modifications (26 24 19 00-0268)					
26 24 19 00-0270	EA	Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer		199.15	
26 24 19 00-0271	EA	Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer		383.35	
26 24 19 00-0272	EA	Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer		547.99	
26 24 19 00-0273	EA	Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes		137.61	
26 24 19 00-0274	EA	Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes		194.13	
26 24 19 00-0275	EA	Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes		326.83	
26 24 19 00-0276	EA	Overload Relay Heater Elements, 3 Per Starter		81.09	
26 24 19 00-0277	EA	N.O. Overload Relay Alarm		68.81	
26 24 19 00-0278	EA	Control Circuit Fuses, Primary/Secondary		147.29	
26 24 19 00-0279	EA	Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton		182.10	
26 24 19 00-0280	EA	Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton		356.18	
26 24 19 00-0281	EA	Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select		182.10	
26 24 19 00-0282	EA	Control Devices Type PB2 Mount On Device, Individual Light Full V		208.88	
26 24 19 00-0283	EA	Control Devices Type PB2 Mount On Device, Individual Light Transformer		251.73	
26 24 19 00-0284	EA	Control Devices Type PB2 Mount On Device, Individual Light Push To		297.26	
26 24 19 00-0285	EA	Blank Devices Panel		56.24	
26 24 19 00-0286	EA	Oversize Or Special Color Starter		88.37	
26 24 19 00-0287	EA	Mini Voltmeter/Ammeter With Current Transformer		773.59	
26 24 19 00-0288	EA	Mini Elapsed Time Meters, Non-Resettable		701.29	
26 24 19 00-0289	EA	Panel Elapsed Time Meter, Resettable		1,044.42	
26 24 19 00-0290	EA	Terminal Blocks, Side Mounted, Press Connection, Plug-In Press		88.37	
26 24 19 00-0291	EA	Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw		125.87	
26 24 19 00-0292	EA	Terminal Blocks, Front Mounted, Press Connection, Standard		88.37	
26 24 19 00-0293	EA	Terminal Blocks, Front Mounted, Press Connection, Plug-In		125.87	
26 24 19 00-0294	EA	Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility		125.87	
26 24 19 00-0295	EA	Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type		182.10	
26 24 19 00-0296	EA	MOR - A Solid State Modular Overload Relay		452.58	
26 24 19 00-0297	EA	Heater Module		84.26	
26 24 19 00-0298	EA	LAM - Long Acceleration Module		523.41	
26 24 19 00-0299	EA	JAM - Jam Protection Module		600.00	
26 24 19 00-0300	EA	PUM - Phase Unbalance Module		1,138.73	
26 24 19 00-0301	EA	ULM - Underload Module		546.38	
26 24 19 00-0302	EA	Wiring To Common Control Circuit Transformer		120.00	
26 24 19 00-0303	EA	Handle Operator Separable Source Control Circuit		224.68	
26 24 19 00-0304	EA	Type SIS Control Wire		94.47	
26 24 19 00-0305	EA	Ring Or Spade Terminals Control		120.00	
26 24 19 00-0306	EA	Ring Terminals Power		120.00	
26 24 19 00-0307	EA	14 Gauge Control Wire		94.47	
26 24 19 00-0308	EA	Wiring Diagram On Door		71.49	
26 24 19 00-0309	EA	Special Color Or Type Control Wire		86.81	
26 24 19 00-0310	EA	Current Transformer 12.5 VA		681.70	
26 24 19 00-0311	EA	Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4		2,177.88	
26 24 19 00-0312	EA	Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6		2,451.07	
26 24 19 00-0313 Control Relays And Special Components (26 24 19 00-0268)					
26 24 19 00-0314	EA	600 Volt, 2 Pole, Control Relays		700.96	
26 24 19 00-0315	EA	600 Volt, 4 Pole, Control Relays		826.09	
26 24 19 00-0316	EA	600 Volt, 6 Pole, Control Relays		963.60	
26 24 19 00-0317	EA	600 Volt, 8 Pole, Control Relays		1,070.48	
26 24 19 00-0318	EA	Pneumatic Timer, Control Relays		937.55	
26 24 19 00-0319	EA	Motor Driven Timer, Control Relays		2,443.11	
26 24 19 00-0320	EA	7 Days Time Switch, Control Relays		3,074.99	
26 24 19 00-0321	EA	24 Hour Time Switch, Control Relays		862.28	
26 24 19 00-0322	EA	Phase Voltage, Control Relays		1,466.78	
26 24 19 00-0323	EA	Two Circuit Alternator, Control Relays		2,053.04	
26 24 19 00-0324	EA	Manual 120 Volt, Control Relays		200.74	
26 24 19 00-0325	EA	Over-Current Relay, Control Relays		4,871.50	
26 24 19 00-0326	EA	UV-Relay, Control Relays		4,125.97	
26 24 19 00-0327	EA	Over-Current Relay, Control Relays		4,125.97	
26 24 19 00-0328	EA	Teleductor, Control Relays		1,512.40	
26 24 19 00-0329	EA	Current Transducer, Control Relays		4,067.30	
26 24 19 00-0330	EA	Watt Transducer, Control Relays		8,134.59	
26 24 19 00-0331	EA	Control Relays, Blank, Add For Each 1x		276.02	
26 24 19 00-0332	EA	Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway		412.89	
26 24 19 00-0333	EA	Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway		465.36	
26 24 19 00-0334	EA	Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway		517.82	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway	465.36	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway	517.82	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway	545.20	
26 24 19 00-0338 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)		
26 24 19 00-0339 EA Shunt Trip, Circuit Breaker	778.12	
26 24 19 00-0340 EA Auxiliary Switch, Circuit Breaker	268.77	
26 24 19 00-0341 EA Key Interlock, Circuit Breaker	966.69	
26 24 19 00-0342 EA GFR Ground Fault, Circuit Breaker	4,456.32	
26 24 19 00-0343 EA Seltronic Breaker, Circuit Breaker	2,581.46	
26 24 19 00-0344 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)		
26 24 19 00-0345 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100	1,880.20	80.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.28	
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150	3,260.36	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100	3,152.25	80.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.28	
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150	4,529.74	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150	5,825.89	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250	3,581.08	160.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.58	
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400	5,828.58	173.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.01	
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600	7,689.50	222.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.65	
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800	9,028.47	340.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	204.34	
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200	12,779.45	513.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	308.51	
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000	28,111.27	680.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	408.19	
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500	42,040.31	854.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	512.05	
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000	70,231.55	990.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	594.75	
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	2,263.16	80.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.28	
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150	3,632.60	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	2,263.16	80.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.28	
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50	3,632.60	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150	3,861.93	80.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.28	
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150	5,284.93	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	6,565.02	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100	3,447.82	123.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.28	
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400	8,728.54	340.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	204.34	
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225	8,728.54	340.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	204.34	
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400	11,775.87	371.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	222.74	
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600	14,711.53	433.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	259.87	
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800	16,925.01	513.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	308.51	
26 24 19 00-0371 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)		
26 24 19 00-0372 EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches	2,050.16	123.80
26 24 19 00-0373 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	3,171.01	123.80
26 24 19 00-0374 EA 100 Amperes, Incoming Line And Feeder Fusible Switches	3,249.95	154.75
26 24 19 00-0375 EA 200 Amperes, Incoming Line And Feeder Fusible Switches	5,296.34	185.70
26 24 19 00-0376 EA 400 Amperes, Incoming Line And Feeder Fusible Switches	10,462.21	235.22
26 24 19 00-0377 EA 600 Amperes, Incoming Line And Feeder Fusible Switches	14,678.54	309.50
26 24 19 00-0378 EA 800 Amperes, Incoming Line And Feeder Fusible Switches	35,758.15	414.73
26 24 19 00-0379 EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches	40,325.42	575.67
26 24 19 00-0380 Dry Type Distribution Transformers (26 24 19 00-0268)		
26 24 19 00-0381 EA 500 VA, Phase 1, Dry Type Distribution Transformers	1,826.40	
26 24 19 00-0382 EA 750 VA, Phase 1, Dry Type Distribution Transformers	1,885.32	



Electrical		26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0383 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	1,946.91	
26 24 19 00-0384 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	2,233.46	
26 24 19 00-0385 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	2,420.92	
26 24 19 00-0386 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	2,739.58	
26 24 19 00-0387 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	3,293.95	
26 24 19 00-0388 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	3,711.72	
26 24 19 00-0389 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	8,628.54	
26 24 19 00-0390 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	4,579.39	
26 24 19 00-0391 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	6,344.20	
26 24 19 00-0392 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	9,887.21	
26 24 19 00-0393 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	9,156.11	
26 24 19 00-0394 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	12,688.40	
26 24 19 00-0395 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	13,097.90	
26 24 19 00-0396 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	18,143.02	
26 24 19 00-0397 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0398 EA Metering Equipment, Voltmeter, Panel Type	862.32	
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Switchboard Type	1,885.32	
26 24 19 00-0400 EA Metering Equipment, Ammeter, Panel	776.62	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Switchboard Type	1,885.32	
26 24 19 00-0402 EA Metering Equipment, Voltmeter/Ammeter, Switch	1,047.10	
26 24 19 00-0403 EA Metering Equipment, Control Switch, 4 Circuits	1,111.37	
26 24 19 00-0404 EA Add For Additional Circuits	140.43	
26 24 19 00-0405 EA Metering Equipment, Indicating Wattmeter	3,888.47	
26 24 19 00-0406 EA Metering Equipment, Indicating Power Factor	4,073.25	
26 24 19 00-0407 EA Metering Equipment, Integrating Watt-hour	3,591.21	
26 24 19 00-0408 EA Add For Demand Attachment	919.15	
26 24 19 00-0409 EA 800 Amperes, Metering Equipment, Current Transformer	1,073.88	
26 24 19 00-0410 EA 1,000 Amperes, Metering Equipment, Current Transformer	1,853.18	
26 24 19 00-0411 EA 2,000 Amperes, Metering Equipment, Current Transformer	2,158.47	
26 24 19 00-0412 EA Metering Equipment, Potential Transformer	1,799.62	
26 24 19 00-0413 EA Metering Equipment, Surge Arrester	1,936.20	
26 24 19 00-0414 EA Metering Equipment, Ground Detector System	1,480.94	
26 24 19 00-0415 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0416 EA 600 Amperes, Current Limiting Reactors	33,054.66	
26 24 19 00-0417 EA 800 Amperes, Current Limiting Reactors	48,137.20	
26 24 19 00-0418 EA 1,000 Amperes, Current Limiting Reactors	63,254.56	
26 24 19 00-0419 EA 1,200 Amperes, Current Limiting Reactors	96,285.11	
26 24 19 00-0420 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0421 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	533.25	
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	533.25	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	737.21	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	1,349.10	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	737.21	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	941.17	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	941.17	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	1,346.64	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	941.17	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	1,346.64	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	1,145.13	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	3,713.08	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	1,145.13	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	1,346.64	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	3,713.08	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	3,713.08	
26 24 19 00-0437 EA Bus Duct Transition Pull Box	1,221.31	
26 24 19 00-0438 EA Throat And Transition To Substation	2,357.73	
26 24 19 00-0439 EA Service Entrance Label Signage	510.60	
26 24 19 00-0440 EA Type W To 5 Star - 10" Transition	1,067.28	
26 24 19 00-0441 EA 600 Amperes, Sub Feed Lugs On Main Bus	610.21	
26 24 19 00-0442 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0443 EA Standard Structure Add For Each Additional 4" Of Structure Width	337.16	
26 24 19 00-0444 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	337.16	
26 24 19 00-0445 EA Standard Structure Single Corner Section "L", 16" Depth	1,043.03	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 21" Depth	1,176.44	
26 24 19 00-0447 EA Standard Structure Unused Space/Future Space	100.66	
26 24 19 00-0448 EA Standard Structure NEMA 12 Dustproof	271.67	
26 24 19 00-0449 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	57.00	
26 24 19 00-0450 EA Standard Structure 150 Watt Space	244.99	
26 24 19 00-0451 EA Standard Structure Thermostat For Space Heater Control	742.98	
26 24 19 00-0452 EA Standard Structure Rear Hinged Structure Door, 72" High	244.99	
26 24 19 00-0453 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC	480.00	
26 24 19 00-0454 EA Standard Structure NEMA 3R N-Walk In Front Mounted	6,847.67	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0455	EA	Standard Structure NEMA 3R N-Walk In Back-to-back	7,914.91	
26 24 19 00-0456	EA	Standard Structure NEMA 3R Walk-In Aisle Front Mounted	7,922.57	
26 24 19 00-0457 Installation Hours For Vertical Sections (26 24 19 00-0268)				
26 24 19 00-0458	EA	Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes	742.77	371.40
26 24 19 00-0459	EA	Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes	1,114.16	557.10
26 24 19 00-0460	EA	Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes	1,238.00	619.00
26 24 19 00-0461	EA	Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes	1,485.73	742.80
26 24 19 00-0462	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes	123.80	61.90
26 24 19 00-0463	EA	Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes	742.77	371.40
26 24 19 00-0464	EA	Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes	1,114.16	557.10
26 24 19 00-0465	EA	Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes	1,238.00	619.00
26 24 19 00-0466	EA	Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes	1,485.73	742.80
26 24 19 00-0467	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes	123.80	61.90
26 24 19 00-0468	EA	Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes	866.62	433.30
26 24 19 00-0469	EA	Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes	1,114.16	557.10
26 24 19 00-0470	EA	Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes	1,485.73	742.80
26 24 19 00-0471	EA	Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes	1,732.98	866.47
26 24 19 00-0472	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes	185.70	92.85
26 24 19 00-0473	EA	Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes	990.40	495.20
26 24 19 00-0474	EA	Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes	1,361.92	680.90
26 24 19 00-0475	EA	Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes	1,732.98	866.47
26 24 19 00-0476	EA	Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes	1,980.46	990.27
26 24 19 00-0477	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes	247.60	123.80
26 24 19 00-0478	EA	Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes	990.40	495.20
26 24 19 00-0479	EA	Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes	1,485.73	742.80
26 24 19 00-0480	EA	Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes	1,856.81	928.37
26 24 19 00-0481	EA	Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes	2,104.74	1,052.43
26 24 19 00-0482	EA	Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes	247.60	123.80
26 24 19 00-0483 Motor Control Centers (26 24 19)				
26 24 19 00-0484 2.4 KV Motor Control Centers (26 24 19 00-0483)				
26 24 19 00-0485	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	17,060.86	247.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.56	
26 24 19 00-0486	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	17,060.86	247.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.56	
26 24 19 00-0487	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	17,060.86	247.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.56	
26 24 19 00-0488	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	17,122.79	278.55
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	167.14	
26 24 19 00-0489	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	18,187.72	309.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.70	
26 24 19 00-0490	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	18,249.60	340.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	204.26	
26 24 19 00-0491	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	18,311.49	371.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	222.83	
26 24 19 00-0492	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	18,435.34	433.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	259.99	
26 24 19 00-0493	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	18,559.12	495.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	297.12	
26 24 19 00-0494	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	31,185.65	557.10
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	334.25	
26 24 19 00-0495	EA	2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp	33,477.72	619.00
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	371.40	
26 24 19 00-0496	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp	25,283.92	247.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.56	
26 24 19 00-0497	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp	26,342.36	266.17
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	159.71	
26 24 19 00-0498	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp	29,923.85	290.93
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.56	
26 24 19 00-0499	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp	33,304.52	309.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.70	
26 24 19 00-0500	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp	36,240.55	359.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	215.43	
26 24 19 00-0501	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp	39,704.49	383.78
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	230.27	
26 24 19 00-0502	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp	43,166.37	408.54
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.11	
26 24 19 00-0503	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp	47,275.25	445.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	267.42	
26 24 19 00-0504	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp	55,007.64	495.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	297.12	
26 24 19 00-0505	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp	59,594.52	526.15
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	315.71	
26 24 19 00-0506	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp	90,966.15	619.00
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	371.40	
26 24 19 00-0507	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp	96,926.05	680.90
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	408.58	
26 24 19 00-0508	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp	102,115.81	742.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	445.72	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
26 24 19 00-0509	EA	2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111,192.30 482.90	804.82
26 24 19 00-0510	EA	2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,859.37 148.56	247.60
26 24 19 00-0511	EA	2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,921.30 167.14	278.55
26 24 19 00-0512	EA	2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,983.17 185.70	309.50
26 24 19 00-0513	EA	2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,045.05 204.26	340.45
26 24 19 00-0514	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,111.00 222.83	371.40
26 24 19 00-0515	EA	2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,172.95 241.42	402.35
26 24 19 00-0516	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,234.85 259.99	433.30
26 24 19 00-0517	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,482.39 334.25	557.10
26 24 19 00-0518	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,633.90 371.40	619.00
26 24 19 00-0519	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,757.82 408.58	680.90
26 24 19 00-0520	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,037.70 445.72	742.80
26 24 19 00-0521	EA	Add For Reversing Starters, 100 To 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,386.58 74.28	
26 24 19 00-0522	EA	Add For Reversing Starters, 1,000 To 1,500 Hp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,670.27 74.28	
26 24 19 00-0523	EA	Add For Reversing Starters, 1,750 To 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,786.88 74.28	
26 24 19 00-0524 4.8 KV Motor Control Centers (26 24 19 00-0483)				
26 24 19 00-0525	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,595.19 222.83	371.40
26 24 19 00-0526	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,657.14 241.42	402.35
26 24 19 00-0527	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,719.04 259.99	433.30
26 24 19 00-0528	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,780.97 278.57	464.25
26 24 19 00-0529	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,835.74 297.12	495.20
26 24 19 00-0530	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,897.71 315.71	526.15
26 24 19 00-0531	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,959.50 334.25	557.10
26 24 19 00-0532	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,021.51 352.85	588.05
26 24 19 00-0533	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,083.34 371.40	619.00
26 24 19 00-0534	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,960.84 482.90	804.82
26 24 19 00-0535	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,084.15 519.89	866.47
26 24 19 00-0536	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,366.08 557.04	928.37
26 24 19 00-0537	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,489.73 594.14	990.27
26 24 19 00-0538	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,819.23 222.83	371.40
26 24 19 00-0539	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,164.88 241.42	402.35
26 24 19 00-0540	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,502.44 259.99	433.30
26 24 19 00-0541	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,897.77 278.57	464.25
26 24 19 00-0542	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,796.55 297.12	495.20
26 24 19 00-0543	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,272.97 315.71	526.15
26 24 19 00-0544	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,536.44 334.25	557.10
26 24 19 00-0545	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47,843.72 352.85	588.05
26 24 19 00-0546	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55,403.16 371.40	619.00
26 24 19 00-0547	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60,543.20 389.98	649.95
26 24 19 00-0548	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65,745.14 427.13	711.86
26 24 19 00-0549	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70,040.22 445.72	742.80

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0550 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74,091.94 464.25	773.75
26 24 19 00-0551 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79,757.05 482.90	804.82
26 24 19 00-0552 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126,349.59 594.14	990.27
26 24 19 00-0553 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	140,496.43 631.42	1,052.43
26 24 19 00-0554 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168,837.34 668.49	1,114.20
26 24 19 00-0555 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178,574.10 668.49	1,114.20
26 24 19 00-0556 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,513.49 259.99	433.30
26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,575.42 278.57	464.25
26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,637.27 297.12	495.20
26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,699.24 315.71	526.15
26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,896.84 334.25	557.10
26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,958.85 352.85	588.05
26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,020.68 371.40	619.00
26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,082.61 389.98	649.95
26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,144.60 408.58	680.90
26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,515.66 519.89	866.47
26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,950.86 557.04	928.37
26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,222.47 594.14	990.27
26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,222.47 594.14	990.27
26 24 19 00-0569 EA Add For Reversing Starters, 100 To 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,330.32 74.28	
26 24 19 00-0570 EA Add For Reversing Starters, 1,500 To 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,674.36 74.28	
26 24 19 00-0571 EA Add For Reversing Starters, 3,000 To 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,879.21 74.28	
26 24 19 00-0572 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0483)		
26 24 19 00-0573 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amperes.....	14,747.93	247.60
26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes.....	17,725.63	371.40
26 24 19 00-0575 EA 2.4/4.8 KV NEMA 3 Weather Resistant.....	5,801.84	
26 24 19 00-0576 EA 2.4/4.8 KV Space Heaters.....	297.96	18.57
26 24 19 00-0577 EA 2.4/4.8 KV Potential Transformer Fused.....	1,680.84	
26 24 19 00-0578 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA.....	901.85	
26 24 19 00-0579 EA 2.4/4.8 KV Control Transformer 4 KVA Max.....	2,685.90	
26 24 19 00-0580 EA 2.4/4.8 KV Pushbuttons Each.....	172.02	
26 24 19 00-0581 EA 2.4/4.8 KV Selector Switch Each.....	570.11	
26 24 19 00-0582 EA 2.4/4.8 KV Indicating Light.....	172.02	
26 24 19 00-0583 EA 2.4/4.8 KV Push To Test Light.....	520.96	
26 24 19 00-0584 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type.....	1,385.95	
26 24 19 00-0585 EA 2.4/4.8 KV AC Ammeter, Switchboard Type.....	1,385.95	
26 24 19 00-0586 EA 2.4/4.8 KV Power Factor Meter.....	4,145.58	
26 24 19 00-0587 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout.....	2,857.92	
26 24 19 00-0588 EA 2.4/4.8 KV Operation Counter.....	558.10	18.57
26 24 19 00-0589 EA 2.4/4.8 KV Phase Failure Protection.....	4,011.35	61.90
26 24 19 00-0590 EA 2.4/4.8 KV Ground Protection.....	7,660.08	30.95
26 24 19 00-0591 EA 2.4/4.8 KV Synchronous Motor DC Protection.....	2,825.88	30.95
26 24 19 00-0592 EA 2.4/4.8 KV Lightning Arresters.....	5,636.30	18.57
26 24 19 00-0593 EA 2.4/4.8 KV Portable Lifting Mechanism.....	8,161.78	
26 24 19 00-0594 EA 2.4/4.8 KV Auxiliary Timing Relay.....	1,123.81	61.90
26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Control Relay.....	785.10	61.90
26 24 19 00-0596 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0483)		
Note: 3 Pole. Includes structure.		
26 24 19 00-0597 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included.....	1,361.00	371.21
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included.....	2,363.24	657.07
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	2,831.27	841.32
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	4,540.47	1,354.78



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0601	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	5,334.57	1,490.25
26 24 19 00-0602	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	6,857.68	1,652.82
26 24 19 00-0603	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included.....	7,982.78	1,937.33
26 24 19 00-0604	EA	Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included.....	13,680.24	2,257.06
26 24 19 00-0605 Main Lugs Only (26 24 19 00-0483)				
26 24 19 00-0606	EA	600 Amperes Incoming Section, Main Lugs	1,100.81	474.18
26 24 19 00-0607	EA	800 Amperes Incoming Section, Main Lugs	1,196.71	474.18
26 24 19 00-0608	EA	1,200 Amperes Incoming Section, Main Lugs.....	1,683.12	745.13
26 24 19 00-0609	EA	2,000 Amperes Incoming Section, Main Lugs.....	4,075.01	1,354.78
26 24 19 00-0610	EA	3,000 Amperes Incoming Section, Main Lugs.....	6,189.17	1,964.43
26 24 19 00-0611	EA	4,000 Amperes Incoming Section, Main Lugs.....	8,820.95	2,709.56
26 24 19 00-0612 Incoming Main Circuit Breaker Structure (26 24 19 00-0483)				
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.				
26 24 19 00-0613	EA	225 Amperes, Main Circuit Breaker Section	7,103.52	655.57
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0614	EA	400 Amperes, Main Circuit Breaker Section	15,004.50	842.13
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0615	EA	600 Amperes, Main Circuit Breaker Section	15,638.56	1,311.69
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0616	EA	800 Amperes, Main Circuit Breaker Section	22,145.15	1,311.69
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0617	EA	1,200 Amperes, Main Circuit Breaker Section	31,996.31	1,484.16
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0618 Incoming Fusible Main Disconnect Section (26 24 19 00-0483)				
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.				
26 24 19 00-0619	EA	200 Amperes, Fusible Main Disconnect Section.....	6,179.87	656.39
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0620	EA	400 Amperes, Fusible Main Disconnect Section.....	8,524.09	842.54
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0621	EA	600 Amperes, Fusible Main Disconnect Section.....	16,607.57	1,312.77
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0622	EA	800 Amperes, Fusible Main Disconnect Section.....	19,276.69	1,312.77
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
		For NEMA 1 With Gaskets, Add	97.00	
		For NEMA 12, Add	245.00	
		For 20" Cabinet Depth, Add	108.00	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0623 EA 1,200 Amperes, Fusible Main Disconnect Section..... For 800 Amperes, Tin Plated Copper Bus, Add For 1,200 Amperes, Tin Plated Copper Bus, Add For NEMA 1 With Gaskets, Add For NEMA 12, Add For 20" Cabinet Depth, Add	27,099.50 182.00 334.00 97.00 245.00 108.00	1,485.52
26 24 19 00-0624 Circuit Breaker Combination Starters (26 24 19 00-0483)		
26 24 19 00-0625 Class I, Type A (26 24 19 00-0624)		
26 24 19 00-0626 EA Size 1, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,127.59 156.80	275.02
26 24 19 00-0627 EA Size 2, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,309.17 173.69	275.02
26 24 19 00-0628 EA Size 3, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,895.13 233.58	390.18
26 24 19 00-0629 EA Size 4, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,065.10 307.90	513.46
26 24 19 00-0630 EA Size 5, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,443.09 384.88	642.16
26 24 19 00-0631 Class I, Type B (26 24 19 00-0624)		
26 24 19 00-0632 EA Size 1, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,063.44 135.48	239.79
26 24 19 00-0633 EA Size 2, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,238.75 152.57	239.79
26 24 19 00-0634 EA Size 3, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,811.28 208.43	346.82
26 24 19 00-0635 EA Size 4, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,979.58 282.25	470.10
26 24 19 00-0636 EA Size 5, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,374.11 364.19	600.17
26 24 19 00-0637 Class I, Type C (26 24 19 00-0624)		
26 24 19 00-0638 EA Size 1, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,114.61 122.72	222.18
26 24 19 00-0639 EA Size 2, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,302.18 144.13	222.18
26 24 19 00-0640 EA Size 3, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,930.24 199.23	331.92
26 24 19 00-0641 EA Size 4, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,106.25 275.36	459.27
26 24 19 00-0642 EA Size 5, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,490.25 352.81	589.33
26 24 19 00-0643 Class II, Type B (26 24 19 00-0624)		
26 24 19 00-0644 EA Size 1, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,139.29 186.10	329.21
26 24 19 00-0645 EA Size 2, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,556.81 207.79	329.21
26 24 19 00-0646 EA Size 3, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,194.91 262.55	438.95
26 24 19 00-0647 EA Size 4, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,551.83 338.69	562.23
26 24 19 00-0648 EA Size 5, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,336.38 413.04	686.87
26 24 19 00-0649 Class II, Type C (26 24 19 00-0624)		
26 24 19 00-0650 EA Size 1, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,402.56 178.26	311.59
26 24 19 00-0651 EA Size 2, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,606.80 194.65	311.59
26 24 19 00-0652 EA Size 3, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,320.43 254.66	425.40
26 24 19 00-0653 EA Size 4, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,668.56 328.83	548.69
26 24 19 00-0654 EA Size 5, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,471.64 408.06	677.39
26 24 19 00-0655 Fused Disconnect Combination Starter (26 24 19 00-0483)		
26 24 19 00-0656 Class I, Type A (26 24 19 00-0655)		
26 24 19 00-0657 EA Size 1, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,032.80 152.57	253.34
26 24 19 00-0658 EA Size 2, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,547.87 207.79	346.82



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0659 EA Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,435.05 270.96	451.14
26 24 19 00-0660 EA Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,335.27 380.55	632.68
26 24 19 00-0661 EA Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,765.56 483.85	806.09
26 24 19 00-0662 Class I, Type B (26 24 19 00-0655)		
26 24 19 00-0663 EA Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,043.35 135.48	226.25
26 24 19 00-0664 EA Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,406.70 186.10	310.24
26 24 19 00-0665 EA Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,070.19 249.04	414.56
26 24 19 00-0666 EA Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,439.19 360.31	598.82
26 24 19 00-0667 EA Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,850.72 457.70	761.39
26 24 19 00-0668 Class I, Type C (26 24 19 00-0655)		
26 24 19 00-0669 EA Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,097.21 126.85	211.35
26 24 19 00-0670 EA Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,476.24 173.69	287.21
26 24 19 00-0671 EA Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,238.02 241.92	399.66
26 24 19 00-0672 EA Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,605.73 352.81	589.33
26 24 19 00-0673 EA Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,542.64 451.59	753.25
26 24 19 00-0674 Class II, Type B (26 24 19 00-0655)		
26 24 19 00-0675 EA Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,324.27 190.28	317.02
26 24 19 00-0676 EA Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,706.95 236.85	395.59
26 24 19 00-0677 EA Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,458.80 305.13	509.39
26 24 19 00-0678 EA Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,967.81 413.04	686.87
26 24 19 00-0679 EA Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,721.20 513.17	857.57
26 24 19 00-0680 Class II, Type C (26 24 19 00-0655)		
26 24 19 00-0681 EA Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,366.83 178.26	298.05
26 24 19 00-0682 EA Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,776.01 224.30	373.92
26 24 19 00-0683 EA Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,596.43 291.98	486.36
26 24 19 00-0684 EA Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,116.51 403.21	670.62
26 24 19 00-0685 EA Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,862.46 498.08	830.47
26 24 19 00-0686 Space Complete With Bus And Hardware (26 24 19 00-0483)		
26 24 19 00-0687 Circuit Breaker Type (26 24 19 00-0686)		
26 24 19 00-0688 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	322.02	92.12
26 24 19 00-0689 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	322.02	92.12
26 24 19 00-0690 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	478.08	134.12
26 24 19 00-0691 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	570.99	176.12
26 24 19 00-0692 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	952.64	268.25
26 24 19 00-0693 Fused Disconnect Type (26 24 19 00-0686)		
26 24 19 00-0694 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	322.02	92.12
26 24 19 00-0695 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	429.49	134.12
26 24 19 00-0696 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	594.76	176.12
26 24 19 00-0697 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	1,018.99	268.25
26 24 19 00-0698 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,423.83	390.18
26 24 19 00-0699 Blank Space For Future Expansion (26 24 19 00-0686) Note: Factory modified no labor costs.		
26 24 19 00-0700 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	138.45	
26 24 19 00-0701 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	138.45	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0702 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs	209.91	
26 24 19 00-0703 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs	209.91	
26 24 19 00-0704 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs	417.58	
26 24 19 00-0705 Structure Combination Of Starters To 72" High (26 24 19 00-0686)		
26 24 19 00-0706 EA Structure Combination Of Starters To 72" High	3,676.74	713.02
26 24 19 00-0707 Motor Control Center Basic Distribution Section (26 24 19 00-0483)		
26 24 19 00-0708 EA 20" Wide Basic Section With Vertical Wireway	6,295.71	1,856.86
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0709 EA 25" To 35" Wide Basic Section (No Vertical Wireway)	6,295.71	1,856.86
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0710 EA 25" Wide Basic Section With 9" Wide Vertical Wireway	6,904.11	1,856.86
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711 EA Corner Section	6,904.11	1,856.86
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712 Motor Control Center Starters With HMCP Circuit Breaker (26 24 19 00-0483)		
Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0713 FVNR Starters With HMCP Circuit Breaker (26 24 19 00-0712)		
26 24 19 00-0714 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker	1,580.18	260.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.47	
26 24 19 00-0715 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker	1,758.57	289.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	173.54	
26 24 19 00-0716 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker	3,021.61	388.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	233.32	
26 24 19 00-0717 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker	4,370.32	512.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	307.62	
26 24 19 00-0718 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker	9,835.26	640.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	384.44	
26 24 19 00-0719 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker	22,796.29	640.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	384.44	
26 24 19 00-0720 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker	1,586.24	225.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.33	
26 24 19 00-0721 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker	1,788.92	254.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.41	
26 24 19 00-0722 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker	3,077.08	346.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	208.09	
26 24 19 00-0723 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker	4,362.74	470.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	282.09	
26 24 19 00-0724 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker	9,845.28	606.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	364.19	
26 24 19 00-0725 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker	22,945.77	606.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	364.19	
26 24 19 00-0726 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker (26 24 19 00-0712)		
26 24 19 00-0727 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,508.80	326.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	195.78	
26 24 19 00-0728 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	3,068.40	361.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	216.65	



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Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0729 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,030.26 291.14	485.28
26 24 19 00-0730 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,607.00 384.88	641.48
26 24 19 00-0731 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,457.78 481.55	802.57
26 24 19 00-0732 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,536.07 169.07	281.80
26 24 19 00-0733 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,121.25 190.63	317.69
26 24 19 00-0734 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,106.57 260.54	434.21
26 24 19 00-0735 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,616.38 352.81	587.97
26 24 19 00-0736 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,487.71 455.64	759.35
26 24 19 00-0737 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker (26 24 19 00-0712)		
26 24 19 00-0738 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,741.41 195.78	326.37
26 24 19 00-0739 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,876.33 216.65	361.05
26 24 19 00-0740 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,267.95 291.14	485.28
26 24 19 00-0741 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,892.55 384.88	641.48
26 24 19 00-0742 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,714.51 481.55	802.57
26 24 19 00-0743 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,768.68 169.07	281.80
26 24 19 00-0744 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,929.17 190.63	317.69
26 24 19 00-0745 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,344.26 260.54	434.21
26 24 19 00-0746 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,901.93 352.81	587.97
26 24 19 00-0747 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,744.44 455.64	759.35
26 24 19 00-0748 Motor Control Center Starters With Fusible Disconnect (26 24 19 00-0483)		
Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0749 FVNR Starters With Fusible Disconnect (26 24 19 00-0748)		
26 24 19 00-0750 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,285.46	254.29
26 24 19 00-0751 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,679.02	345.61
26 24 19 00-0752 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,769.40	450.33
26 24 19 00-0753 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	4,639.78	634.30
26 24 19 00-0754 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	9,209.82	806.36
26 24 19 00-0755 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	23,048.45	806.36
26 24 19 00-0756 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,303.37	225.44
26 24 19 00-0757 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,707.80	309.57
26 24 19 00-0758 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,838.31	415.10
26 24 19 00-0759 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,649.84	600.57
26 24 19 00-0760 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	9,200.17	762.87
26 24 19 00-0761 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	23,178.38	762.87
26 24 19 00-0762 Two Speed 2-Winding (TS2W) With Fusible Disconnect (26 24 19 00-0748)		
26 24 19 00-0763 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,185.81	318.37
26 24 19 00-0764 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,042.77	432.04
26 24 19 00-0765 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,685.69	562.64
26 24 19 00-0766 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,729.86	795.12
26 24 19 00-0767 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	15,743.02	930.46
26 24 19 00-0768 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,227.99	281.80
26 24 19 00-0769 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,091.60	386.66
26 24 19 00-0770 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,777.73	519.42
26 24 19 00-0771 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,754.69	749.32
26 24 19 00-0772 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	15,753.26	877.49
26 24 19 00-0773 Two Speed 1-Winding (TS1W) With Fusible Disconnect (26 24 19 00-0748)		
26 24 19 00-0774 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,536.27	318.37
26 24 19 00-0775 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,863.11	432.04
26 24 19 00-0776 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,946.64	562.64
26 24 19 00-0777 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,201.28	795.12
26 24 19 00-0778 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	19,134.45	930.46
26 24 19 00-0779 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,579.49	281.80
26 24 19 00-0780 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,911.93	386.66
26 24 19 00-0781 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,038.68	519.42

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0782 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,226.11	749.32
26 24 19 00-0783 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	19,144.69	877.49
26 24 19 00-0784 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0483)		
Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0785 EA 600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	269.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 24 19 00-0786 EA 800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	329.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 24 19 00-0787 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	396.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.22	
26 24 19 00-0788 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	514.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.22	
26 24 19 00-0789 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	860.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.26	
26 24 19 00-0790 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	155.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.15	
26 24 19 00-0791 Disconnect (Safety) Switch For Motor Control Centers (26 24 19 00-0483)		
26 24 19 00-0792 3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0791)		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0793 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,506.15	195.76
26 24 19 00-0794 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,783.93	216.76
26 24 19 00-0795 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	3,363.92	291.96
26 24 19 00-0796 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	5,699.21	384.76
26 24 19 00-0797 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	10,063.16	480.95
26 24 19 00-0798 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	11,559.30	480.95
26 24 19 00-0799 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	24,271.88	602.20
26 24 19 00-0800 Fusible Disconnect (Safety) Switch For Motor Control Center (26 24 19 00-0791)		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0801 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	892.42	190.34
26 24 19 00-0802 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	1,061.66	259.44
26 24 19 00-0803 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,448.52	331.92
26 24 19 00-0804 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,661.57	475.53
26 24 19 00-0805 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,663.08	604.77
26 24 19 00-0806 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	10,493.79	604.77
26 24 19 00-0807 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	12,974.96	755.96
26 24 19 00-0808 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	19,078.60	755.96
26 24 19 00-0809 Control Circuit Transformer (26 24 19 00-0483)		
26 24 19 00-0810 EA Control Circuit Transformer, Size 1 Factory Installed.....	73.86	
26 24 19 00-0811 EA Control Circuit Transformer, Size 2 Factory Installed.....	73.86	
26 24 19 00-0812 EA Control Circuit Transformer, Size 3 Factory Installed.....	142.25	
26 24 19 00-0813 EA Control Circuit Transformer, Size 4 Factory Installed.....	142.25	
26 24 19 00-0814 EA Control Circuit Transformer, Size 5 Factory Installed.....	197.62	
26 24 19 00-0815 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	59.27	15.34
26 24 19 00-0816 Cover Mounted Control Devices (26 24 19 00-0483)		
26 24 19 00-0817 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	130.31	27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.94	
26 24 19 00-0818 EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....	147.16	27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.17	
26 24 19 00-0819 EA Control Device, Pilot Light Cover Mounted.....	121.62	27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.69	
26 24 19 00-0820 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....	338.27	92.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.52	
26 24 19 00-0821 EA Auxiliary Contact Add Per Starter.....	388.16	35.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.06	
26 24 19 00-0822 Extra Interlocks (26 24 19 00-0483)		
Note: Per contact.		
26 24 19 00-0823 EA Extra Interlocks, Class I, Type A Per Contact.....	85.53	17.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.69	
26 24 19 00-0824 EA Extra Interlocks, Class I, Type B Per Contact.....	116.40	17.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.69	
26 24 19 00-0825 EA Extra Interlocks, Class I, Type C Per Contact.....	127.91	17.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.58	
26 24 19 00-0826 EA Extra Interlocks, Class II, Type B Per Contact.....	114.67	17.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.47	
26 24 19 00-0827 EA Extra Interlocks, Class II, Type C Per Contact.....	120.11	17.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.39	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards and Panelboards	26 24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0828		Special Cabinet Provisions (26 24 19 00-0483)		
26 24 19 00-0829	EA	Provisions For Bus Duct Entrance Special Cabinet Provisions	924.64	
26 24 19 00-0830		Nameplate Requirements (26 24 19 00-0483)		
26 24 19 00-0831	EA	Special Cabinet Nameplate Requirements	32.83	
26 24 19 00-0832		Auxiliary Relays (26 24 19 00-0483)		
26 24 19 00-0833	EA	Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.47 20.37	33.94
26 24 19 00-0834	EA	Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay	179.59	30.55
26 24 19 00-0835	EA	General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base	105.88	30.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.37	
26 24 19 00-0836		Motor Control Center Accessories (26 24 19 00-0483)		
26 24 19 00-0837		Lighting Transformer With Circuit Breaker (26 24 19 00-0836) Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0838	EA	1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,467.20	433.97
26 24 19 00-0839	EA	1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,684.29	451.34
26 24 19 00-0840	EA	1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,217.26	486.05
26 24 19 00-0841	EA	1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,791.92	520.77
26 24 19 00-0842	EA	1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,438.65	555.48
26 24 19 00-0843	EA	1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,807.81	624.93
26 24 19 00-0844	EA	1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,795.55	694.36
26 24 19 00-0845	EA	3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,854.06	572.85
26 24 19 00-0846	EA	3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,706.60	624.93
26 24 19 00-0847	EA	3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,239.99	694.36
26 24 19 00-0848	EA	3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,992.47	763.79
26 24 19 00-0849	EA	3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	15,652.29	833.23
26 24 19 00-0850	EA	3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,161.62	902.66
26 24 19 00-0851		Bolt-On Lighting Panel (26 24 19 00-0836) Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0852	EA	18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,413.11	705.02
26 24 19 00-0853	EA	30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,787.92	1,227.16
26 24 19 00-0854	EA	42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	5,039.79	1,660.27
26 24 19 00-0855	EA	18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,528.71	762.87
26 24 19 00-0856	EA	30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,735.70	1,201.01
26 24 19 00-0857	EA	42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	5,247.33	1,764.05
26 24 19 00-0858	EA	18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	3,998.68	817.75
26 24 19 00-0859	EA	30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	5,368.75	1,312.77
26 24 19 00-0860	EA	42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	6,732.92	1,764.05
26 24 19 00-0861	EA	18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	4,127.30	881.96
26 24 19 00-0862	EA	30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	5,368.75	1,312.77
26 24 19 00-0863	EA	42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	6,846.72	1,820.95
26 24 19 00-0864		Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0836) Note: For MCC lighting panel only.		
26 24 19 00-0865	EA	15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker	44.70	
26 24 19 00-0866	EA	15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker	284.96	
26 24 19 00-0867	EA	15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	87.38	
26 24 19 00-0868	EA	60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	201.17	
26 24 19 00-0869	EA	15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	235.71	
26 24 19 00-0870	EA	60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	357.63	
26 24 19 00-0871		Blank Unit Door (BUD) (26 24 19 00-0836) Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0872	EA	6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	75.99	
26 24 19 00-0873	EA	12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	91.19	
26 24 19 00-0874	EA	18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	136.78	
26 24 19 00-0875	EA	24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	182.37	
26 24 19 00-0876	EA	30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	273.56	
26 24 19 00-0877	EA	48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	319.16	
26 24 19 00-0878	EA	72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	364.75	

26 25 Enclosed Bus Assemblies (26 20)**26 25 13 Low-Voltage Busways** (26 25)

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0001 Plug-In Bus Duct ^(26 25 13) Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors ^(26 25 13 00-0001)		
26 25 13 00-0003 LF 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	302.80	40.64
For Up To 25, Add	75.70	
For >25 To 50, Add	45.42	
For >50 To 100, Add	22.71	
26 25 13 00-0004 LF 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	425.30	40.64
For Up To 25, Add	106.33	
For >25 To 50, Add	63.80	
For >50 To 100, Add	31.90	
26 25 13 00-0005 LF 600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	537.42	54.19
For Up To 25, Add	134.36	
For >25 To 50, Add	80.61	
For >50 To 100, Add	40.31	
26 25 13 00-0006 LF 800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	737.59	54.19
For Up To 25, Add	184.40	
For >25 To 50, Add	110.64	
For >50 To 100, Add	55.32	
26 25 13 00-0007 LF 1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	778.41	67.74
For Up To 25, Add	194.60	
For >25 To 50, Add	116.76	
For >50 To 100, Add	58.38	
26 25 13 00-0008 LF 1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,078.99	67.74
For Up To 25, Add	269.75	
For >25 To 50, Add	161.85	
For >50 To 100, Add	80.92	
26 25 13 00-0009 LF 1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,260.04	71.12
For Up To 25, Add	315.01	
For >25 To 50, Add	189.01	
For >50 To 100, Add	94.50	
26 25 13 00-0010 LF 2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,530.07	73.16
For Up To 25, Add	382.52	
For >25 To 50, Add	229.51	
For >50 To 100, Add	114.76	
26 25 13 00-0011 LF 2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,884.32	77.22
For Up To 25, Add	471.08	
For >25 To 50, Add	282.65	
For >50 To 100, Add	141.32	
26 25 13 00-0012 LF 3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,176.02	90.10
For Up To 25, Add	544.01	
For >25 To 50, Add	326.40	
For >50 To 100, Add	163.20	
26 25 13 00-0013 LF 4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,516.37	98.22
For Up To 25, Add	629.09	
For >25 To 50, Add	377.46	
For >50 To 100, Add	188.73	
26 25 13 00-0014 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors ^(26 25 13 00-0001)		
26 25 13 00-0015 LF 225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	487.18	40.64
For Up To 25, Add	121.80	
For >25 To 50, Add	73.08	
For >50 To 100, Add	36.54	
26 25 13 00-0016 LF 400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	699.89	40.64
For Up To 25, Add	174.97	
For >25 To 50, Add	104.98	
For >50 To 100, Add	52.49	
26 25 13 00-0017 LF 600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	791.34	54.19
For Up To 25, Add	197.84	
For >25 To 50, Add	118.70	
For >50 To 100, Add	59.35	
26 25 13 00-0018 LF 800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,003.70	54.19
For Up To 25, Add	250.93	
For >25 To 50, Add	150.56	
For >50 To 100, Add	75.28	
26 25 13 00-0019 LF 1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,222.42	67.74
For Up To 25, Add	305.61	
For >25 To 50, Add	183.36	
For >50 To 100, Add	91.68	
26 25 13 00-0020 LF 1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,579.64	67.74
For Up To 25, Add	394.91	
For >25 To 50, Add	236.95	
For >50 To 100, Add	118.47	
26 25 13 00-0021 LF 1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,039.23	70.18
For Up To 25, Add	509.81	
For >25 To 50, Add	305.88	
For >50 To 100, Add	152.94	
26 25 13 00-0022 LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,452.53	73.16
For Up To 25, Add	613.13	
For >25 To 50, Add	367.88	
For >50 To 100, Add	183.94	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Enclosed Bus Assemblies	26 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	3,037.50 759.38 455.63 227.81	76.55
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	3,506.65 876.66 526.00 263.00	90.10
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	4,062.98 1,015.75 609.45 304.72	98.22
26 25 13 00-0026 Cable Tap Boxes (26 25 13 00-0001)		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,445.25	189.67
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,533.41	189.67
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,742.67	257.40
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,923.02	257.40
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,137.93	338.69
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,439.08	338.69
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,533.41	372.57
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,758.22	372.57
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,952.73	508.04
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,318.80	508.04
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,496.29	677.39
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,975.42	677.39
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker (26 25 13 00-0001)		
26 25 13 00-0042 240 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,111.83	135.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.11	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	2,191.86	135.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.14	
26 25 13 00-0045 600 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	2,121.77	135.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.11	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	2,747.87	135.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.14	
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,280.09	162.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.68	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,531.05	162.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.84	
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	1,460.49	162.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.68	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	2,237.46	162.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.84	
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	3,302.83	562.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	243.67	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	7,862.82	562.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	529.21	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	8,840.48	1,625.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	736.29	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	11,207.36	1,625.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,302.67	
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch (26 25 13 00-0001)		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,109.35	135.48
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,220.86	135.48
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,683.61	162.57
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,844.16	325.14
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	7,163.58	731.58
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	10,750.44	1,273.49

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,150.34	149.02
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,259.17	149.02
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,695.18	149.02
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,910.06	311.59
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,127.40	704.48
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	11,007.03	1,354.78
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	17,972.19	1,761.21
26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse (26 25 13 00-0058)		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,282.87	176.12
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,381.05	176.12
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,866.85	176.12
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	3,163.75	365.79
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,868.33	812.86
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	11,460.91	1,246.40
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,324.36	176.12
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,422.54	149.43
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,989.53	203.21
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	3,295.14	365.79
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,868.33	812.86
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	11,460.91	1,246.40
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	18,083.59	1,652.82
26 25 16 Low-Voltage Cablebus Systems (26 25)		
26 25 16 00-0001 Feeder Bus Duct (26 25 16)		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 16 00-0001)		
Note: Copper conductors.		
26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	879.90	56.90
For Up To 25, Add	219.98	
For >25 To 50, Add	131.99	
For >50 To 100, Add	65.99	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	892.56	56.90
For Up To 25, Add	223.14	
For >25 To 50, Add	133.88	
For >50 To 100, Add	66.94	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,165.88	56.90
For Up To 25, Add	291.47	
For >25 To 50, Add	174.88	
For >50 To 100, Add	87.44	
26 25 16 00-0006 LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,398.80	56.90
For Up To 25, Add	349.70	
For >25 To 50, Add	209.82	
For >50 To 100, Add	104.91	
26 25 16 00-0007 LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,708.79	56.90
For Up To 25, Add	427.20	
For >25 To 50, Add	256.32	
For >50 To 100, Add	128.16	
26 25 16 00-0008 LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,332.32	135.48
For Up To 25, Add	583.08	
For >25 To 50, Add	349.85	
For >50 To 100, Add	174.92	
26 25 16 00-0009 LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	3,220.97	135.48
For Up To 25, Add	805.24	
For >25 To 50, Add	483.15	
For >50 To 100, Add	241.57	
26 25 16 00-0010 LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	3,810.88	135.48
For Up To 25, Add	952.72	
For >25 To 50, Add	571.63	
For >50 To 100, Add	285.82	
26 25 16 00-0011 LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	4,691.97	135.48
For Up To 25, Add	1,172.99	
For >25 To 50, Add	703.80	
For >50 To 100, Add	351.90	
26 25 16 00-0012 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated (26 25 16 00-0001)		
Note: Low impedance, copper conductors.		
26 25 16 00-0013 LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	1,007.45	60.96
For Up To 25, Add	251.86	
For >25 To 50, Add	151.12	
For >50 To 100, Add	75.56	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Enclosed Bus Assemblies		26 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,024.26	60.96
For Up To 25, Add	256.07	
For >25 To 50, Add	153.64	
For >50 To 100, Add	76.82	
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,316.08	60.96
For Up To 25, Add	329.02	
For >25 To 50, Add	197.41	
For >50 To 100, Add	98.71	
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,560.02	60.96
For Up To 25, Add	390.01	
For >25 To 50, Add	234.00	
For >50 To 100, Add	117.00	
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,883.80	60.96
For Up To 25, Add	470.95	
For >25 To 50, Add	282.57	
For >50 To 100, Add	141.29	
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,892.33	104.32
For Up To 25, Add	723.08	
For >25 To 50, Add	433.85	
For >50 To 100, Add	216.92	
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,627.23	104.32
For Up To 25, Add	906.81	
For >25 To 50, Add	544.08	
For >50 To 100, Add	272.04	
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	4,292.26	193.73
For Up To 25, Add	1,073.07	
For >25 To 50, Add	643.84	
For >50 To 100, Add	321.92	
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	5,290.81	193.73
For Up To 25, Add	1,322.70	
For >25 To 50, Add	793.62	
For >50 To 100, Add	396.81	

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

Note: NEMA 3R. See CSI section 26 27 13 00-0013 for meter.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	325.02	88.06
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	345.51	88.06
26 27 13 00-0005 EA 150 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	383.57	98.22
26 27 13 00-0006 EA 150 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	396.73	98.22
26 27 13 00-0007 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	442.12	108.38
26 27 13 00-0008 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	447.95	108.38
26 27 13 00-0009 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	1,156.00	172.06
26 27 13 00-0010 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	1,485.37	192.38
26 27 13 00-0011 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	3,293.99	212.70
26 27 13 00-0012 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	3,290.34	677.39

26 27 13 00-0013 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand. See CSI section 26 27 13 00-0002 for socket base.

26 27 13 00-0014 EA 100 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	331.33	27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.66	
26 27 13 00-0015 EA 150 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	392.69	28.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.87	
26 27 13 00-0016 EA 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	481.61	28.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.07	
26 27 13 00-0017 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	944.58	28.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.31	
26 27 13 00-0018 EA 320 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	1,324.88	30.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.33	
26 27 13 00-0019 EA 400 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	2,152.04	33.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.37	

26 27 13 00-0020 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0021 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure.....	667.05	176.12

26 27 13 00-0022 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)

26 27 13 00-0023 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0002)

26 27 13 00-0024 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,296.35	84.67
26 27 13 00-0025 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,708.10	101.61
26 27 13 00-0026 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,117.64	118.54
26 27 13 00-0027 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,454.26	135.48
26 27 13 00-0028 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	3,199.69	152.41
26 27 13 00-0029 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	3,454.54	169.34

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0030 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	4,030.56	203.21
26 27 13 00-0031 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole (26 27 13 00-0022)		
26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,401.27	84.67
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,164.38	101.61
26 27 13 00-0034 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,359.14	135.48
26 27 13 00-0035 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,834.96	152.41
26 27 13 00-0036 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	6,084.23	169.34
26 27 13 00-0037 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0022)		
26 27 13 00-0038 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,987.26	118.54
26 27 13 00-0039 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,613.36	135.48
26 27 13 00-0040 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,199.69	152.41
26 27 13 00-0041 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,763.92	169.34
26 27 13 00-0042 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,748.01	186.28
26 27 13 00-0043 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,980.79	203.21
26 27 13 00-0044 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,175.52	237.08
26 27 13 00-0045 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0022)		
26 27 13 00-0046 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,087.75	118.54
26 27 13 00-0047 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,049.75	135.48
26 27 13 00-0048 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,708.56	169.34
26 27 13 00-0049 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,118.10	186.28
26 27 13 00-0050 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	7,831.42	203.21
26 27 13 00-0051 120/208 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)		
26 27 13 00-0052 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0051)		
26 27 13 00-0053 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,409.77	101.61
26 27 13 00-0054 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,845.83	118.54
26 27 13 00-0055 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,279.68	135.48
26 27 13 00-0056 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,647.23	152.41
26 27 13 00-0057 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,255.66	169.34
26 27 13 00-0058 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,510.51	186.28
26 27 13 00-0059 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	4,329.61	220.15
26 27 13 00-0060 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0051)		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,523.54	101.61
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,330.84	118.54
26 27 13 00-0063 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,812.86	152.41
26 27 13 00-0064 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,288.70	169.34
26 27 13 00-0065 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	6,405.43	186.28
26 27 13 00-0066 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0051)		
26 27 13 00-0067 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,100.70	135.48
26 27 13 00-0068 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,735.66	152.41
26 27 13 00-0069 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,388.28	169.34
26 27 13 00-0070 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,952.53	186.28
26 27 13 00-0071 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,980.84	203.21
26 27 13 00-0072 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,213.54	220.15
26 27 13 00-0073 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,496.71	254.02
26 27 13 00-0074 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0051)		
26 27 13 00-0075 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,232.13	135.48
26 27 13 00-0076 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,260.44	152.41
26 27 13 00-0077 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,118.15	186.28
26 27 13 00-0078 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,395.07	203.21
26 27 13 00-0079 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	8,130.51	220.15
26 27 13 00-0080 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0081 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,296.35	84.67
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,708.10	101.61
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,454.26	135.48



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0085	EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,199.69	152.41
26 27 13 00-0086	EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,962.80	169.34
26 27 13 00-0087		1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0088	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,401.26	84.67
26 27 13 00-0089	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,164.37	101.61
26 27 13 00-0090	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,580.11	135.48
26 27 13 00-0091	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,055.94	152.41
26 27 13 00-0092	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	6,084.23	169.34
26 27 13 00-0093		800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0094	EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,987.26	118.54
26 27 13 00-0095	EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,613.36	135.48
26 27 13 00-0096	EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,763.92	169.34
26 27 13 00-0097	EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,748.01	186.28
26 27 13 00-0098	EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,980.79	203.21
26 27 13 00-0099		1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0100	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,087.76	118.54
26 27 13 00-0101	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,049.75	135.48
26 27 13 00-0102	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,708.56	169.34
26 27 13 00-0103	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,118.10	186.28
26 27 13 00-0104	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	7,831.46	203.21
26 27 13 00-0105		120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0106		800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)		
26 27 13 00-0107	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,409.77	101.61
26 27 13 00-0108	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,845.83	118.54
26 27 13 00-0109	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,647.23	152.41
26 27 13 00-0110	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,476.64	169.34
26 27 13 00-0111	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,952.48	186.28
26 27 13 00-0112		1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)		
26 27 13 00-0113	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,523.53	101.61
26 27 13 00-0114	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,330.83	118.54
26 27 13 00-0115	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,591.88	152.41
26 27 13 00-0116	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,067.71	169.34
26 27 13 00-0117	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	6,405.38	186.28
26 27 13 00-0118		800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)		
26 27 13 00-0119	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,100.68	135.48
26 27 13 00-0120	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,735.63	152.41
26 27 13 00-0121	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,952.48	186.28
26 27 13 00-0122	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,980.79	203.21
26 27 13 00-0123	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,213.54	220.15
26 27 13 00-0124		1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)		
26 27 13 00-0125	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,232.11	135.48
26 27 13 00-0126	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,260.41	152.41
26 27 13 00-0127	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,118.10	186.28
26 27 13 00-0128	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,395.07	203.21
26 27 13 00-0129	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	8,130.51	220.15
26 27 13 00-0130		Watt/Hour Meters (26 27 13)		
26 27 13 00-0131	EA	Single Phase M-90 Meter, Socket, NEMA 3R Enclosure	1,480.99	81.29
26 27 13 00-0132	EA	Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	4,199.29	162.57
26 27 13 00-0133	EA	Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	2,216.61	121.93
26 27 13 00-0134	EA	Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	2,721.29	121.93
26 27 13 00-0135	EA	Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure	2,290.74	121.93
26 27 13 00-0136	EA	C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,556.81	112.44
26 27 13 00-0137	EA	P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	2,659.00	203.21

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0138		Watt/Hour Meter Systems ^(26 27 13) Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
26 27 13 00-0139		Watt/Hour Meter System Without Main Breaker ^(26 27 13 00-0138)		
26 27 13 00-0140	EA	400 Amperes System; 200 Amperes M-90 Meter And Enclosure	6,749.06	813.00
26 27 13 00-0141	EA	600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure	7,940.11	813.00
26 27 13 00-0142		Watt/Hour Meter System With Main Breaker ^(26 27 13 00-0138)		
26 27 13 00-0143	EA	400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	11,978.36	813.00
26 27 13 00-0144	EA	600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	14,575.51	813.00
26 27 13 00-0145	EA	800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	15,676.94	813.00
26 27 16		Electrical Cabinets and Enclosures ^(26 27) Note: Can be used as enclosure or pull/junction boxes.		
26 27 16 00-0001		NEMA 1 Enclosures, Lockable ^(26 27 16)		
26 27 16 00-0002		Hinged Cover, Galvanized Steel NEMA 1 Enclosures ^(26 27 16 00-0001)		
26 27 16 00-0003		4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures ^(26 27 16 00-0002)		
26 27 16 00-0004	EA	6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	84.55	27.10
26 27 16 00-0005	EA	6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	94.72	29.81
26 27 16 00-0006	EA	8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	104.99	32.52
26 27 16 00-0007	EA	8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	122.56	37.93
26 27 16 00-0008	EA	10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	133.39	40.64
26 27 16 00-0009	EA	10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	144.96	43.35
26 27 16 00-0010	EA	12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	144.58	43.35
26 27 16 00-0011	EA	12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	156.42	46.07
26 27 16 00-0012	EA	12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	168.85	48.77
26 27 16 00-0013	EA	16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	219.27	65.03
26 27 16 00-0014	EA	16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	265.93	78.57
26 27 16 00-0015	EA	18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	252.84	75.87
26 27 16 00-0016		6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures ^(26 27 16 00-0002)		
26 27 16 00-0017	EA	6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	105.74	32.52
26 27 16 00-0018	EA	8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	128.11	37.93
26 27 16 00-0019	EA	10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	153.07	46.07
26 27 16 00-0020	EA	10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	165.21	48.77
26 27 16 00-0021	EA	12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	177.58	51.48
26 27 16 00-0022	EA	12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	190.50	54.19
26 27 16 00-0023	EA	16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	242.18	70.45
26 27 16 00-0024	EA	16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	293.83	86.71
26 27 16 00-0025	EA	18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	283.43	84.00
26 27 16 00-0026	EA	18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	368.94	108.38
26 27 16 00-0027	EA	24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	471.10	124.64
26 27 16 00-0028	EA	24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	537.16	135.48
26 27 16 00-0029	EA	30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	596.78	143.61
26 27 16 00-0030	EA	36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	649.64	149.02
26 27 16 00-0031	EA	24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L)	455.50	108.38
26 27 16 00-0032		Screw Cover, Galvanized Steel NEMA 1 Enclosures ^(26 27 16 00-0001)		
26 27 16 00-0033		3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures ^(26 27 16 00-0032)		
26 27 16 00-0034	EA	4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	59.56	18.97
26 27 16 00-0035	EA	6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	85.12	27.10
26 27 16 00-0036	EA	8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	94.98	29.81
26 27 16 00-0037		4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures ^(26 27 16 00-0032)		
26 27 16 00-0038	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	66.55	21.67
26 27 16 00-0039	EA	6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	82.49	27.10
26 27 16 00-0040	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	92.17	29.81
26 27 16 00-0041	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	102.04	32.52
26 27 16 00-0042	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	119.05	37.93
26 27 16 00-0043	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	129.39	40.64
26 27 16 00-0044	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	140.26	43.35
26 27 16 00-0045	EA	12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	139.85	43.35
26 27 16 00-0046	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	151.19	46.07
26 27 16 00-0047	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	162.89	48.77
26 27 16 00-0048	EA	16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	212.98	65.03
26 27 16 00-0049	EA	16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	263.85	81.29
26 27 16 00-0050	EA	18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	244.80	75.87
26 27 16 00-0051	EA	18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	317.15	97.54
26 27 16 00-0052	EA	24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	459.34	121.93



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	102.62	32.52
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	113.25	35.22
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	130.53	40.64
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	148.19	46.07
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	159.72	48.77
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	171.36	51.48
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	183.49	54.19
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	234.85	70.45
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	288.54	86.71
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	274.11	84.00
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	356.47	108.38
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	446.03	124.64
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	511.76	135.48
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	552.74	143.61
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	605.23	149.02
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	148.19	46.07
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	202.42	59.61
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	257.33	75.87
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	319.34	94.83
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	305.09	92.12
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	377.97	113.80
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	421.27	130.06
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	489.61	138.19
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	564.36	149.02
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	600.60	157.16
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	631.19	162.57
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	648.23	162.57
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	346.37	102.97
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	456.07	132.76
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	461.14	140.90
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	600.64	151.73
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	691.75	167.99
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	768.69	173.41
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	820.26	181.54
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	503.53	146.31
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	500.85	154.45
26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	660.30	167.99
26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	755.03	184.25
26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	848.33	192.38
26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	894.95	200.50
26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)		
26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)		
26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,303.53	119.22
26 27 16 00-0100 NEMA 12 Enclosures, Lockable (26 27 16)		
Note: Dust-tight enclosures.		
26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	117.75	21.67
26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	153.57	29.81
26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	190.15	37.93
26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	205.81	40.64
26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	230.70	43.35
26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	248.41	46.07
26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0110 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	170.42	32.52
26 27 16 00-0111 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	187.67	35.22
26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0113 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	241.50	21.67
26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	289.75	29.81
26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	327.65	32.52
26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	374.87	37.93
26 27 16 00-0118 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	385.60	40.64
26 27 16 00-0119 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	455.32	43.35
26 27 16 00-0120 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	488.87	46.07
26 27 16 00-0121 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	556.24	48.77
26 27 16 00-0122 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0123 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	352.72	32.52
26 27 16 00-0124 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	398.71	35.22
26 27 16 00-0125 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	434.64	40.64
26 27 16 00-0126 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	514.08	48.77
26 27 16 00-0127 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	558.31	54.19
26 27 16 00-0128 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	775.22	70.45
26 27 16 00-0129 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,201.30	108.38
26 27 16 00-0130 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,573.25	124.64
26 27 16 00-0131 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,773.69	135.48
26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,640.60	138.19
26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,890.54	149.02
26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,078.02	157.16
26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,290.93	162.57
26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,259.42	162.57
26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,215.26	220.15
26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,285.43	243.86
26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,356.86	260.79
26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	9,614.19	325.14
26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	10,735.66	383.40
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,772.68	383.40
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,664.39	406.44
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	9,840.71	433.53
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	10,858.69	433.53
26 27 16 00-0151 NEMA 3 Enclosures, Lockable (26 27 16) Note: Can be used underground or encased in concrete.		
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	380.12	94.83
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	410.25	94.83
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	531.11	98.22
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	551.62	98.22
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	699.55	101.61
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	525.57	98.22
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	579.19	98.22
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	603.99	101.61
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	768.70	101.61
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	846.01	108.38
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	911.12	115.15
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	950.30	115.15
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,135.64	118.54
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,234.05	121.93



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Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,699.11	135.48
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	812.57	104.99
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,028.21	118.54
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,209.96	121.93
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,399.09	125.32
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,491.49	125.32
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,698.61	135.48
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,966.15	152.41
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,852.05	145.64
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,604.60	270.95
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,285.75	338.69
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,504.86	128.70
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,270.59	169.34
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,308.33	169.34
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,119.58	254.02
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,128.78	270.95
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	10,544.20	474.18
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,512.35	338.69
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	8,513.93	406.44
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,989.77	372.57
26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)		
Note: Rain-tight enclosures.		
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	113.82	27.10
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	125.67	29.81
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	186.53	32.52
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	234.81	40.64
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	262.35	46.07
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	307.95	51.48
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	332.99	54.19
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	433.54	70.45
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	518.32	86.71
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	591.62	108.38
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	899.74	138.19
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	998.06	149.02
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,124.00	157.16
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,182.34	162.57
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,115.82	167.99
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,260.46	189.67
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,395.43	209.99
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,537.37	231.67
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,673.71	251.99
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	725.34	132.76
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,115.81	167.99
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,322.33	173.41
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,675.30	189.67
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,083.64	134.12
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,215.07	150.38
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,345.14	166.63
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,487.76	184.25

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,619.19	200.50
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	809.59	100.26
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,083.64	134.12
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,215.07	150.38
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,430.45	176.12
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,619.19	200.50
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,538.61	197.80
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,619.19	200.50
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,705.86	205.93
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,900.76	216.76
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	2,061.88	227.61
26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	83.30	21.67
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	100.51	27.10
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	110.99	29.81
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	123.19	32.52
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	143.01	37.93
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	156.03	40.64
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	170.23	43.35
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	169.43	43.35
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	185.47	46.07
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	199.68	48.77
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	301.21	75.87
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	402.58	97.54
26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	115.24	32.52
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	158.18	40.64
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	179.17	46.07
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	194.48	48.77
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	193.30	48.77
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	209.56	51.48
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	225.97	54.19
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	294.98	70.45
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	338.89	84.00
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	453.09	108.38
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	472.17	116.52
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	541.76	124.64
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	611.45	135.48
26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	253.18	59.61
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	365.26	92.12
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	501.48	119.22
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	599.40	138.19
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	680.00	149.02
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	757.52	157.16
26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	552.93	132.76
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	746.72	167.99
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	821.93	173.41
26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	825.26	184.25
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	1,163.29	200.50
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	1,202.59	205.93
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	1,412.42	216.76
26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0284 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	130.77	18.97
26 27 16 00-0285 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	152.51	23.03
26 27 16 00-0286 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	190.63	29.81
26 27 16 00-0287 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	181.16	29.81
26 27 16 00-0288 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	242.01	40.64
26 27 16 00-0289 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	301.78	48.77
26 27 16 00-0290 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	278.62	46.07
26 27 16 00-0291 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	324.76	54.19
26 27 16 00-0292 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure.....	382.35	62.31



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0293	EA	16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	463.01	78.57
26 27 16 00-0294		Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0295	EA	4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	119.77	18.97
26 27 16 00-0296	EA	6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	170.18	29.81
26 27 16 00-0297		Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298	EA	6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	150.05	26.01
26 27 16 00-0299	EA	8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	159.32	28.18
26 27 16 00-0300	EA	10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	195.22	36.85
26 27 16 00-0301	EA	12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	228.56	40.64
26 27 16 00-0302	EA	14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	295.84	51.48
26 27 16 00-0303	EA	16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	345.74	60.96
26 27 16 00-0304	EA	18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	484.99	97.54
26 27 16 00-0305		NEMA 4X Enclosures, Lockable (26 27 16) Note: Water-tight enclosures.		
26 27 16 00-0306		Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307	EA	6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	262.88	21.67
26 27 16 00-0308	EA	6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	309.23	29.81
26 27 16 00-0309	EA	10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	391.50	40.64
26 27 16 00-0310	EA	12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	475.37	48.77
26 27 16 00-0311	EA	14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	585.72	62.31
26 27 16 00-0312	EA	16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	690.86	78.57
26 27 16 00-0313		Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314	EA	4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	341.23	18.97
		For 316 Stainless Steel, Add	47.01	
26 27 16 00-0315	EA	6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	443.69	27.10
		For 316 Stainless Steel, Add	60.15	
26 27 16 00-0316	EA	6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	502.81	29.81
		For 316 Stainless Steel, Add	68.53	
26 27 16 00-0317	EA	8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	575.56	32.52
		For 316 Stainless Steel, Add	79.08	
26 27 16 00-0318	EA	10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	706.84	40.64
		For 316 Stainless Steel, Add	96.84	
26 27 16 00-0319	EA	12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	994.49	51.48
		For 316 Stainless Steel, Add	138.53	
26 27 16 00-0320	EA	14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,239.88	62.31
		For 316 Stainless Steel, Add	173.45	
26 27 16 00-0321	EA	16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,494.56	78.57
		For 316 Stainless Steel, Add	207.70	
26 27 16 00-0322		Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305) Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323	EA	6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	161.82	29.81
26 27 16 00-0324	EA	8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	182.39	32.52
26 27 16 00-0325	EA	8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	208.58	37.93
26 27 16 00-0326	EA	10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	226.85	40.64
26 27 16 00-0327	EA	12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	262.20	46.07
26 27 16 00-0328	EA	10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	246.12	46.07
26 27 16 00-0329	EA	12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	287.18	51.48
26 27 16 00-0330	EA	14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	360.30	62.31
26 27 16 00-0331	EA	16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	459.23	85.35
26 27 16 00-0332	EA	18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	589.01	122.87
26 27 16 00-0333	EA	6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	174.47	29.81
26 27 16 00-0334	EA	8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	197.34	32.52
26 27 16 00-0335	EA	8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	224.66	37.93
26 27 16 00-0336	EA	10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	246.37	40.64
26 27 16 00-0337	EA	12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	282.88	46.07
26 27 16 00-0338	EA	10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	265.66	46.07
26 27 16 00-0339	EA	12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	313.68	51.48
26 27 16 00-0340	EA	14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	374.08	62.31
26 27 16 00-0341	EA	16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	487.96	85.35
26 27 16 00-0342	EA	18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	620.02	122.87
26 27 16 00-0343		Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305) Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344	EA	6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	197.45	29.81
26 27 16 00-0345	EA	8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	211.12	32.52
26 27 16 00-0346	EA	8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	239.59	37.93
26 27 16 00-0347	EA	10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	259.01	40.64
26 27 16 00-0348	EA	12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	307.02	46.07
26 27 16 00-0349	EA	10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	281.75	46.07

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0350	EA	12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	346.98	51.48
26 27 16 00-0351	EA	14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	412.01	62.31
26 27 16 00-0352	EA	16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	504.04	85.35
26 27 16 00-0353	EA	18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	647.59	122.87
26 27 16 00-0354	EA	6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	206.64	29.81
26 27 16 00-0355	EA	8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	228.34	32.52
26 27 16 00-0356	EA	8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	255.67	37.93
26 27 16 00-0357	EA	10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	276.24	40.64
26 27 16 00-0358	EA	12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	330.00	46.07
26 27 16 00-0359	EA	10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	301.26	46.07
26 27 16 00-0360	EA	12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	371.12	51.48
26 27 16 00-0361	EA	14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	423.49	62.31
26 27 16 00-0362	EA	16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	541.94	85.35
26 27 16 00-0363	EA	18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	687.81	122.87
26 27 16 00-0364		NEMA 7/9 Enclosures, Lockable (26 27 16) Note: Nominal inside dimensions.		
26 27 16 00-0365		4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0366	EA	6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,773.99	152.41
		For Mounting Pan, Add.....	77.77	
26 27 16 00-0367	EA	6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,399.99	162.57
		For Mounting Pan, Add.....	144.91	
26 27 16 00-0368	EA	8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,784.45	182.89
		For Mounting Pan, Add.....	199.83	
26 27 16 00-0369		6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0370	EA	8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,468.84	182.89
		For Mounting Pan, Add.....	101.61	
26 27 16 00-0371	EA	8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,234.55	187.98
		For Mounting Pan, Add.....	199.83	
26 27 16 00-0372	EA	8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,306.04	203.21
		For Mounting Pan, Add.....	152.85	
26 27 16 00-0373	EA	10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,394.75	203.21
		For Mounting Pan, Add.....	178.84	
26 27 16 00-0374	EA	10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,811.50	254.02
		For Mounting Pan, Add.....	234.63	
26 27 16 00-0375	EA	12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,539.49	228.62
		For Mounting Pan, Add.....	146.50	
26 27 16 00-0376	EA	12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,690.05	254.02
		For Mounting Pan, Add.....	219.21	
26 27 16 00-0377	EA	12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,221.81	457.24
		For Mounting Pan, Add.....	294.91	
26 27 16 00-0378	EA	14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,754.72	304.82
		For Mounting Pan, Add.....	287.14	
26 27 16 00-0379	EA	16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,514.08	508.04
		For Mounting Pan, Add.....	263.61	
26 27 16 00-0380	EA	18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	9,041.49	508.04
		For Mounting Pan, Add.....	428.55	
26 27 16 00-0381		8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0382	EA	8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,861.45	228.62
		For Mounting Pan, Add.....	152.85	
26 27 16 00-0383	EA	10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,889.02	228.62
		For Mounting Pan, Add.....	178.84	
26 27 16 00-0384	EA	10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,414.08	228.62
		For Mounting Pan, Add.....	234.63	
26 27 16 00-0385	EA	12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,891.25	254.02
		For Mounting Pan, Add.....	146.50	
26 27 16 00-0386	EA	12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,079.58	457.24
		For Mounting Pan, Add.....	219.21	
26 27 16 00-0387	EA	12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	8,614.09	558.85
		For Mounting Pan, Add.....	294.91	
26 27 16 00-0388	EA	12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	13,604.79	660.45
		For Mounting Pan, Add.....	443.52	
26 27 16 00-0389	EA	14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,737.17	558.85
		For Mounting Pan, Add.....	287.14	
26 27 16 00-0390	EA	16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	7,953.25	558.85
		For Mounting Pan, Add.....	263.61	
26 27 16 00-0391	EA	16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	11,927.52	609.65
		For Mounting Pan, Add.....	395.15	
26 27 16 00-0392	EA	18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	9,832.22	558.85
		For Mounting Pan, Add.....	428.55	
26 27 16 00-0393	EA	18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	13,181.62	609.65
		For Mounting Pan, Add.....	626.67	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
26 27 16 00-0394	EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	13,089.88 835.44		609.65	
26 27 16 00-0395	EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	20,369.43 1,044.14		812.86	
26 27 16 00-0396	EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	15,488.24 970.87		660.45	
26 27 16 00-0397	EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	28,124.39 1,329.11		1,016.08	
26 27 16 00-0398	10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)				
26 27 16 00-0399	EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	14,160.63 443.52		660.45	
26 27 16 00-0400	EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	13,034.64 395.15		609.65	
26 27 16 00-0401	EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	14,202.00 626.67		660.45	
26 27 16 00-0402	EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	17,983.27 1,044.14		711.26	
26 27 16 00-0403	EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	15,883.87 970.87		711.26	
26 27 16 00-0404	EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	30,670.77 1,329.11		1,016.08	
26 27 16 00-0405	12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)				
26 27 16 00-0406	EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	8,812.33 294.91		558.85	
26 27 16 00-0407	Breaker Enclosures (26 27 16) See CSI section 26 24 16 00-0001 for lighting and power panel boards.				
26 27 16 00-0408	15 To 100 Amperes, F-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0409	EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	440.97		108.38	
26 27 16 00-0410	EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	809.91		108.38	
26 27 16 00-0411	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	1,995.64		149.02	
26 27 16 00-0412	EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,704.85		162.57	
26 27 16 00-0413	EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,972.90		162.57	
26 27 16 00-0414	EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	695.47		149.02	
26 27 16 00-0415	15 To 250 Amperes, H Or J-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0416	EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	703.75		149.02	
26 27 16 00-0417	EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	1,294.55		149.02	
26 27 16 00-0418	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	4,418.67		189.67	
26 27 16 00-0419	EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,069.75		189.67	
26 27 16 00-0420	125 To 400 Amperes, L-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0421	EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,102.63		298.05	
26 27 16 00-0422	EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	2,559.52		298.05	
26 27 16 00-0423	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	7,488.60		379.34	
26 27 16 00-0424	EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,829.78		379.34	
26 27 16 00-0425	300 To 800 Amperes, M-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0426	EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	2,159.49		569.01	
26 27 16 00-0427	EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	3,699.31		569.01	
26 27 16 00-0428	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	13,474.33		731.58	
26 27 16 00-0429	EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	7,297.26		731.58	
26 27 16 00-0430	250 To 1,200 Amperes, P-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0431	EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	2,632.83		569.01	
26 27 16 00-0432	EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	4,447.87		569.01	
26 27 16 00-0433	EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	9,171.62		731.58	
26 27 16 00-0434	Legend Plates (26 27 16)				
26 27 16 00-0435	EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters	24.22		6.77	
26 27 16 00-0436	EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters	36.32		6.77	
26 27 23	Indoor Service Poles (26 27)				

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0001	Communication And Power Poles ^(26 27 23) Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002	Steel Communication And Power Poles ^(26 27 23 00-0001)		
26 27 23 00-0003	2-1/4" Width, Steel Communication And Power Poles ^(26 27 23 00-0002)		
26 27 23 00-0004	2-1/4" Width, Steel Communication And Power Poles ^(26 27 23 00-0003)		
26 27 23 00-0005	EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	364.00	60.04
26 27 23 00-0006	EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	395.69	60.04
26 27 23 00-0007	EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	432.34	60.04
26 27 23 00-0008	Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles ^(26 27 23 00-0003) Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009	EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	74.52	12.38
26 27 23 00-0010	EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	64.51	12.38
26 27 23 00-0011	EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	73.13	12.38
26 27 23 00-0012	EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices	54.02	12.38
26 27 23 00-0013	EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	44.38	12.38
26 27 23 00-0014	2-3/4" Width, Steel Communication And Power Poles ^(26 27 23 00-0002)		
26 27 23 00-0015	2-3/4" Width, Steel Communication And Power Poles ^(26 27 23 00-0014)		
26 27 23 00-0016	EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	472.66	60.04
26 27 23 00-0017	EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole	540.77	60.04
26 27 23 00-0018	EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	577.52	60.04
26 27 23 00-0019	Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles ^(26 27 23 00-0014) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020	EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	49.77	12.38
26 27 23 00-0021	EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	44.68	12.38
26 27 23 00-0022	EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices	48.32	12.38
26 27 23 00-0023	3" Width, Steel Communication And Power Poles ^(26 27 23 00-0002)		
26 27 23 00-0024	3" Width, Steel Communication And Power Poles ^(26 27 23 00-0023)		
26 27 23 00-0025	EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	616.98	60.04
26 27 23 00-0026	EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	698.95	60.04
26 27 23 00-0027	EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	752.99	60.04
26 27 23 00-0028	Additional Cover Plates For 3" Width, Steel Communication And Power Poles ^(26 27 23 00-0023) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029	EA Add-On 3" Width Steel Cover Plate For One Single Receptacle	49.77	12.38
26 27 23 00-0030	EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	44.68	12.38
26 27 23 00-0031	EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	48.32	12.38
26 27 23 00-0032	Aluminum Communication And Power Poles ^(26 27 23 00-0001)		
26 27 23 00-0033	2-1/8" Width, Aluminum Communication And Power Poles ^(26 27 23 00-0032)		
26 27 23 00-0034	2-1/8" Width, Aluminum Communication And Power Poles ^(26 27 23 00-0033)		
26 27 23 00-0035	EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	493.99	60.04
26 27 23 00-0036	EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	551.30	60.04
26 27 23 00-0037	EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	615.55	60.04
26 27 23 00-0038	Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles ^(26 27 23 00-0033)		
26 27 23 00-0039	EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	76.47	12.38
26 27 23 00-0040	EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles.....	78.09	12.38
26 27 23 00-0041	EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	83.48	12.38
26 27 23 00-0042	EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	57.04	12.38
26 27 23 00-0043	EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting	44.38	12.38
26 27 23 00-0044	2-1/4" Width, Aluminum Communication And Power Poles ^(26 27 23 00-0032)		
26 27 23 00-0045	EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	476.09	60.04
26 27 23 00-0046	EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	534.87	60.04
26 27 23 00-0047	EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	604.12	60.04



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	999.66	60.04
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	1,143.82	60.04
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	1,305.29	60.04
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole (26 27 23 00-0032)		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	541.79	60.04
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole.....	512.74	60.04
26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole.....	657.73	60.04
26 27 26 Wiring Devices (26 27)		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles (26 27 26)		
26 27 26 00-0002 General Use Receptacles (26 27 26 00-0001)		
26 27 26 00-0003 Receptacle Assemblies (26 27 26 00-0002)		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	107.83	48.09
26 27 26 00-0005 EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	115.95	51.48
26 27 26 00-0006 EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	139.97	61.64
26 27 26 00-0007 EA 20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	156.20	68.41
26 27 26 00-0008 EA 15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	125.96	48.09
26 27 26 00-0009 EA 20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	135.04	51.48
26 27 26 00-0010 Receptacle Components (26 27 26 00-0002)		
26 27 26 00-0011 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle.....	32.05	13.55
26 27 26 00-0012 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle.....	30.99	13.55
26 27 26 00-0013 EA 15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle.....	37.22	13.55
26 27 26 00-0014 EA 15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle.....	40.83	13.55
26 27 26 00-0015 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle.....	52.19	16.93
26 27 26 00-0016 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle.....	64.03	16.93
26 27 26 00-0017 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle.....	33.44	13.55
26 27 26 00-0018 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle.....	32.32	13.55
26 27 26 00-0019 EA 20 Amperes, 120/277 Volt, Single Receptacle.....	48.58	13.55
26 27 26 00-0020 EA 20 Amperes, 120/277 Volt, Duplex Receptacle.....	39.69	13.55
26 27 26 00-0021 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle.....	52.19	16.93
26 27 26 00-0022 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle.....	64.03	16.93
26 27 26 00-0023 EA 20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle.....	102.02	16.93
26 27 26 00-0024 EA 20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle.....	102.02	16.93
26 27 26 00-0025 EA 25 Amperes, 120/277 Volt, Duplex Receptacle.....	84.41	20.32
26 27 26 00-0026 Specialty Receptacles (26 27 26 00-0001)		
26 27 26 00-0027 Specialty Receptacles (26 27 26 00-0026)		
26 27 26 00-0028 EA 30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle.....	74.30	23.71
26 27 26 00-0029 EA 30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle.....	74.30	23.71
26 27 26 00-0030 EA 30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles.....	91.60	23.71
26 27 26 00-0031 EA 30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle.....	115.57	23.71
26 27 26 00-0032 EA 30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle.....	122.34	27.10
26 27 26 00-0033 EA 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle.....	112.49	27.10
26 27 26 00-0034 EA 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle.....	109.72	27.10
26 27 26 00-0035 EA 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle.....	95.41	27.10
26 27 26 00-0036 EA 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle.....	110.77	27.10
26 27 26 00-0037 EA 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle.....	137.48	27.10
26 27 26 00-0038 EA 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle.....	144.25	30.48
26 27 26 00-0039 EA 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle.....	158.60	33.87
26 27 26 00-0040 EA 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle.....	172.14	40.64
26 27 26 00-0041 EA 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete.....	1,647.96	318.37
26 27 26 00-0042 EA 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete.....	4,128.68	389.50
26 27 26 00-0043 EA 30 Amperes, 230 Volt, Dryer Receptacle.....	88.95	27.10
26 27 26 00-0044 EA 60 Amperes, 230 Volt, Range Receptacle.....	129.97	40.64
26 27 26 00-0045 EA 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle.....	85.61	16.93
26 27 26 00-0046 EA Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete.....	1,710.26	412.63
26 27 26 00-0047 Isolated Ground Receptacles (26 27 26 00-0026)		
26 27 26 00-0048 EA 15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex.....	101.00	13.55
Note: 2 Pole, 3 wire.		
26 27 26 00-0049 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	72.13	16.93
26 27 26 00-0050 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex.....	71.86	16.93
26 27 26 00-0051 EA 30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	99.02	27.10
26 27 26 00-0052 EA Locking 15 Amperes, 250 Volt Isolated Ground Receptacles.....	81.25	16.93
26 27 26 00-0053 EA Locking 15 Amperes, 277 Volt Isolated Ground Receptacles.....	74.15	16.93

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0054 EA Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles	103.11	20.32
26 27 26 00-0055 EA Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles	81.02	20.32
26 27 26 00-0056 EA Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles	105.73	20.32
26 27 26 00-0057 EA Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles	129.81	20.32
26 27 26 00-0058 EA Locking 30 Amperes, 277 Volt Isolated Ground Receptacles	126.38	27.10
26 27 26 00-0059 Explosion Proof Receptacle Assembly (26 27 26 00-0026)		
26 27 26 00-0060 EA 1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	1,014.27	33.87
26 27 26 00-0061 EA 3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	934.45	37.26
26 27 26 00-0062 EA 3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,553.54	67.74
26 27 26 00-0063 EA 3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,957.13	67.74
26 27 26 00-0064 EA 1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,476.32	101.61
26 27 26 00-0065 EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,359.47	101.61
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	45.73	16.93
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	64.96	20.32
26 27 26 00-0069 EA 15 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	48.88	23.08
26 27 26 00-0070 EA 20 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	83.55	27.10
26 27 26 00-0071 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)		
26 27 26 00-0072 EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	85.26	16.93
26 27 26 00-0073 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	94.05	16.93
26 27 26 00-0074 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0075 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle	61.62	16.93
26 27 26 00-0076 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle	76.02	16.93
26 27 26 00-0077 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle	68.22	20.32
26 27 26 00-0078 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle	67.59	20.32
26 27 26 00-0079 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle	80.26	20.32
26 27 26 00-0080 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle	96.63	20.32
26 27 26 00-0081 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	94.82	20.32
26 27 26 00-0082 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	82.85	20.32
26 27 26 00-0083 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle	94.24	27.10
26 27 26 00-0084 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking, Receptacle	95.76	27.10
26 27 26 00-0085 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle	136.13	27.10
26 27 26 00-0086 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)		
26 27 26 00-0087 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W)	306.83	67.74
26 27 26 00-0088 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W)	306.12	67.74
26 27 26 00-0089 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W)	319.48	67.74
26 27 26 00-0090 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W)	389.70	74.51
26 27 26 00-0091 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W)	390.81	74.51
26 27 26 00-0092 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W)	388.24	74.51
26 27 26 00-0093 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W)	465.28	83.32
26 27 26 00-0094 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W)	443.55	83.32
26 27 26 00-0095 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W)	477.57	83.32
26 27 26 00-0096 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W)	482.46	91.45
26 27 26 00-0097 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W)	482.03	91.45
26 27 26 00-0098 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W)	485.11	91.45
26 27 26 00-0099 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W)	678.55	108.38
26 27 26 00-0100 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W)	652.23	108.38
26 27 26 00-0101 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W)	669.36	108.38
26 27 26 00-0102 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W)	745.42	120.58
26 27 26 00-0103 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W)	745.93	120.58
26 27 26 00-0104 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W)	746.44	120.58
26 27 26 00-0105 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W)	829.69	135.48
26 27 26 00-0106 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W)	863.43	135.48
26 27 26 00-0107 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W)	928.96	149.02
26 27 26 00-0108 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W)	926.42	149.02
26 27 26 00-0109 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W)	931.19	149.02
26 27 26 00-0110 Corrosion Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0111 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles	90.30	13.55
26 27 26 00-0112 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles	183.22	16.93
26 27 26 00-0113 Tamper Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0114 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	33.28	13.55
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0115 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	36.46	13.55
Note: Pass & Seymour TR20.		
26 27 26 00-0116 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	45.60	13.55
Note: Pass & Seymour TR5251.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0117 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle Note: Pass & Seymour TR5351.	49.88	13.55
26 27 26 00-0118 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle..... Note: Pass & Seymour S1595-TR*CC8.	75.61	13.55
26 27 26 00-0119 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 1595-TRS.	81.74	13.55
26 27 26 00-0120 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 2095-TRS.	87.60	13.55
26 27 26 00-0121 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		
26 27 26 00-0122 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	77.85	13.55
26 27 26 00-0123 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	84.19	13.55
26 27 26 00-0124 Television Receptacle (26 27 26 00-0001)		
26 27 26 00-0125 EA TV Receptacle With Cover (Type F), Complete.....	89.48	31.43
26 27 26 00-0126 Switches (26 27 26)		
26 27 26 00-0127 Switches (26 27 26 00-0126)		
26 27 26 00-0128 Switch Assemblies (26 27 26 00-0127) Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0129 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	112.30	47.42
26 27 26 00-0130 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	121.10	51.48
26 27 26 00-0131 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	152.29	61.98
26 27 26 00-0132 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	167.16	68.75
26 27 26 00-0133 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	259.12	106.35
26 27 26 00-0134 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	281.41	116.52
26 27 26 00-0135 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	299.22	120.24
26 27 26 00-0136 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	328.93	133.79
26 27 26 00-0137 Switch Components (26 27 26 00-0127)		
26 27 26 00-0138 EA 15 Amperes, 120/277 Volt, SPST Switch	36.82	13.55
26 27 26 00-0139 EA 15 Amperes, 120/277 Volt, 3-Way Switch	46.64	16.93
26 27 26 00-0140 EA 15 Amperes, 120/277 Volt, 4-Way Switch	91.24	27.10
26 27 26 00-0141 EA 15 Amperes, 120/277 Volt, DPST Switch	42.47	13.55
26 27 26 00-0142 EA 15 Amperes, 120/277 Volt, Thermal Switch.....	82.18	16.93
26 27 26 00-0143 EA 20 Amperes, 120/277 Volt, SPST Switch	44.24	16.93
26 27 26 00-0144 EA 20 Amperes, 120/277 Volt, 3-Way Switch	54.83	20.32
26 27 26 00-0145 EA 20 Amperes, 120/277 Volt, 4-Way Switch	124.86	27.10
26 27 26 00-0146 EA 20 Amperes, 120/277 Volt, DPST Switch	53.30	16.93
26 27 26 00-0147 EA 20 Amperes, 120/277 Volt, DPDT Switch.....	57.32	16.93
26 27 26 00-0148 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch	92.88	16.97
26 27 26 00-0149 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch	117.10	16.97
26 27 26 00-0150 EA Momentary Contact Switch With Separate Neon Pilot..... Note: Neon Pilot is 125 V, 1 / 125W.	89.34	20.36
26 27 26 00-0151 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off	67.55	23.71
26 27 26 00-0152 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, double throw BAT handle.	83.51	27.10
26 27 26 00-0153 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	124.95	27.10
26 27 26 00-0154 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch	93.28	27.16
26 27 26 00-0155 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	115.05	27.16
26 27 26 00-0156 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch.....	120.24	33.94
26 27 26 00-0157 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch.....	167.98	37.34
26 27 26 00-0158 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	80.19	22.19
26 27 26 00-0159 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot	113.38	22.19
26 27 26 00-0160 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch	99.07	22.19
26 27 26 00-0161 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch	94.15	22.19
26 27 26 00-0162 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch.....	104.45	11.00
26 27 26 00-0163 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	111.12	11.00
26 27 26 00-0164 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	118.27	42.36
26 27 26 00-0165 EA Three Position, Center Off, Key Operated, Momentary Contact Switch	142.49	42.36
26 27 26 00-0166 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ)	170.05	13.58
26 27 26 00-0167 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	93.70	13.58
26 27 26 00-0168 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	287.55	13.55
26 27 26 00-0169 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	53.24	13.55
26 27 26 00-0170 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	99.85	13.58
26 27 26 00-0171 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000)	114.58	13.58
26 27 26 00-0172 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000)	146.71	13.58
26 27 26 00-0173 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	175.11	13.58

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0174		Specialty Switches (26 27 26 00-0126)		
26 27 26 00-0175		Dimmers With SPST Switch (26 27 26 00-0174)		
26 27 26 00-0176	EA	600 Watt Dimmers With SPST Switch	81.97	30.48
26 27 26 00-0177	EA	1,000 Watt Dimmers With SPST Switch	147.52	30.48
26 27 26 00-0178	EA	1,500 Watt Dimmers With SPST Switch	267.40	49.05
26 27 26 00-0179	EA	2,000 Watt Dimmers With SPST Switch	351.05	49.05
26 27 26 00-0180	EA	600 Watt Fluorescent Dimmer Switch	192.86	36.18
26 27 26 00-0181	EA	1,000 Watt Fluorescent Dimmer Switch	264.83	36.18
26 27 26 00-0182	EA	1,500 Watt Fluorescent Dimmer Switch	482.56	54.60
26 27 26 00-0183	EA	Remote Speed Switch For Paddle Fan	136.55	45.11
26 27 26 00-0184	EA	600 Watt Combination Remote Speed Switch/Incandescent Dimmer	227.30	67.33
26 27 26 00-0185		Time Switches (26 27 26 00-0174)		
26 27 26 00-0186	EA	40 Amperes, 125 Volt, SPST, Standard Time Switch	157.00	40.64
26 27 26 00-0187	EA	40 Amperes, 277 Volt, SPST, Standard Time Switch	160.79	40.64
26 27 26 00-0188	EA	40 Amperes, 125 Volt, DPST, Standard Time Switch	157.00	40.64
26 27 26 00-0189	EA	40 Amperes, 277 Volt, DPST, Standard Time Switch	160.79	40.64
26 27 26 00-0190	EA	40 Amperes, 125 Volt, SPST, 7-Day Time Switch	182.24	40.64
26 27 26 00-0191	EA	40 Amperes, 277 Volt, SPST, 7-Day Time Switch	182.24	40.64
26 27 26 00-0192	EA	40 Amperes, 125 Volt, DPDT, 7-Day Time Switch	331.16	40.64
26 27 26 00-0193	EA	40 Amperes, 277 Volt, DPDT, 7-Day Time Switch	331.16	40.64
26 27 26 00-0194	EA	20 Amperes, 125 Volt, SPST, Programmable Time Switch	283.38	40.64
26 27 26 00-0195	EA	20 Amperes, 277 Volt, SPST, Programmable Time Switch	312.56	40.64
26 27 26 00-0196	EA	20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch	312.56	40.64
26 27 26 00-0197	EA	40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch	381.51	40.64
26 27 26 00-0198	EA	40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch	393.12	40.64
26 27 26 00-0199	EA	40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch	157.00	40.64
26 27 26 00-0200	EA	40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch	160.79	40.64
26 27 26 00-0201	EA	40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	157.00	40.64
26 27 26 00-0202	EA	40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	160.79	40.64
26 27 26 00-0203	EA	40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	182.24	40.64
26 27 26 00-0204	EA	40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	182.24	40.64
26 27 26 00-0205	EA	40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch	331.16	40.64
26 27 26 00-0206	EA	40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch	331.16	40.64
26 27 26 00-0207	EA	40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch	381.51	40.64
26 27 26 00-0208	EA	40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch	393.12	40.64
26 27 26 00-0209		Low Voltage Switching (26 27 26 00-0174)		
26 27 26 00-0210	EA	36 Pin Male Or Female Connector	271.90	13.55
26 27 26 00-0211		Other Switches (26 27 26 00-0174)		
26 27 26 00-0212	EA	Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	45.33	20.32
26 27 26 00-0213	EA	SPST Locking Switch For Concealed Devices	140.92	54.19
26 27 26 00-0214	EA	3-Way Locking Switch For Concealed Devices	142.96	54.19
26 27 26 00-0215	EA	Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	159.01	50.67
26 27 26 00-0216	EA	15 Amperes Momentary Contact Switch	150.74	50.67
26 27 26 00-0217	EA	20 Amperes Momentary Contact Switch	159.45	50.67
26 27 26 00-0218	EA	2-1/4" Handy Box Cover Units Fuseholder Switch	146.48	61.09
26 27 26 00-0219	EA	2-3/4" Handy Box Cover Units Fuseholder Switch	148.91	61.09
26 27 26 00-0220	EA	4" Square Box Cover Units With 2 Fuseholders And 2 Switches	183.35	74.67
26 27 26 00-0221	EA	4" Square Box Cover Units With 1 Fuseholder And 1 Switch	166.73	67.89
26 27 26 00-0222	EA	4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	167.34	67.89
26 27 26 00-0223		Hospital Grade Switches (26 27 26 00-0174)		
26 27 26 00-0224	EA	15 Amperes, 120/277 Volt, SPST Hospital Grade Switch	36.82	13.55
26 27 26 00-0225	EA	20 Amperes, 120/277 Volt, SPST Hospital Grade Switch	44.24	16.93
26 27 26 00-0226		Plates And Covers (26 27 26)		
26 27 26 00-0227		Wall Plates (26 27 26 00-0226)		
26 27 26 00-0228		Nylon Wall Plates (26 27 26 00-0227)		
26 27 26 00-0229	EA	1 Gang Nylon Switch Wall Plates	2.15	0.68
26 27 26 00-0230	EA	2 Gang Nylon Switch Wall Plates	3.63	1.02
26 27 26 00-0231	EA	3 Gang Nylon Switch Wall Plates	5.15	1.36
26 27 26 00-0232	EA	4 Gang Nylon Switch Wall Plate	7.43	1.70
26 27 26 00-0233	EA	1 Gang Duplex Nylon Wall Plate	2.17	0.68
26 27 26 00-0234	EA	2 Gang Duplex Nylon Wall Plate	3.72	1.02
26 27 26 00-0235		Plastic Wall Plates (26 27 26 00-0227)		
26 27 26 00-0236	EA	1 Gang Plastic Switch Wall Plates	1.99	0.68
26 27 26 00-0237	EA	2 Gang Plastic Switch Wall Plates	3.31	1.02
26 27 26 00-0238	EA	3 Gang Plastic Switch Wall Plates	4.64	1.36



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		Low-Voltage Electrical Distribution	26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0239 EA 4 Gang Plastic Switch Wall Plates	7.43	1.70
26 27 26 00-0240 EA 1 Gang Duplex Plastic Wall Plate	1.99	0.68
26 27 26 00-0241 EA 2 Gang Duplex Plastic Wall Plate	3.32	1.02
26 27 26 00-0242 Thermoplastic Wall Plates (Hospital Grade) (26 27 26 00-0227)		
26 27 26 00-0243 EA 1 Gang Thermoplastic Hospital Grade Switch Wall Plate	9.69	0.68
26 27 26 00-0244 EA 2 Gang Thermoplastic Hospital Grade Switch Wall Plate	11.73	1.02
26 27 26 00-0245 EA 3 Gang Thermoplastic Hospital Grade Switch Wall Plate	18.38	1.36
26 27 26 00-0246 EA 4 Gang Thermoplastic Hospital Grade Switch Wall Plate	26.90	1.70
26 27 26 00-0247 EA 1 Gang Duplex Thermoplastic Hospital Grade Wall Plate	14.30	0.68
26 27 26 00-0248 EA 2 Gang Duplex Thermoplastic Hospital Grade Wall Plate	22.49	1.02
26 27 26 00-0249 Brass Wall Plates (26 27 26 00-0227)		
26 27 26 00-0250 EA 1 Gang, 0.04" Brass Switch Wall Plates	21.05	3.06
26 27 26 00-0251 EA 2 Gang, 0.04" Brass Switch Wall Plates	39.48	3.53
26 27 26 00-0252 EA 3 Gang, 0.04" Brass Switch Wall Plates	57.78	3.94
26 27 26 00-0253 EA 4 Gang, 0.04" Brass Switch Wall Plates	89.92	4.27
26 27 26 00-0254 EA 5 Gang, 0.04" Brass Switch Wall Plates	109.55	4.54
26 27 26 00-0255 EA 6 Gang, 0.04" Brass Switch Wall Plates	126.80	4.75
26 27 26 00-0256 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate	21.05	3.06
26 27 26 00-0257 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate	46.29	3.53
26 27 26 00-0258 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate	66.74	3.94
26 27 26 00-0259 Stainless Steel Wall Plates (26 27 26 00-0227)		
26 27 26 00-0260 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	11.23	3.06
26 27 26 00-0261 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	18.03	3.53
26 27 26 00-0262 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	25.19	3.94
26 27 26 00-0263 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	37.00	4.27
26 27 26 00-0264 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	43.59	4.54
26 27 26 00-0265 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	52.74	4.75
26 27 26 00-0266 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	12.31	3.06
26 27 26 00-0267 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	20.57	3.53
26 27 26 00-0268 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	33.62	3.94
26 27 26 00-0269 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	40.65	4.27
26 27 26 00-0270 Chrome Wall Plates (26 27 26 00-0227)		
26 27 26 00-0271 EA 1 Gang, 0.040" Chrome Switch Wall Plate	42.19	3.06
26 27 26 00-0272 EA 2 Gang 0.040" Chrome Switch Wall Plate	79.09	3.53
26 27 26 00-0273 EA 3 Gang 0.040" Chrome Switch Wall Plate	115.95	3.94
26 27 26 00-0274 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate	42.16	3.06
26 27 26 00-0275 Ceramic Wall Plates (26 27 26 00-0227)		
26 27 26 00-0276 EA 1 Gang, Ceramic Switch Wall Plate	22.20	3.73
26 27 26 00-0277 EA 1 Gang, Ceramic Duplex Receptacle Wall Plate	22.20	3.73
26 27 26 00-0278 EA 2 Gang, Ceramic Switch Wall Plate	25.83	3.53
26 27 26 00-0279 EA 2 Gang, Ceramic Combination Switch/Receptacle Wall Plate	25.83	3.53
26 27 26 00-0280 EA 3 Gang, Ceramic Switch Wall Plate	33.47	3.94
26 27 26 00-0281 Weatherproof Covers (26 27 26 00-0226)		
26 27 26 00-0282 Stamped Metallic Weatherproof Covers (26 27 26 00-0281)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0283 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	15.76	0.68
26 27 26 00-0284 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC)	17.09	0.68
26 27 26 00-0285 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC)	17.09	0.68
26 27 26 00-0286 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	17.09	0.68
26 27 26 00-0287 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	20.90	1.02
26 27 26 00-0288 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC)	23.78	1.02
26 27 26 00-0289 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC)	24.07	1.02
26 27 26 00-0290 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC)	24.07	1.02
26 27 26 00-0291 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC)	32.84	1.02
26 27 26 00-0292 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	30.97	1.36
26 27 26 00-0293 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT)	33.91	1.36
26 27 26 00-0294 Cast Metallic Weatherproof Covers (26 27 26 00-0281)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0295 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC)	19.34	0.68
26 27 26 00-0296 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA)	62.27	0.68
26 27 26 00-0297 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR)	69.86	0.68
26 27 26 00-0298 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG)	19.20	0.68
26 27 26 00-0299 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	52.75	0.68
26 27 26 00-0300 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	87.90	0.68
26 27 26 00-0301 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	111.97	0.68

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0302	EA	Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	24.07	1.02
26 27 26 00-0303	EA	Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	176.90	1.02
26 27 26 00-0304	EA	Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC).....	40.39	1.36
26 27 26 00-0305	EA	Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	168.86	1.36
26 27 26 00-0306		Die Cast Aluminum Weatherproof Covers (26 27 26 00-0281) Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0307	EA	Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	6.50	0.68
26 27 26 00-0308	EA	Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	8.38	0.68
26 27 26 00-0309	EA	Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	11.22	1.02
26 27 26 00-0310	EA	Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	12.20	1.02
26 27 26 00-0311	EA	Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042)	12.20	1.02
26 27 26 00-0312	EA	Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043)	13.61	1.02
26 27 26 00-0313		Heavy-Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0281) Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0314	EA	Duplex Receptacle, Single Gang, Heavy-Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	67.70	0.68
26 27 26 00-0315		Polycarbonate Weatherproof Covers (26 27 26 00-0281) Note: Includes neoprene gasket.		
26 27 26 00-0316	EA	Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	13.52	0.68
26 27 26 00-0317	EA	Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	13.52	0.68
26 27 26 00-0318	EA	Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	13.52	0.68
26 27 26 00-0319	EA	Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	16.68	1.02
26 27 26 00-0320	EA	Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	16.68	1.02
26 27 26 00-0321		High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0281) Note: Includes neoprene gasket.		
26 27 26 00-0322	EA	Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	97.36	0.68
26 27 26 00-0323		Non-Metallic (PVC) Weatherproof Covers (26 27 26 00-0281) Note: Includes neoprene gasket.		
26 27 26 00-0324	EA	Blank Cover, Single Gang, Non-Metallic (PVC) Weatherproof Cover	12.98	0.68
26 27 26 00-0325	EA	Blank Cover, Two Gang, Non-Metallic (PVC) Weatherproof Cover	14.02	1.01
26 27 26 00-0326	EA	Toggle Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	13.02	0.68
26 27 26 00-0327	EA	Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	28.53	0.68
26 27 26 00-0328	EA	Duplex Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	33.05	0.68
26 27 26 00-0329	EA	20 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	26.82	0.68
26 27 26 00-0330	EA	30 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	20.02	0.68
26 27 26 00-0331	EA	50 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	23.41	0.68
26 27 26 00-0332	EA	Plunger Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	20.94	0.68
26 27 26 00-0333	EA	Double Duplex Receptacle, Two Gang, Non-Metallic (PVC) Weatherproof Cover	30.18	1.01
26 27 26 00-0334		Removal And Reinstallation Of Wiring Devices (26 27 26) Note: Includes storage and cleaning.		
26 27 26 00-0335	EA	Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device.....	89.13	
26 27 26 00-0336	EA	Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate.....	11.29	
26 27 26 00-0337		In Line Midget Fuseholders (26 27 26) See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0338	EA	Single Pole Water Resistant In Line Midget Fuseholder	97.91	
26 27 26 00-0339	EA	Double Pole Water Resistant In Line Midget Fuseholder	225.77	
26 27 26 00-0340		Relay Systems (26 27 26)		
26 27 26 00-0341	EA	10 Amperes, 24 Volt Coil, 2 Position Relay	102.27	30.48
26 27 26 00-0342	EA	20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay	436.58	101.61
26 27 26 00-0343	EA	20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay	738.05	135.48
26 27 26 00-0344		Limit Switches (26 27 26)		
26 27 26 00-0345		Heavy-Duty Precision Oiltight (26 27 26 00-0344)		
26 27 26 00-0346		Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0345)		
26 27 26 00-0347	EA	Limit Switch, Heavy-Duty, Lever Arm Weatherproof, 10 Amperes Rated	461.14	85.35

26 27 33 Power Distribution Units (26 27)

Note: Includes wiring connections and testing.



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 33 00-0001 Liebert Precision Power Center (26 27 33)		
Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	22,546.12	416.60
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	27,223.79	451.55
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	31,025.87	501.27
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	35,698.13	541.91
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	38,953.07	677.39
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	43,700.01	812.86
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	50,421.66	948.34
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	53,018.37	1,083.83
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	56,010.01	1,219.30
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA	1,999.91	135.48
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA	2,989.18	169.34
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA	6,743.03	203.21
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit	2,167.64	
Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,625.73	
26 27 73 Door Chimes (26 27)		
26 27 73 00-0001 Door Bell Chime And Door Button With Built-In Viewer (26 27 73)		
Note: Non-electric chime, mounted on door		
26 27 73 00-0002 EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV)	96.29	21.48
26 27 73 00-0003 Wireless Door Bell System (26 27 73)		
26 27 73 00-0004 EA Wireless Doorbell Chime And Push Button (Broan LA542WH)	152.66	
Note: Includes 2 push buttons		
26 27 73 00-0005 EA Wireless Doorbell Chime And Push Button (STI-3350G)	143.89	
Note: Includes 2 push buttons		
26 27 73 00-0006 EA Wireless Doorbell Chime And Push Button (GE 19300)	108.06	
Note: Includes 2 push buttons		
26 27 73 00-0007 Door Bell Buzzer System, Wired (26 27 73)		
26 27 73 00-0008 EA Door Bell, Push-Button And Transformer, Complete	769.05	282.20
26 27 73 00-0009 EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete	327.54	67.74
26 27 73 00-0010 EA Removal And Replacement Of Bell/Buzzer, Complete	130.84	33.87
Note: Includes removal of existing.		
26 28 Low-Voltage Circuit Protective Devices (26 20)		
26 28 13 Fuses (26 28)		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)		
26 28 13 00-0002 EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	33.03	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0003 EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	32.12	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0004 EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	30.89	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0005 EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	30.72	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0006 EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	31.87	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0007 EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	29.62	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0008 EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	29.09	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0009 EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	24.71	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0010 EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	24.05	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0011 EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	25.31	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0012 EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	24.43	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)		
26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0015 EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	54.56	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0016 EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	50.60	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	
26 28 13 00-0017 EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	53.36	9.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	6.50	



MINOR		CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0018	EA	4	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	53.00	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0019	EA	5	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	50.24	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0020	EA	10	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	48.59	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0021	EA	15	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	44.20	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0022	EA	20	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	43.87	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0023	EA	25	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	44.23	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0024	EA	30	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	43.78	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0025	EA	35	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.43	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0026	EA	40	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.11	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0027	EA	45	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.10	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0028	EA	50	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.29	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0029	EA	60	Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	60.09	9.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0030			250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0031	EA	70	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	115.06	12.20
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0032	EA	80	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	114.40	12.20
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0033	EA	90	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	127.79	12.20
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0034	EA	100	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	113.34	12.20
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0035	EA	110	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	333.84	12.20
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0036	EA	125	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	242.55	12.20
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0037	EA	150	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	221.71	13.41
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 28 13 00-0038	EA	200	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	233.87	13.41
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 28 13 00-0039	EA	250	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	443.94	13.41
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 28 13 00-0040	EA	300	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	476.64	16.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.97	
26 28 13 00-0041	EA	350	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	513.01	16.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.97	
26 28 13 00-0042	EA	400	Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	393.67	16.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.97	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 28 13 00-0058	EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.88 6.50		9.76	
26 28 13 00-0059	EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.72 6.50		9.76	
26 28 13 00-0060	EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.74 6.50		9.76	
26 28 13 00-0061	EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.64 6.50		9.76	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)					
26 28 13 00-0063	EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	199.50 8.13		12.20	
26 28 13 00-0064	EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	203.92 8.94		13.41	
26 28 13 00-0065	EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.78 8.94		13.41	
26 28 13 00-0066	EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	203.68 8.94		13.41	
26 28 13 00-0067	EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	378.96 8.94		13.41	
26 28 13 00-0068	EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	384.79 8.94		13.41	
26 28 13 00-0069	EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	378.26 10.97		16.53	
26 28 13 00-0070	EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	377.29 10.97		16.53	
26 28 13 00-0071	EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	726.63 10.97		16.53	
26 28 13 00-0072	EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	729.34 13.41		20.19	
26 28 13 00-0073	EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	823.70 13.41		20.19	
26 28 13 00-0074	EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	745.38 13.41		20.19	
26 28 13 00-0075	EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,346.60 13.41		20.19	
26 28 13 00-0076	EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,196.49 16.26		24.38	
26 28 13 00-0077	EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,042.06 16.26		24.38	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses (26 28 13) Note: 250/300 Volt DC.					
26 28 13 00-0079	EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.58 6.50		9.76	
26 28 13 00-0080	EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.63 6.50		9.76	
26 28 13 00-0081	EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.33 6.50		9.76	
26 28 13 00-0082	EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.00 6.50		9.76	
26 28 13 00-0083	EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.95 6.50		9.76	
26 28 13 00-0084	EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.02 6.50		9.76	
26 28 13 00-0085	EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.33 6.50		9.76	
26 28 13 00-0086	EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.03 6.50		9.76	
26 28 13 00-0087	EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.73 6.50		9.76	
26 28 13 00-0088	EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.76 6.50		9.76	
26 28 13 00-0089	EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.28 6.50		9.76	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse (26 28 13)					
26 28 13 00-0091	EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.44 4.07		6.77	
26 28 13 00-0092	EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.13 4.07		6.77	
26 28 13 00-0093	EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.19 4.88		8.12	
26 28 13 00-0094	EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.72 6.10		10.16	
26 28 13 00-0095	EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.37 6.10		10.16	
26 28 13 00-0096	EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.90 6.10		10.16	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0097 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 91.30		13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0098 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 74.80		13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0099 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 136.36		13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0100 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 115.15		13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0101 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 133.11		13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 28 13 00-0102 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 115.49		16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 28 13 00-0103 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 113.21		16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 28 13 00-0104 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 179.04		20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.20	
26 28 13 00-0105 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 191.63		20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.20	
26 28 13 00-0106 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 188.42		20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.20	
26 28 13 00-0107 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 161.81		23.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 28 13 00-0108 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 396.57		23.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 28 13 00-0109 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 335.05		23.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 28 13 00-0110 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 316.98		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0111 EA 175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 321.88		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0112 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 264.65		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0113 EA 225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 692.63		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0114 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 639.22		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0115 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 587.82		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0116 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 642.52		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0117 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 525.93		30.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 28 13 00-0118 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 1,136.25		30.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 28 13 00-0119 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 959.96		33.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 13 00-0120 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse 709.21		33.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses (26 28 13)		
26 28 13 00-0122 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,197.05		16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 28 13 00-0123 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,201.41		16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 28 13 00-0124 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,205.46		16.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 28 13 00-0125 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,196.64		20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 28 13 00-0126 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,022.26		20.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 28 13 00-0127 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,162.87		23.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 28 13 00-0128 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 1,989.75		23.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 28 13 00-0129 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,226.82		23.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 28 13 00-0130 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,183.14		23.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 28 13 00-0131 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 1,938.81		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0132 EA 601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 1,991.35		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0133 EA 650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,651.75		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0134 EA 700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 1,929.29		27.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 13 00-0135 EA 750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,967.81		30.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 28 13 00-0136 EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 1,703.34		30.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 28 13 00-0137 EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse 2,493.96		30.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0138	EA		1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,674.44	30.48
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 28 13 00-0139	EA		1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,724.70	30.48
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 28 13 00-0140	EA		1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,851.53	30.48
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 28 13 00-0141	EA		1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,797.22	30.48
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 28 13 00-0142	EA		1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,424.57	30.48
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 28 13 00-0143	EA		1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,132.69	33.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 13 00-0144	EA		1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,537.42	33.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 13 00-0145	EA		2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,899.19	33.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 13 00-0146	EA		2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,924.76	33.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 13 00-0147	EA		2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	6,696.94	33.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 13 00-0148	EA		3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,375.49	37.26
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 28 13 00-0149	EA		3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	9,066.62	37.26
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 28 13 00-0150	EA		3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	10,523.14	37.26
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 28 13 00-0151	EA		4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	6,077.73	37.26
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 28 13 00-0152	EA		5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	9,601.43	37.26
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 28 13 00-0153	EA		6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	15,905.29	37.26
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	

26 28 16 Enclosed Switches and Circuit Breakers (26 28)**26 28 16 13 Enclosed Circuit Breakers (26 28 16)****26 28 16 13-0001 Branch Circuit Breakers (26 28 16 13)**

Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.

26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)

Note: Includes connection of electrical wire.

26 28 16 13-0003	EA		1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	74.16	24.38
			For Bolt-On, Add	18.75	
			For Installation In New Panelboard, Deduct	-13.55	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0004	EA		1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	74.16	24.38
			For Bolt-On, Add	18.75	
			For Installation In New Panelboard, Deduct	-13.55	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0005	EA		1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	113.82	30.48
			For Bolt-On, Add	26.08	
			For Installation In New Panelboard, Deduct	-16.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0006	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	193.02	30.48
			For Bolt-On, Add	35.98	
			For Installation In New Panelboard, Deduct	-16.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0007	EA		1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	283.60	30.48
			For Bolt-On, Add	47.30	
			For Installation In New Panelboard, Deduct	-16.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0008	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	335.24	30.48
			For Bolt-On, Add	53.76	
			For Installation In New Panelboard, Deduct	-16.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0009	EA		1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	143.12	30.48
			For Bolt-On, Add	29.74	
			For Installation In New Panelboard, Deduct	-16.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0010	EA		2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	127.37	36.58
			For Bolt-On, Add	30.15	
			For Installation In New Panelboard, Deduct	-20.32	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0011 EA 2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	127.37	36.58
For Bolt-On, Add	30.15	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0012 EA 2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	200.53	48.77
For Bolt-On, Add	44.03	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0013 EA 2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	358.20	60.96
For Bolt-On, Add	68.48	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0014 EA 2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	428.55	67.74
For Bolt-On, Add	79.65	
For Installation In New Panelboard, Deduct	-37.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.71	
26 28 16 13-0015 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	380.47	43.35
For Bolt-On, Add	64.63	
For Installation In New Panelboard, Deduct	-24.39	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.26	
26 28 16 13-0016 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	528.63	43.35
For Bolt-On, Add	83.15	
For Installation In New Panelboard, Deduct	-24.39	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.26	
26 28 16 13-0017 EA 3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	269.64	48.77
For Bolt-On, Add	52.67	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0018 EA 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	269.64	48.77
For Bolt-On, Add	52.67	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	357.32	60.96
For Bolt-On, Add	68.37	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	565.60	73.16
For Bolt-On, Add	99.15	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	732.10	85.35
For Bolt-On, Add	124.70	
For Installation In New Panelboard, Deduct	-47.42	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.90	
26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	121.08	24.38
For Bolt-On, Add	24.62	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	121.08	24.38
For Bolt-On, Add	24.62	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	233.78	30.48
For Bolt-On, Add	41.08	
For Installation In New Panelboard, Deduct	-16.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	386.07	30.48
For Bolt-On, Add	60.11	
For Installation In New Panelboard, Deduct	-16.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	250.92	36.58
For Bolt-On, Add	45.59	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0028	EA	2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	250.92	36.58
		For Bolt-On, Add	45.59	
		For Installation In New Panelboard, Deduct	-20.32	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0029	EA	2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	525.14	48.77
		For Bolt-On, Add	84.61	
		For Installation In New Panelboard, Deduct	-27.10	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0030	EA	2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	722.75	60.96
		For Bolt-On, Add	114.05	
		For Installation In New Panelboard, Deduct	-33.87	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0031	EA	2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,092.08	67.74
		For Bolt-On, Add	162.59	
		For Installation In New Panelboard, Deduct	-37.26	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.71	
26 28 16 13-0032	EA	3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	412.99	48.77
		For Bolt-On, Add	70.59	
		For Installation In New Panelboard, Deduct	-27.10	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0033	EA	3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	412.99	48.77
		For Bolt-On, Add	70.59	
		For Installation In New Panelboard, Deduct	-27.10	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0034	EA	3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	633.61	60.96
		For Bolt-On, Add	102.91	
		For Installation In New Panelboard, Deduct	-33.87	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0035	EA	3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	919.50	73.16
		For Bolt-On, Add	143.39	
		For Installation In New Panelboard, Deduct	-40.64	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0036	EA	3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,461.01	85.35
		For Bolt-On, Add	215.82	
		For Installation In New Panelboard, Deduct	-47.42	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.90	
26 28 16 13-0037	EA	3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,695.41	91.45
		For Bolt-On, Add	247.49	
		For Installation In New Panelboard, Deduct	-50.80	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.96	
26 28 16 13-0038	EA	3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,822.35	97.54
		For Bolt-On, Add	265.73	
		For Installation In New Panelboard, Deduct	-54.19	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.03	
26 28 16 13-0039	EA	3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	2,172.14	103.64
		For Bolt-On, Add	311.82	
		For Installation In New Panelboard, Deduct	-57.58	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.09	
26 28 16 13-0040		Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)		
		Note: Includes connection of electrical wire.		
26 28 16 13-0041	EA	15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	151.93	24.38
		For Bolt-On, Add	28.47	
		For Installation In New Panelboard, Deduct	-13.55	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0042	EA	35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	151.93	24.38
		For Bolt-On, Add	28.47	
		For Installation In New Panelboard, Deduct	-13.55	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0043	EA	70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	264.25	30.48
		For Bolt-On, Add	44.89	
		For Installation In New Panelboard, Deduct	-16.94	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0044	EA	15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	331.30	36.58
		For Bolt-On, Add	55.64	
		For Installation In New Panelboard, Deduct	-20.32	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	331.30	36.58
For Bolt-On, Add	55.64	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	602.22	48.77
For Bolt-On, Add	94.24	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	1,631.42	60.96
For Bolt-On, Add	227.64	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	545.64	48.77
For Bolt-On, Add	87.17	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	545.64	48.77
For Bolt-On, Add	87.17	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	730.15	60.96
For Bolt-On, Add	114.98	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	2,022.72	73.16
For Bolt-On, Add	281.29	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	178.11	24.38
For Bolt-On, Add	31.75	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	178.11	24.38
For Bolt-On, Add	31.75	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	207.58	30.48
For Bolt-On, Add	37.80	
For Installation In New Panelboard, Deduct	-16.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	382.57	30.48
For Bolt-On, Add	59.68	
For Installation In New Panelboard, Deduct	-16.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	399.62	36.58
For Bolt-On, Add	64.18	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	399.62	36.58
For Bolt-On, Add	64.18	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	478.44	48.77
For Bolt-On, Add	78.77	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	702.80	60.96
For Bolt-On, Add	111.56	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	925.52	67.74
For Bolt-On, Add	141.77	
For Installation In New Panelboard, Deduct	-37.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.71	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity 1,161.82		79.26
For Bolt-On, Add	176.05	
For Installation In New Panelboard, Deduct	-44.03	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.84	
26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity 1,245.18		91.45
For Bolt-On, Add	191.21	
For Installation In New Panelboard, Deduct	-50.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.96	
26 28 16 13-0064 EA 15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity 479.58		48.77
For Bolt-On, Add	78.91	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0065 EA 35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity 479.58		48.77
For Bolt-On, Add	78.91	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity 557.27		60.96
For Bolt-On, Add	93.37	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0067 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity 874.27		73.16
For Bolt-On, Add	137.73	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0068 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity 1,149.63		94.83
For Bolt-On, Add	180.45	
For Installation In New Panelboard, Deduct	-52.50	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.00	
26 28 16 13-0069 EA 250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity 1,430.22		109.74
For Bolt-On, Add	221.45	
For Installation In New Panelboard, Deduct	-60.97	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.16	
26 28 16 13-0070 EA 300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity 1,522.21		116.52
For Bolt-On, Add	235.32	
For Installation In New Panelboard, Deduct	-64.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.22	
26 28 16 13-0071 Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0072 EA 15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 416.69		36.58
For Bolt-On, Add	66.31	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0073 EA 35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 416.69		36.58
For Bolt-On, Add	66.31	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0074 EA 70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 643.45		48.77
For Bolt-On, Add	99.40	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0075 EA 110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 1,071.55		60.96
For Bolt-On, Add	157.65	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0076 EA 150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 1,696.25		75.87
For Bolt-On, Add	241.67	
For Installation In New Panelboard, Deduct	-42.34	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.80	
26 28 16 13-0077 EA 250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 1,933.03		79.26
For Bolt-On, Add	272.45	
For Installation In New Panelboard, Deduct	-44.03	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.84	
26 28 16 13-0078 EA 300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 2,105.17		91.45
For Bolt-On, Add	298.71	
For Installation In New Panelboard, Deduct	-50.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.96	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0079 EA 15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 604.30		48.77
For Bolt-On, Add	94.50	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0080 EA 35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 604.30		48.77
For Bolt-On, Add	94.50	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0081 EA 70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 761.90		60.96
For Bolt-On, Add	118.95	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0082 EA 110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 1,336.88		73.16
For Bolt-On, Add	195.56	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0083 EA 150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 1,971.81		94.83
For Bolt-On, Add	283.22	
For Installation In New Panelboard, Deduct	-52.50	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.00	
26 28 16 13-0084 EA 250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 2,331.86		109.74
For Bolt-On, Add	334.16	
For Installation In New Panelboard, Deduct	-60.97	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.16	
26 28 16 13-0085 EA 300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity 2,527.04		116.52
For Bolt-On, Add	360.93	
For Installation In New Panelboard, Deduct	-64.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.22	
26 28 16 13-0086 Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0087 EA 2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 433.65		36.58
For Bolt-On, Add	68.43	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0088 EA 2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 433.65		36.58
For Bolt-On, Add	68.43	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0089 EA 2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 800.06		48.77
For Bolt-On, Add	118.97	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0090 EA 2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 1,505.78		60.96
For Bolt-On, Add	211.93	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0091 EA 2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 2,414.03		75.87
For Bolt-On, Add	331.39	
For Installation In New Panelboard, Deduct	-42.34	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.80	
26 28 16 13-0092 EA 2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 2,758.55		79.26
For Bolt-On, Add	375.64	
For Installation In New Panelboard, Deduct	-44.03	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.84	
26 28 16 13-0093 EA 2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 2,996.02		91.45
For Bolt-On, Add	410.06	
For Installation In New Panelboard, Deduct	-50.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.96	
26 28 16 13-0094 EA 3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 721.75		48.77
For Bolt-On, Add	109.19	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0095 EA 3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity 721.75		48.77
For Bolt-On, Add	109.19	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0096	EA	3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	965.49	60.96	
		For Bolt-On, Add	144.40		
		For Installation In New Panelboard, Deduct	-33.87		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64		
26 28 16 13-0097	EA	3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,833.03	73.16	
		For Bolt-On, Add	257.58		
		For Installation In New Panelboard, Deduct	-40.64		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77		
26 28 16 13-0098	EA	3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,312.89	94.83	
		For Bolt-On, Add	325.86		
		For Installation In New Panelboard, Deduct	-52.50		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.00		
26 28 16 13-0099	EA	3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	3,749.25	109.74	
		For Bolt-On, Add	511.33		
		For Installation In New Panelboard, Deduct	-60.97		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.16		
26 28 16 13-0100	EA	3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	3,994.57	116.52	
		For Bolt-On, Add	544.37		
		For Installation In New Panelboard, Deduct	-64.35		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.22		
26 28 16 13-0101		Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On			
		16 13-0001			
		Note: Includes connection of electrical wire.			
26 28 16 13-0102	EA	1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	220.86	24.38	
		For Bolt-On, Add	37.09		
		For Installation In New Panelboard, Deduct	-13.55		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26		
26 28 16 13-0103	EA	1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	220.86	24.38	
		For Bolt-On, Add	37.09		
		For Installation In New Panelboard, Deduct	-13.55		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26		
26 28 16 13-0104	EA	1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	399.03	30.48	
		For Bolt-On, Add	61.73		
		For Installation In New Panelboard, Deduct	-16.94		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32		
26 28 16 13-0105	EA	2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	503.12	36.58	
		For Bolt-On, Add	77.12		
		For Installation In New Panelboard, Deduct	-20.32		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39		
26 28 16 13-0106	EA	2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	503.12	36.58	
		For Bolt-On, Add	77.12		
		For Installation In New Panelboard, Deduct	-20.32		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39		
26 28 16 13-0107	EA	2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	943.80	48.77	
		For Bolt-On, Add	136.94		
		For Installation In New Panelboard, Deduct	-27.10		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51		
26 28 16 13-0108	EA	2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,792.89	60.96	
		For Bolt-On, Add	247.82		
		For Installation In New Panelboard, Deduct	-33.87		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64		
26 28 16 13-0109	EA	2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	3,548.06	75.87	
		For Bolt-On, Add	473.14		
		For Installation In New Panelboard, Deduct	-42.34		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.80		
26 28 16 13-0110	EA	3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,847.09	48.77	
		For Bolt-On, Add	124.85		
		For Installation In New Panelboard, Deduct	-27.10		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51		
26 28 16 13-0111	EA	3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,847.09	48.77	
		For Bolt-On, Add	124.85		
		For Installation In New Panelboard, Deduct	-27.10		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51		
26 28 16 13-0112	EA	3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,139.63	60.96	
		For Bolt-On, Add	166.16		
		For Installation In New Panelboard, Deduct	-33.87		
		Note: Also for use with new interiors in panelboards.			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0113 EA 3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity.....	2,211.50	73.16
For Bolt-On, Add	304.89	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0114 EA 3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity.....	4,411.79	94.83
For Bolt-On, Add	588.22	
For Installation In New Panelboard, Deduct	-52.50	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.00	
26 28 16 13-0115 Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
^{16 13-0001}		
Note: Includes connection of electrical wire.		
26 28 16 13-0116 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	341.30	24.38
For Bolt-On, Add	52.15	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity.....	341.30	24.38
For Bolt-On, Add	52.15	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	527.12	30.48
For Bolt-On, Add	77.74	
For Installation In New Panelboard, Deduct	-16.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	642.46	36.58
For Bolt-On, Add	94.53	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	642.46	36.58
For Bolt-On, Add	94.53	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	1,243.77	48.77
For Bolt-On, Add	174.44	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	2,301.86	60.96
For Bolt-On, Add	311.44	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	4,677.54	67.74
For Bolt-On, Add	610.77	
For Installation In New Panelboard, Deduct	-37.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.71	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	1,126.32	48.77
For Bolt-On, Add	159.76	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	1,126.32	48.77
For Bolt-On, Add	159.76	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	1,571.04	60.96
For Bolt-On, Add	220.09	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	2,589.96	73.16
For Bolt-On, Add	352.19	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	5,886.96	94.83
For Bolt-On, Add	772.62	
For Installation In New Panelboard, Deduct	-52.50	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.00	
26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
^{16 13-0001}		
Note: Includes connection of electrical wire.		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	133.41	24.38
For Bolt-On, Add	26.16	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	394.55	36.58
For Bolt-On, Add	52.29	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	497.28	48.77
For Bolt-On, Add	81.13	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	320.66	24.38
For Bolt-On, Add	49.57	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	320.66	24.38
For Bolt-On, Add	49.57	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26	
26 28 16 13-0135 EA 70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	638.23	48.77
For Bolt-On, Add	98.75	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0136 EA 15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	757.24	36.58
For Bolt-On, Add	108.88	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0137 EA 35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	757.24	36.58
For Bolt-On, Add	108.88	
For Installation In New Panelboard, Deduct	-20.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 28 16 13-0138 EA 70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,502.46	48.77
For Bolt-On, Add	206.77	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0139 EA 110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	2,588.97	60.96
For Bolt-On, Add	347.33	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0140 EA 150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	5,802.26	75.87
For Bolt-On, Add	754.92	
For Installation In New Panelboard, Deduct	-42.34	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.80	
26 28 16 13-0141 EA 15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,290.52	48.77
For Bolt-On, Add	180.28	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0142 EA 35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,290.52	48.77
For Bolt-On, Add	180.28	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0143 EA 70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,809.41	60.96
For Bolt-On, Add	249.89	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0144 EA 110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	2,798.77	73.16
For Bolt-On, Add	378.30	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0145 EA 150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	7,215.39	94.83
For Bolt-On, Add	938.67	
For Installation In New Panelboard, Deduct	-52.50	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.00	

26 28 16 16 Enclosed Switches (26 28 16)

26 28 16 16-0001 Motor And Circuit Disconnects (26 28 16 16)
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 28 16 16-0002	NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)				
26 28 16 16-0003	Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002) Note: Includes fuses and neutral bar.				
26 28 16 16-0004	240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)				
26 28 16 16-0005	EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	522.46		135.48	
26 28 16 16-0006	EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	829.53		163.25	
26 28 16 16-0007	EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,145.83		191.03	
26 28 16 16-0008	EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,978.36		300.76	
26 28 16 16-0009	EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,236.31		467.40	
26 28 16 16-0010	EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,089.41		690.94	
26 28 16 16-0011	EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,693.30		812.86	
26 28 16 16-0012	EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,038.52		948.34	
26 28 16 16-0013	600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)				
26 28 16 16-0014	EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	804.56		150.52	
26 28 16 16-0015	EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	970.77		181.41	
26 28 16 16-0016	EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,556.77		212.02	
26 28 16 16-0017	EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,298.14		334.63	
26 28 16 16-0018	EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,050.23		519.15	
26 28 16 16-0019	EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,879.90		767.35	
26 28 16 16-0020	EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,691.83		902.69	
26 28 16 16-0021	EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,003.81		1,053.75	
26 28 16 16-0022	240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)				
26 28 16 16-0023	EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	739.85		212.70	
26 28 16 16-0024	EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,095.53		282.47	
26 28 16 16-0025	EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,486.26		313.63	
26 28 16 16-0026	EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,351.95		491.11	
26 28 16 16-0027	EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,921.25		806.09	
26 28 16 16-0028	EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,035.11		1,129.21	
26 28 16 16-0029	600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)				
26 28 16 16-0030	EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	973.91		235.06	
26 28 16 16-0031	EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,235.35		313.63	
26 28 16 16-0032	EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,838.48		352.92	
26 28 16 16-0033	EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,704.00		537.85	
26 28 16 16-0034	EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,077.27		868.42	
26 28 16 16-0035	EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,803.47		1,254.52	
26 28 16 16-0036	EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	15,684.12		1,490.25	
26 28 16 16-0037	EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	20,084.22		1,693.47	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0038		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0039	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	715.69	212.70
26 28 16 16-0040	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,064.32	282.47
26 28 16 16-0041	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,429.47	313.63
26 28 16 16-0042	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,430.05	491.11
26 28 16 16-0043	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,361.42	806.09
26 28 16 16-0044	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,697.31	1,129.21
26 28 16 16-0045	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,469.71	1,422.52
26 28 16 16-0046	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	17,862.60	1,625.73
26 28 16 16-0047		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0048	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,062.53	235.06
26 28 16 16-0049	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,344.27	313.63
26 28 16 16-0050	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,997.73	352.92
26 28 16 16-0051	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,942.40	537.85
26 28 16 16-0052	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,585.91	868.42
26 28 16 16-0053	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,701.80	1,254.52
26 28 16 16-0054	EA	800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	17,175.57	1,490.25
26 28 16 16-0055	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	21,695.29	1,693.47
26 28 16 16-0056		Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)		
26 28 16 16-0057		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0058	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	507.18	196.03
26 28 16 16-0059	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	791.42	272.72
26 28 16 16-0060	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,097.70	313.63
26 28 16 16-0061	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,718.53	501.81
26 28 16 16-0062	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,487.15	836.30
26 28 16 16-0063	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,727.24	1,140.45
26 28 16 16-0064	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,212.38	1,354.78
26 28 16 16-0065	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,867.66	1,581.16
26 28 16 16-0066		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0067	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	560.24	216.36
26 28 16 16-0068	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	896.60	306.05
26 28 16 16-0069	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,241.38	348.45
26 28 16 16-0070	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,926.30	545.44
26 28 16 16-0071	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,752.08	896.05
26 28 16 16-0072	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,334.77	1,254.39
26 28 16 16-0073	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,124.08	1,354.78
26 28 16 16-0074	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	12,116.20	1,581.16

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0075		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0076	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	589.04	176.12
26 28 16 16-0077	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	905.29	245.22
26 28 16 16-0078	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,228.63	282.47
26 28 16 16-0079	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,929.10	451.82
26 28 16 16-0080	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,885.16	752.58
26 28 16 16-0081	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,291.33	1,026.24
26 28 16 16-0082	EA	800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,908.94	1,219.30
26 28 16 16-0083	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	14,240.56	1,422.52
26 28 16 16-0084		480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0085	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	642.31	194.41
26 28 16 16-0086	EA	60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	994.72	275.70
26 28 16 16-0087	EA	100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,338.79	313.63
26 28 16 16-0088	EA	200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,080.91	491.11
26 28 16 16-0089	EA	400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,162.65	806.09
26 28 16 16-0090	EA	600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,799.36	1,129.21
26 28 16 16-0091	EA	800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,512.21	1,219.30
26 28 16 16-0092		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0093	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	687.28	194.68
26 28 16 16-0094	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,071.41	275.43
26 28 16 16-0095	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,463.52	313.63
26 28 16 16-0096	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,273.03	490.84
26 28 16 16-0097	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,431.39	806.36
26 28 16 16-0098	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,594.72	1,128.94
26 28 16 16-0099	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	12,420.08	1,219.30
26 28 16 16-0100	EA	1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	16,274.81	1,422.52
26 28 16 16-0101		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0102	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,021.00	176.39
26 28 16 16-0103	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,229.26	245.49
26 28 16 16-0104	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,896.83	282.20
26 28 16 16-0105	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,842.98	451.55
26 28 16 16-0106		480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0107	EA	30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,105.24	194.41
26 28 16 16-0108	EA	60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,341.87	275.70
26 28 16 16-0109	EA	100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,054.73	313.63
26 28 16 16-0110	EA	200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,060.08	491.11



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,230.42	194.68
26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,479.94	275.43
26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,303.03	313.63
26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,421.78	490.84
26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002) Note: Includes fuses and neutral bar.		
26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)		
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	359.45	117.87
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	492.39	141.84
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	764.24	165.82
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,420.55	261.61
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,406.91	405.75
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,391.98	600.57
26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)		
26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	493.79	185.20
26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	699.13	245.49
26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	977.99	272.72
26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,752.56	426.89
26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,001.12	701.23
26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,160.75	981.67
26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)		
26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	552.20	185.20
26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	793.30	245.49
26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,063.67	272.72
26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,968.43	426.89
26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,370.11	701.23
26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,394.66	981.67
26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)		
26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0138)		
26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	490.76	163.93
26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	657.07	188.45
26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,500.26	301.16
26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,236.40	501.27
26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,626.68	683.08

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0145		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0138)		
26 28 16 16-0146	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	463.81	153.36
26 28 16 16-0147	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	635.10	213.37
26 28 16 16-0148	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	976.31	245.49
26 28 16 16-0149	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,684.25	392.75
26 28 16 16-0150	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,544.19	654.63
26 28 16 16-0151	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,047.73	892.26
26 28 16 16-0152		NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0153		Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0152) Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0154		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)		
26 28 16 16-0155	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	772.46	159.18
26 28 16 16-0156	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,236.89	191.03
26 28 16 16-0157	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,548.06	222.18
26 28 16 16-0158	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,264.25	338.69
26 28 16 16-0159	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,029.98	541.91
26 28 16 16-0160	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,844.99	722.77
26 28 16 16-0161	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,296.38	812.86
26 28 16 16-0162	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,635.74	948.34
26 28 16 16-0163		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)		
26 28 16 16-0164	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,337.44	212.16
26 28 16 16-0165	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,591.63	260.12
26 28 16 16-0166	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,268.23	298.73
26 28 16 16-0167	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,192.28	448.03
26 28 16 16-0168	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,978.21	733.07
26 28 16 16-0169	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,876.84	1,008.09
26 28 16 16-0170	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,973.78	1,160.77
26 28 16 16-0171	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	20,897.85	1,306.69
26 28 16 16-0172		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)		
26 28 16 16-0173	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	979.22	250.63
26 28 16 16-0174	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,562.89	331.92
26 28 16 16-0175	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,888.33	364.43
26 28 16 16-0176	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,796.80	564.26
26 28 16 16-0177	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,084.61	940.89
26 28 16 16-0178	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,190.62	1,254.52



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0179		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0180	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,510.04	297.10
26 28 16 16-0181	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,800.42	364.16
26 28 16 16-0182	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,419.48	418.08
26 28 16 16-0183	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,512.11	627.26
26 28 16 16-0184	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,434.21	1,026.37
26 28 16 16-0185	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,486.07	1,411.27
26 28 16 16-0186	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	19,139.05	1,625.73
26 28 16 16-0187	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	22,925.44	1,828.95
26 28 16 16-0188		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0189	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,078.25	250.63
26 28 16 16-0190	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,565.76	331.92
26 28 16 16-0191	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,027.59	364.43
26 28 16 16-0192	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,889.68	564.26
26 28 16 16-0193	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,169.81	940.89
26 28 16 16-0194	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,127.77	1,254.52
26 28 16 16-0195	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	18,660.69	1,422.52
26 28 16 16-0196	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	23,280.11	1,625.73
26 28 16 16-0197		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0198	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,566.86	297.37
26 28 16 16-0199	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,864.31	364.43
26 28 16 16-0200	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,561.47	417.95
26 28 16 16-0201	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,604.40	627.26
26 28 16 16-0202	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,767.89	1,026.24
26 28 16 16-0203	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,869.44	1,411.00
26 28 16 16-0204	EA	800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	20,346.26	1,625.73
26 28 16 16-0205	EA	1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	24,516.70	1,828.95
26 28 16 16-0206		Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0207		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0208	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	734.93	139.40
26 28 16 16-0209	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,204.69	193.05
26 28 16 16-0210	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,588.35	221.37
26 28 16 16-0211	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,104.63	358.47
26 28 16 16-0212	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,713.04	597.99
26 28 16 16-0213	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,634.72	797.29
26 28 16 16-0214	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,937.56	948.75

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0215	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,422.40	1,084.23	
26 28 16 16-0216		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0206)			
26 28 16 16-0217	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	827.89	153.64	
26 28 16 16-0218	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,365.73	215.01	
26 28 16 16-0219	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,794.50	242.78	
26 28 16 16-0220	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,338.75	376.36	
26 28 16 16-0221	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,355.88	627.26	
26 28 16 16-0222	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,325.96	836.30	
26 28 16 16-0223	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,866.48	993.87	
26 28 16 16-0224	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	19,643.65	1,128.94	
26 28 16 16-0225		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0206)			
26 28 16 16-0226	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	874.31	209.04	
26 28 16 16-0227	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,397.69	289.52	
26 28 16 16-0228	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,809.73	332.05	
26 28 16 16-0229	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,463.03	537.72	
26 28 16 16-0230	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,382.34	896.86	
26 28 16 16-0231	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,571.70	1,195.59	
26 28 16 16-0232	EA	800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,042.30	1,422.52	
26 28 16 16-0233	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	19,950.41	1,625.73	
26 28 16 16-0234		480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0206)			
26 28 16 16-0235	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	949.56	230.31	
26 28 16 16-0236	EA	60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,522.33	322.58	
26 28 16 16-0237	EA	100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,955.82	364.16	
26 28 16 16-0238	EA	200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,615.92	564.53	
26 28 16 16-0239	EA	400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,726.35	940.76	
26 28 16 16-0240	EA	600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,201.47	1,254.39	
26 28 16 16-0241	EA	800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,048.74	1,490.25	
26 28 16 16-0242	EA	1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	21,276.45	1,693.47	
26 28 16 16-0243		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0206)			
26 28 16 16-0244	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	497.77	230.31	
26 28 16 16-0245	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,580.77	322.58	
26 28 16 16-0246	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,037.29	364.16	
26 28 16 16-0247	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,715.08	564.53	
26 28 16 16-0248	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,983.09	940.76	
26 28 16 16-0249	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,162.24	1,254.39	
26 28 16 16-0250	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,026.76	1,490.25	
26 28 16 16-0251	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	21,246.54	1,693.47	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0252	General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0152) Note: With fuses, neutral bar, and hub if required.			
26 28 16 16-0253	240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0252)			
26 28 16 16-0254	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	466.92	138.46
26 28 16 16-0255	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	662.82	166.09
26 28 16 16-0256	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	875.15	193.19
26 28 16 16-0257	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,808.63	294.52
26 28 16 16-0258	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,458.03	471.19
26 28 16 16-0259	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,930.20	628.61
26 28 16 16-0260	240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0252)			
26 28 16 16-0261	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	627.12	218.26
26 28 16 16-0262	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	908.61	288.71
26 28 16 16-0263	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,121.72	316.75
26 28 16 16-0264	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,202.54	490.84
26 28 16 16-0265	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,154.47	818.02
26 28 16 16-0266	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,866.02	1,091.14
26 28 16 16-0267	240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0252)			
26 28 16 16-0268	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	708.97	218.12
26 28 16 16-0269	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	990.69	288.71
26 28 16 16-0270	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,385.99	316.75
26 28 16 16-0271	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,373.23	490.84
26 28 16 16-0272	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,264.12	818.15
26 28 16 16-0273	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,722.08	1,091.14
26 28 16 16-0274	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,937.51	1,236.10
26 28 16 16-0275	General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0152)			
26 28 16 16-0276	240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0275)			
26 28 16 16-0277	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	421.84	121.25
26 28 16 16-0278	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	694.54	167.86
26 28 16 16-0279	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	727.85	192.51
26 28 16 16-0280	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,843.60	311.59
26 28 16 16-0281	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,556.55	519.96
26 28 16 16-0282	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,063.29	693.24
26 28 16 16-0283	240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0275)			
26 28 16 16-0284	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	661.39	181.81

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0285	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	953.46	251.72
26 28 16 16-0286	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,406.95	288.71
26 28 16 16-0287	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,422.40	467.54
26 28 16 16-0288		NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0289		Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0288) Note: With fuses and neutral bar (stainless steel).		
26 28 16 16-0290		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0291	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,090.84	135.48
26 28 16 16-0292	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,511.56	163.25
26 28 16 16-0293	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,143.62	190.76
26 28 16 16-0294	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,109.09	301.03
26 28 16 16-0295	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,472.67	467.13
26 28 16 16-0296	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,800.71	690.67
26 28 16 16-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0298	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,656.30	150.52
26 28 16 16-0299	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,951.99	181.27
26 28 16 16-0300	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,560.48	211.89
26 28 16 16-0301	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,853.70	334.63
26 28 16 16-0302	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,025.23	519.42
26 28 16 16-0303	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,540.90	767.35
26 28 16 16-0304		240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0305	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,341.13	212.97
26 28 16 16-0306	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,932.22	282.20
26 28 16 16-0307	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,624.88	313.63
26 28 16 16-0308	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,989.69	490.84
26 28 16 16-0309	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,599.12	806.36
26 28 16 16-0310	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	22,264.23	1,128.94
26 28 16 16-0311		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0312	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,832.99	235.19
26 28 16 16-0313	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,224.64	313.63
26 28 16 16-0314	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,858.20	352.79
26 28 16 16-0315	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,281.96	537.57
26 28 16 16-0316	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,104.96	868.42
26 28 16 16-0317	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	22,914.10	1,254.39
26 28 16 16-0318		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0319	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,804.20	212.97



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0320	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,511.12	282.20	
26 28 16 16-0321	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,783.25	313.63	
26 28 16 16-0322	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,573.71	490.84	
26 28 16 16-0323	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,716.68	806.36	
26 28 16 16-0324	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	26,548.52	1,128.94	
26 28 16 16-0325		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)			
26 28 16 16-0326	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,380.18	235.19	
26 28 16 16-0327	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,845.13	313.63	
26 28 16 16-0328	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,040.61	352.79	
26 28 16 16-0329	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,879.22	537.57	
26 28 16 16-0330	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	19,264.59	868.42	
26 28 16 16-0331	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	27,256.79	1,254.39	
26 28 16 16-0332		Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0288)			
26 28 16 16-0333		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)			
26 28 16 16-0334	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,005.38	135.48	
26 28 16 16-0335	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,437.84	188.45	
26 28 16 16-0336	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,607.13	216.76	
26 28 16 16-0337	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,386.21	346.28	
26 28 16 16-0338	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,633.55	576.59	
26 28 16 16-0339	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,667.34	785.50	
26 28 16 16-0340		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)			
26 28 16 16-0341	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,281.20	149.43	
26 28 16 16-0342	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,777.81	211.35	
26 28 16 16-0343	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,251.51	240.87	
26 28 16 16-0344	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,259.78	376.36	
26 28 16 16-0345	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,216.36	619.41	
26 28 16 16-0346	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,987.25	867.06	
26 28 16 16-0347		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)			
26 28 16 16-0348	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,087.24	176.39	
26 28 16 16-0349	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,518.93	245.49	
26 28 16 16-0350	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,625.33	282.20	
26 28 16 16-0351	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,076.76	451.55	
26 28 16 16-0352	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,198.90	752.71	
26 28 16 16-0353	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,646.21	1,026.37	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0354		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0355	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,371.51	194.68
26 28 16 16-0356	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,905.96	275.43
26 28 16 16-0357	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,397.00	313.63
26 28 16 16-0358	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,488.68	490.84
26 28 16 16-0359	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,974.80	806.36
26 28 16 16-0360	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,079.12	1,128.94
26 28 16 16-0361		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0362	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,878.92	176.39
26 28 16 16-0363	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,447.51	245.49
26 28 16 16-0364	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,793.83	282.20
26 28 16 16-0365	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,886.64	451.55
26 28 16 16-0366		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0367	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,276.28	194.68
26 28 16 16-0368	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,929.74	275.43
26 28 16 16-0369	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,889.32	313.63
26 28 16 16-0370	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,534.23	490.84
26 28 16 16-0371		Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0288)		
26 28 16 16-0372		600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0371)		
26 28 16 16-0373	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,808.95	235.06
26 28 16 16-0374	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,335.66	313.63
26 28 16 16-0375	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,821.28	352.92
26 28 16 16-0376	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,169.97	537.85
26 28 16 16-0377		600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0371)		
26 28 16 16-0378	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,570.20	194.41
26 28 16 16-0379	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,085.92	275.70
26 28 16 16-0380	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,396.38	313.63
26 28 16 16-0381	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,045.26	491.11
26 28 16 16-0382		Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0288)		
26 28 16 16-0383		600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0382)		
26 28 16 16-0384	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,359.91	235.06
26 28 16 16-0385	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,952.17	313.63
26 28 16 16-0386	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,987.19	352.92



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0382)		
26 28 16 16-0388 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,091.51	194.41
26 28 16 16-0389 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,669.66	275.70
26 28 16 16-0390 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	8,515.47	313.63
26 28 16 16-0391 NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 16-0001) Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
26 28 16 16-0392 Heavy-Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 16-0391) Note: With fuses and neutral bar.		
26 28 16 16-0393 EA 30 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,436.89	270.95
26 28 16 16-0394 EA 60 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,878.71	322.58
26 28 16 16-0395 EA 100 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	4,300.54	364.16
26 28 16 16-0396 EA 200 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	9,153.66	564.53
26 28 16 16-0397 Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0391)		
26 28 16 16-0398 EA 60 Amperes, 240 Volt, 3 Phase, Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,654.51	322.58
26 28 16 16-0399 EA 100 Amperes, 240 Volt, 3 Phase, Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,108.32	364.16
26 28 16 16-0400 EA 200 Amperes, 240 Volt, 3 Phase, Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	5,728.38	564.53
26 28 16 16-0401 NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0402 Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0401) Note: With fuses and neutral bar.		
26 28 16 16-0403 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0404 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	751.59	135.48
26 28 16 16-0405 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	983.33	163.25
26 28 16 16-0406 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,346.10	191.03
26 28 16 16-0407 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,273.18	300.76
26 28 16 16-0408 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,874.61	467.40
26 28 16 16-0409 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,821.69	690.94
26 28 16 16-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0411 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,188.52	150.38
26 28 16 16-0412 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,221.94	181.54
26 28 16 16-0413 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,766.75	212.02
26 28 16 16-0414 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,763.74	334.63
26 28 16 16-0415 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,058.37	518.88
26 28 16 16-0416 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	12,019.77	767.48
26 28 16 16-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0418 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,041.24	212.70
26 28 16 16-0419 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,444.08	282.47
26 28 16 16-0420 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,981.02	313.63
26 28 16 16-0421 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,941.14	491.11
26 28 16 16-0422 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,794.49	806.09

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0423 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,324.97	1,129.21
26 28 16 16-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0425 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,393.38	235.06
26 28 16 16-0426 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,571.46	313.63
26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,331.41	352.92
26 28 16 16-0428 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,389.70	537.85
26 28 16 16-0429 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,139.69	868.42
26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	13,484.85	1,254.52
26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,114.71	212.70
26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,494.55	282.47
26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,139.43	313.63
26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,140.02	491.11
26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,326.99	806.09
26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,684.71	1,129.21
26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)		
26 28 16 16-0439 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,478.55	235.06
26 28 16 16-0440 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,798.65	313.63
26 28 16 16-0441 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,487.63	352.92
26 28 16 16-0442 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,687.87	537.85
26 28 16 16-0443 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,622.46	868.42
26 28 16 16-0444 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	13,882.42	1,254.52
26 28 16 16-0445 Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0401)		
26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0447 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	787.34	195.76
26 28 16 16-0448 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,042.84	272.99
26 28 16 16-0449 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,387.62	313.63
26 28 16 16-0450 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,973.59	501.95
26 28 16 16-0451 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,367.64	836.57
26 28 16 16-0452 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,935.00	1,140.72
26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0454 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	877.83	216.09
26 28 16 16-0455 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,158.77	306.18
26 28 16 16-0456 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,546.68	348.17
26 28 16 16-0457 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,144.33	545.30



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Low-Voltage Circuit Protective Devices			26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0458 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,623.35	896.19
26 28 16 16-0459 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,662.39	1,254.52
26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0461 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,013.71	176.12
26 28 16 16-0462 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,331.43	245.22
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,780.42	282.47
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,532.99	451.82
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,369.66	752.58
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,501.29	1,026.24
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	988.52	194.41
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,438.18	275.70
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,905.14	313.63
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,493.94	491.11
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,382.74	806.09
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	10,138.55	1,129.21
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,223.88	176.12
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,450.96	245.22
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,270.07	282.47
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,599.06	451.82
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,551.32	575.78
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,269.67	194.41
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,580.17	275.70
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,423.41	313.63
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,693.76	491.11
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,944.79	758.67
26 28 16 16-0486 Double Throw Safety Switches (26 28 16 16-0001)		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	942.86	174.09
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,397.05	227.61
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,962.64	297.37
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,618.56	386.79
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,381.31	483.65
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,624.23	775.61

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0495 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0496 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,186.40	243.86
26 28 16 16-0497 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,659.16	318.37
26 28 16 16-0498 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,506.41	416.60
26 28 16 16-0499 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,690.36	541.91
26 28 16 16-0500 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,791.85	677.39
26 28 16 16-0501 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,248.51	1,083.83
26 28 16 16-0502 EA 1,600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	28,266.40	1,761.21
26 28 16 16-0503 EA 2,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	32,168.11	2,032.17
26 28 16 16-0504 EA 2,600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	43,869.46	2,303.12
26 28 16 16-0505 EA 3,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	48,178.67	2,574.08
26 28 16 16-0506 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0507 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,579.10	304.82
26 28 16 16-0508 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,303.79	398.30
26 28 16 16-0509 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,114.71	520.23
26 28 16 16-0510 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,641.50	676.04
26 28 16 16-0511 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,442.44	846.73
26 28 16 16-0512 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	14,436.67	1,356.80
26 28 16 16-0513 EA 1,600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	33,450.23	1,896.69
26 28 16 16-0514 EA 2,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	38,491.82	2,167.64
26 28 16 16-0515 EA 2,600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	54,766.95	2,438.59
26 28 16 16-0516 EA 3,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	60,552.32	2,709.56
26 28 16 16-0517 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0518 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,618.46	227.61
26 28 16 16-0519 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,440.09	297.37
26 28 16 16-0520 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,604.09	386.79
26 28 16 16-0521 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,560.14	483.65
26 28 16 16-0522 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,644.27	775.61
26 28 16 16-0523 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0524 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,799.80	318.37
26 28 16 16-0525 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,677.81	416.60
26 28 16 16-0526 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,913.04	541.91
26 28 16 16-0527 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,947.29	677.39
26 28 16 16-0528 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	13,262.68	1,083.83
26 28 16 16-0529 EA 1,600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	32,101.72	1,761.21
26 28 16 16-0530 EA 2,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	36,524.19	2,032.17
26 28 16 16-0531 EA 2,600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	43,869.40	2,303.12
26 28 16 16-0532 EA 3,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	52,481.72	2,574.08
26 28 16 16-0533 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0534 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,442.30	398.30
26 28 16 16-0535 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,315.31	520.23
26 28 16 16-0536 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,055.43	676.04
26 28 16 16-0537 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,325.19	846.73
26 28 16 16-0538 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,425.66	1,356.80
26 28 16 16-0539 EA 1,600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	36,415.91	1,896.69
26 28 16 16-0540 EA 2,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	41,907.47	2,167.64
26 28 16 16-0541 EA 2,600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	59,755.94	2,438.59
26 28 16 16-0542 EA 3,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	66,065.64	2,709.56
26 28 16 16-0543 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0544 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0543)		
26 28 16 16-0545 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,464.63	297.37
26 28 16 16-0546 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,699.72	386.79
26 28 16 16-0547 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	18,793.33	483.65
26 28 16 16-0548 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	32,377.28	775.61
26 28 16 16-0549 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0543)		
26 28 16 16-0550 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,226.26	415.91
26 28 16 16-0551 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,229.69	541.24
26 28 16 16-0552 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	19,348.45	677.39
26 28 16 16-0553 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	20,971.27	1,085.85
26 28 16 16-0554 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0543)		
26 28 16 16-0555 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,124.87	304.96
26 28 16 16-0556 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,871.78	398.03
26 28 16 16-0557 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,435.53	520.10
26 28 16 16-0558 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,872.21	676.31
26 28 16 16-0559 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,415.29	846.73
26 28 16 16-0560 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	15,590.97	1,356.95
26 28 16 16-0561 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0543)		
26 28 16 16-0562 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,094.25	227.61
26 28 16 16-0563 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,195.39	297.37
26 28 16 16-0564 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,841.55	386.79
26 28 16 16-0565 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,281.62	483.65
26 28 16 16-0566 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	15,055.60	775.61
26 28 16 16-0567 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0543)		
26 28 16 16-0568 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,362.75	318.37
26 28 16 16-0569 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,570.30	415.91
26 28 16 16-0570 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,417.18	541.24
26 28 16 16-0571 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,211.66	677.39
26 28 16 16-0572 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	16,383.87	1,085.85
26 28 16 16-0573 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0543)		
26 28 16 16-0574 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,903.88	398.03
26 28 16 16-0575 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,450.24	520.10
26 28 16 16-0576 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,076.64	676.31
26 28 16 16-0577 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	13,391.15	846.73
26 28 16 16-0578 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	15,724.01	1,356.95
26 28 16 16-0579 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0580 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0579)		
26 28 16 16-0581 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,511.94	174.23
26 28 16 16-0582 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,840.57	227.46
26 28 16 16-0583 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,207.82	297.24
26 28 16 16-0584 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,413.34	386.52
26 28 16 16-0585 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,284.27	483.80
26 28 16 16-0586 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	12,138.20	775.34
26 28 16 16-0587 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0579)		
26 28 16 16-0588 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,879.59	243.86
26 28 16 16-0589 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,401.31	318.37
26 28 16 16-0590 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,030.27	415.91
26 28 16 16-0591 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,625.35	541.24
26 28 16 16-0592 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,302.43	677.39
26 28 16 16-0593 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	13,583.27	1,085.85
26 28 16 16-0594 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0579)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0595	EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,311.85	304.96
26 28 16 16-0596	EA	60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,038.30	398.03
26 28 16 16-0597	EA	100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,911.75	520.10
26 28 16 16-0598	EA	200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,393.76	676.31
26 28 16 16-0599	EA	400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	17,454.63	846.73
26 28 16 16-0600	EA	600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	21,638.79	1,356.95
26 28 16 16-0601 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0579)				
26 28 16 16-0602	EA	60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,759.08	227.46
26 28 16 16-0603	EA	100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,943.59	297.24
26 28 16 16-0604	EA	200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,505.01	386.52
26 28 16 16-0605	EA	400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	10,842.12	483.80
26 28 16 16-0606	EA	600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	14,537.78	775.34
26 28 16 16-0607 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0579)				
26 28 16 16-0608	EA	60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,114.91	318.37
26 28 16 16-0609	EA	100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,357.75	415.91
26 28 16 16-0610	EA	200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,167.93	541.24
26 28 16 16-0611	EA	400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	11,748.61	677.39
26 28 16 16-0612	EA	600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	15,838.25	1,085.85
26 28 16 16-0613 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0579)				
26 28 16 16-0614	EA	60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,090.62	398.03
26 28 16 16-0615	EA	100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,297.75	520.10
26 28 16 16-0616	EA	200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,621.27	676.31
26 28 16 16-0617	EA	400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	17,944.34	846.73
26 28 16 16-0618	EA	600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	22,287.90	1,356.95
26 28 16 16-0619 Removal And Reinstallation Of Disconnect (Safety) Switches (26 28 16 16-0001)				
Note: Includes storage and cleaning.				
26 28 16 16-0620	EA	Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch.....	677.39	
26 28 16 16-0621	EA	Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	880.64	
26 28 16 16-0622	EA	Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	982.29	
26 28 16 16-0623	EA	Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	1,151.63	
26 28 16 16-0624 Bolted Contact Switches (26 28 16 16)				
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.				
26 28 16 16-0625 Electrical Trip, Bolted Contact Switches (26 28 16 16-0624)				
26 28 16 16-0626 Top Feed, Electrical Trip, Bolted Contact Switches (26 28 16 16-0625)				
26 28 16 16-0627	EA	800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....	10,803.68	1,354.78
26 28 16 16-0628	EA	1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....	11,692.86	1,625.73
26 28 16 16-0629	EA	1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....	12,722.28	1,896.69
26 28 16 16-0630	EA	2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....	13,431.15	2,167.64
26 28 16 16-0631	EA	2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....	15,168.48	2,438.59
26 28 16 16-0632	EA	3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....	19,029.52	2,709.56
26 28 16 16-0633	EA	4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....	25,656.34	3,251.47
26 28 16 16-0634 Bottom Feed, Electrical Trip, Bolted Contact Switches (26 28 16 16-0625)				
26 28 16 16-0635	EA	800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....	11,451.47	1,354.78
26 28 16 16-0636	EA	1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....	12,467.54	1,625.73
26 28 16 16-0637	EA	1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....	13,490.28	1,896.69
26 28 16 16-0638	EA	2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....	14,533.08	2,167.64
26 28 16 16-0639	EA	2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....	16,357.22	2,438.59
26 28 16 16-0640	EA	3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....	21,260.07	2,709.56
26 28 16 16-0641	EA	4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....	27,980.39	3,251.47
26 28 16 16-0642 Manually Operated, Bolted Contact Switches (26 28 16 16-0624)				
26 28 16 16-0643 Top Feed, Manually Operated, Bolted Contact Switches (26 28 16 16-0642)				
26 28 16 16-0644	EA	800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480).....	7,891.93	1,354.78
26 28 16 16-0645	EA	1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480).....	8,815.84	1,625.73
26 28 16 16-0646	EA	1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480).....	9,794.50	1,896.69
26 28 16 16-0647	EA	2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480).....	10,765.17	2,167.64
26 28 16 16-0648	EA	2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480).....	11,802.61	2,438.59
26 28 16 16-0649	EA	3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480).....	15,663.65	2,709.56
26 28 16 16-0650	EA	4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480).....	22,210.33	3,251.47



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Circuit Protective Devices			26 28

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0651 Bottom Feed, Manually Operated, Bolted Contact Switches (26 28 16 16-0642)		
26 28 16 16-0652 EA 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480).....	8,320.68	1,354.78
26 28 16 16-0653 EA 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480).....	9,463.64	1,625.73
26 28 16 16-0654 EA 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480).....	10,422.27	1,896.69
26 28 16 16-0655 EA 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480).....	11,594.62	2,167.64
26 28 16 16-0656 EA 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480).....	12,844.43	2,438.59
26 28 16 16-0657 EA 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480).....	17,727.24	2,709.56
26 28 16 16-0658 EA 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480).....	24,374.10	3,251.47
26 29 Low-Voltage Controllers (26 20)		
26 29 13 Enclosed Controllers (26 29)		
26 29 13 13 Across-The-Line Motor Controllers (26 29 13)		
26 29 13 13-0001 Manual Motor Starters (26 29 13 13)		
26 29 13 13-0002 Fractional HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0003 EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	253.88	67.89
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.28	
For Oversized Enclosure, Add	32.96	
For Pilot Light, Add	48.34	
26 29 13 13-0004 EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	332.52	88.25
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.28	
For Oversized Enclosure, Add	32.96	
For Pilot Light, Add	48.34	
26 29 13 13-0005 EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	286.84	67.89
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.28	
For Oversized Enclosure, Add	32.96	
For Pilot Light, Add	48.34	
26 29 13 13-0006 EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	365.48	88.25
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.28	
For Oversized Enclosure, Add	32.96	
For Pilot Light, Add	48.34	
26 29 13 13-0007 EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	268.17	67.89
For Oversized Enclosure, Add	32.96	
26 29 13 13-0008 EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	351.20	88.25
For Oversized Enclosure, Add	32.96	
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	538.10	81.47
For Pilot Light, Add	126.33	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	620.03	101.83
For Pilot Light, Add	126.33	
26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	571.06	81.47
26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	649.70	101.83
26 29 13 13-0013 Non-Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0014 EA NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	205.74	67.89
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.90	
For Pilot Light, Add	76.32	
26 29 13 13-0015 EA NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	334.45	88.25
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.90	
For Pilot Light, Add	76.32	
26 29 13 13-0016 EA NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	232.03	74.67
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.90	
For Pilot Light, Add	76.32	
26 29 13 13-0017 EA NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	361.81	95.04
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.90	
For Pilot Light, Add	76.32	
26 29 13 13-0018 EA NEMA 1, Non-Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	236.48	67.89
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.90	
For Pilot Light, Add	76.32	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0019	EA	NEMA 1, Non-Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	366.25	88.25
		Note: NEMA 1 or flush cover plate installation.		
		For Oversize Enclosure, Add	15.90	
		For Pilot Light, Add	76.32	
26 29 13 13-0020	EA	NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	495.77	81.47
		For Pilot Light, Add	120.84	
26 29 13 13-0021	EA	NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	612.83	101.83
		For Pilot Light, Add	120.84	
26 29 13 13-0022	EA	NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	523.13	88.25
		For Pilot Light, Add	120.84	
26 29 13 13-0023	EA	NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	637.01	108.62
		For Pilot Light, Add	120.84	
26 29 13 13-0024	EA	NEMA 3R, 7 And 9, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	525.46	81.47
26 29 13 13-0025	EA	NEMA 3R, 7 And 9, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	650.99	101.83
26 29 13 13-0026	EA	Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	150.16	47.52
		For Pilot Light, Add	76.32	
26 29 13 13-0027	EA	Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	278.88	67.89
		For Pilot Light, Add	76.32	
26 29 13 13-0028	EA	Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	176.46	54.31
		For Pilot Light, Add	76.32	
26 29 13 13-0029	EA	Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	305.17	74.67
		For Pilot Light, Add	76.32	
26 29 13 13-0030 Reversing Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0031	EA	NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	548.62	122.20
		For Pilot Light, Add	122.96	
26 29 13 13-0032	EA	NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	793.33	162.93
		For Pilot Light, Add	122.96	
26 29 13 13-0033 Two Speed Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0034	EA	NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	548.62	122.20
26 29 13 13-0035	EA	NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	793.33	162.93
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0037	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1).....	500.21	81.47
26 29 13 13-0038	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1).....	500.21	81.47
26 29 13 13-0039	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	1,028.31	95.04
26 29 13 13-0040	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	1,028.31	95.04
26 29 13 13-0041	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	1,340.30	95.04
26 29 13 13-0042	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	636.13	95.04
26 29 13 13-0043	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	426.52	61.09
26 29 13 13-0044	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	592.88	88.25
26 29 13 13-0045	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	592.88	88.25
26 29 13 13-0046	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,229.74	101.83
26 29 13 13-0047	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,229.74	101.83
26 29 13 13-0048	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,565.89	101.83
26 29 13 13-0049	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	728.79	101.83
26 29 13 13-0050	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	519.20	67.89
26 29 13 13-0051	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	776.74	95.04
26 29 13 13-0052	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	776.74	95.04



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12)	1,460.83	108.62
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2)	1,460.83	108.62
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2)	1,782.71	108.62
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2)	915.94	108.62
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2)	706.34	74.67
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2)	619.49	101.83
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2)	619.49	101.83
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12)	1,147.60	115.40
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2)	1,147.60	115.40
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2)	1,468.38	115.40
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2)	756.51	115.40
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2)	549.10	81.47
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3)	712.17	108.62
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3)	712.17	108.62
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13)	1,349.03	122.20
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3)	1,349.03	122.20
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3)	1,692.88	122.20
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3)	848.09	122.20
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3)	638.48	88.25
26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1)	1,437.00	142.56
26 29 13 13-0074 EA NEMA 4, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1)	1,437.00	142.56
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1)	1,262.15	101.83
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1)	1,698.14	156.14
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1)	1,523.31	115.40
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1)	1,437.00	142.56
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1)	1,262.15	101.83
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1)	1,698.14	156.14
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1)	1,523.31	115.40
26 29 13 13-0083 Magnetic Contactors/Starters (26 29 13 13)		
26 29 13 13-0084 Non-Reversing, Magnetic Contactors (26 29 13 13-0083)		
26 29 13 13-0085 Open Enclosure, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO11)	586.84	135.78
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO12)	660.14	149.35
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO5)	632.98	135.78
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO1)	707.37	149.35
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO2)	780.66	162.93
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO3)	986.27	203.66
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO4)	1,240.21	244.40

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0093	EA	Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO5).....	737.04	149.35
26 29 13 13-0094	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO1).....	810.33	162.93
26 29 13 13-0095	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO2).....	885.82	176.51
26 29 13 13-0096	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,133.26	237.60
26 29 13 13-0097	EA	Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,386.09	278.34
26 29 13 13-0098	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,234.37	162.93
26 29 13 13-0099	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,376.26	203.66
26 29 13 13-0100	EA	Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,794.36	271.55
26 29 13 13-0101	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,846.44	203.66
26 29 13 13-0102	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO2).....	2,108.55	271.55
26 29 13 13-0103	EA	Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,681.55	339.44
26 29 13 13-0104	EA	Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,819.20	407.33
26 29 13 13-0105	EA	Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO1).....	4,152.52	339.44
26 29 13 13-0106	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,570.62	407.33
26 29 13 13-0107	EA	Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO3).....	6,176.27	475.22
26 29 13 13-0108	EA	Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO1).....	8,341.98	407.33
26 29 13 13-0109	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO2).....	9,271.58	543.10
26 29 13 13-0110	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHO2).....	23,972.93	814.64
26 29 13 13-0111	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJO2).....	34,332.97	1,221.97
26 29 13 13-0112		NEMA 1, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)		
26 29 13 13-0113	EA	Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG11).....	620.89	135.78
26 29 13 13-0114	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG12).....	694.19	149.35
26 29 13 13-0115	EA	Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG5).....	667.03	135.78
26 29 13 13-0116	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG1).....	742.53	149.35
26 29 13 13-0117	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG2).....	815.82	162.93
26 29 13 13-0118	EA	Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG3).....	1,023.62	203.66
26 29 13 13-0119	EA	Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,278.66	244.40
26 29 13 13-0120	EA	Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG5).....	773.29	149.35
26 29 13 13-0121	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG1).....	848.78	162.93
26 29 13 13-0122	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG2).....	922.07	176.51
26 29 13 13-0123	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG3).....	1,170.61	237.60
26 29 13 13-0124	EA	Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,422.35	278.34
26 29 13 13-0125	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,396.96	162.93
26 29 13 13-0126	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,539.95	203.66
26 29 13 13-0127	EA	Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG3).....	1,956.95	271.55
26 29 13 13-0128	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG1).....	2,166.13	203.66
26 29 13 13-0129	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG2).....	2,427.13	271.55
26 29 13 13-0130	EA	Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG3).....	3,001.23	339.44
26 29 13 13-0131	EA	Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG1).....	4,814.95	339.44
26 29 13 13-0132	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG2).....	5,233.05	407.33
26 29 13 13-0133	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGG2).....	10,478.90	543.10



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0134	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHG2).....	29,282.28	814.64	
26 29 13 13-0135	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJG2).....	39,657.69	1,221.97	
26 29 13 13-0136 NEMA 12, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)					
26 29 13 13-0137	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA1).....	930.38	149.35	
26 29 13 13-0138	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA2).....	1,003.67	162.93	
26 29 13 13-0139	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCA2).....	1,109.93	176.51	
26 29 13 13-0140	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA1).....	1,739.71	162.93	
26 29 13 13-0141	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,883.80	203.66	
26 29 13 13-0142	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA1).....	2,572.59	203.66	
26 29 13 13-0143	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA2).....	2,832.50	271.55	
26 29 13 13-0144	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFA2).....	6,578.79	407.33	
26 29 13 13-0145	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGA2).....	13,922.89	543.10	
26 29 13 13-0146	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHA2).....	33,505.15	814.64	
26 29 13 13-0147 NEMA 4/4X, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)					
Note: Brushed stainless steel enclosure.					
26 29 13 13-0148	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBW12).....	1,364.00	162.93	
26 29 13 13-0149	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW11).....	1,412.34	162.93	
26 29 13 13-0150	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW12).....	1,485.64	176.51	
26 29 13 13-0151	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,734.17	237.60	
26 29 13 13-0152	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,667.07	203.66	
26 29 13 13-0153	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEW12).....	4,022.24	271.55	
26 29 13 13-0154	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFW12).....	7,956.39	407.33	
26 29 13 13-0155	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGW12).....	13,922.89	543.10	
26 29 13 13-0156	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHW2).....	37,104.03	814.64	
26 29 13 13-0157 NEMA 7/9, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)					
Note: Bolted cast iron enclosure.					
26 29 13 13-0158	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,708.50	217.24	
26 29 13 13-0159 Non-Reversing, Magnetic Starters (26 29 13 13-0083)					
26 29 13 13-0160 Open Enclosure, Non-Reversing, Magnetic Starters (26 29 13 13-0159)					
26 29 13 13-0161	EA	Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO11).....	695.59	135.78	
26 29 13 13-0162	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO12).....	722.75	149.35	
26 29 13 13-0163	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO1).....	776.58	149.35	
26 29 13 13-0164	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO2).....	858.66	162.93	
26 29 13 13-0165	EA	Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO4).....	1,377.53	244.40	
26 29 13 13-0166	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO1).....	882.83	162.93	
26 29 13 13-0167	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO3).....	1,034.13	176.51	
26 29 13 13-0168	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO2).....	1,080.27	176.51	
26 29 13 13-0169	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO6).....	1,334.34	162.93	
26 29 13 13-0170	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO1).....	1,517.98	203.66	
26 29 13 13-0171	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEO1).....	2,342.54	271.55	
26 29 13 13-0172	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFO1).....	4,930.95	407.33	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0173	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGO1)	11,140.23	543.10	
26 29 13 13-0174	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHO2)	25,529.59	814.64	
26 29 13 13-0175	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SJO2)	36,784.96	1,221.97	
26 29 13 13-0176 NEMA 1, Non-Reversing, Magnetic Starters (26 29 13 13-0159)					
26 29 13 13-0177	EA	Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG11)	731.85	135.78	
26 29 13 13-0178	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG12)	759.01	149.35	
26 29 13 13-0179	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG1)	812.84	149.35	
26 29 13 13-0180	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG2)	894.91	162.93	
26 29 13 13-0181	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG1)	917.98	162.93	
26 29 13 13-0182	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG3)	1,001.17	176.51	
26 29 13 13-0183	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG2)	1,117.62	176.51	
26 29 13 13-0184	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG6)	1,498.02	162.93	
26 29 13 13-0185	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG1)	1,681.66	203.66	
26 29 13 13-0186	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEG1)	2,662.22	271.55	
26 29 13 13-0187	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFG1)	5,593.38	407.33	
26 29 13 13-0188	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGG1)	12,350.84	543.10	
26 29 13 13-0189 NEMA 12, Non-Reversing, Magnetic Starters (26 29 13 13-0159)					
26 29 13 13-0190	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA1)	1,000.69	149.35	
26 29 13 13-0191	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA2)	1,082.77	162.93	
26 29 13 13-0192	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA1)	1,105.84	162.93	
26 29 13 13-0193	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA3)	1,189.02	176.51	
26 29 13 13-0194	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA2)	1,305.47	176.51	
26 29 13 13-0195	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA6)	1,841.87	162.93	
26 29 13 13-0196	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA1)	2,024.41	203.66	
26 29 13 13-0197	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEA1)	3,067.59	271.55	
26 29 13 13-0198	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFA1)	6,938.02	407.33	
26 29 13 13-0199	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGA1)	15,791.54	543.10	
26 29 13 13-0200	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHA2)	37,581.91	814.64	
26 29 13 13-0201 NEMA 3R, Non-Reversing, Magnetic Starters (26 29 13 13-0159)					
26 29 13 13-0202	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH1)	1,000.69	149.35	
26 29 13 13-0203	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH2)	1,082.77	162.93	
26 29 13 13-0204	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH1)	1,105.84	162.93	
26 29 13 13-0205	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH3)	1,189.02	176.51	
26 29 13 13-0206	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH2)	1,305.47	176.51	
26 29 13 13-0207	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH6)	1,841.87	162.93	
26 29 13 13-0208	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH1)	2,024.41	203.66	
26 29 13 13-0209	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEH1)	3,067.59	271.55	
26 29 13 13-0210	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFH1)	6,938.02	407.33	
26 29 13 13-0211 NEMA 3R/4X/7/9, Non-Reversing, Magnetic Starters (26 29 13 13-0159)					
Note: Bolted cast aluminum enclosure.					



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0212	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT4)	2,823.55	230.82	
26 29 13 13-0213	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR1)	3,462.91	230.82	
26 29 13 13-0214	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR3)	3,569.15	244.40	
26 29 13 13-0215	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDR1)	5,516.29	271.55	
26 29 13 13-0216	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SET43)	6,653.94	339.44	
26 29 13 13-0217	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFT41)	10,593.59	475.22	
26 29 13 13-0218 NEMA 4/4X, Non-Reversing, Magnetic Starters (26 29 13 13-0159)					
Note: Brushed stainless steel enclosure.					
26 29 13 13-0219	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW11)	1,359.92	149.35	
26 29 13 13-0220	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW12)	1,443.10	162.93	
26 29 13 13-0221	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW11)	1,481.55	162.93	
26 29 13 13-0222	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW13)	1,564.73	176.51	
26 29 13 13-0223	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW12)	1,681.18	176.51	
26 29 13 13-0224	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW16)	2,622.95	162.93	
26 29 13 13-0225	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW11)	4,256.24	271.55	
26 29 13 13-0226	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW11)	8,314.52	407.33	
26 29 13 13-0227	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGW11)	18,437.97	543.10	
26 29 13 13-0228 NEMA 4X, Non-Reversing, Magnetic Starters (26 29 13 13-0159)					
Note: Glass polyester enclosure.					
26 29 13 13-0229	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW21)	2,808.78	203.66	
26 29 13 13-0230	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW21)	5,185.62	271.55	
26 29 13 13-0231	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW21)	10,190.86	407.33	
26 29 13 13-0232 NEMA 7/9, Non-Reversing, Magnetic Starters (26 29 13 13-0159)					
Note: Bolted cast iron enclosure.					
26 29 13 13-0233	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT1)	2,731.57	217.24	
26 29 13 13-0234	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT2)	2,823.55	230.82	
26 29 13 13-0235	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT1)	2,863.09	230.82	
26 29 13 13-0236	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT3)	2,950.67	244.40	
26 29 13 13-0237	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT2)	3,084.69	244.40	
26 29 13 13-0238	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDT1)	4,523.19	271.55	
26 29 13 13-0239 Reversing, Magnetic Starters (26 29 13 13-0083)					
26 29 13 13-0240 Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)					
26 29 13 13-0241	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13)	1,301.08	176.51	
26 29 13 13-0242	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16)	1,370.29	176.51	
26 29 13 13-0243	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1)	1,516.08	190.09	
26 29 13 13-0244	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2)	1,574.00	203.66	
26 29 13 13-0245	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10)	1,612.45	203.66	
26 29 13 13-0246	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2)	1,725.29	217.24	
26 29 13 13-0247	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3)	1,798.99	237.60	
26 29 13 13-0248	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7)	1,838.53	237.60	
26 29 13 13-0249	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1)	3,123.62	271.55	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0250 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	5,101.22	407.33
26 29 13 13-0251 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	11,691.26	610.99
26 29 13 13-0252 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	21,742.85	814.64
26 29 13 13-0253 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	70,273.91	1,493.52
26 29 13 13-0254 NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0255 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,339.83	162.93
26 29 13 13-0256 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,399.95	176.51
26 29 13 13-0257 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,439.50	176.51
26 29 13 13-0258 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,582.00	190.09
26 29 13 13-0259 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,642.11	203.66
26 29 13 13-0260 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,681.66	203.66
26 29 13 13-0261 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,824.16	217.24
26 29 13 13-0262 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,897.86	237.60
26 29 13 13-0263 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,937.40	237.60
26 29 13 13-0264 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	3,380.68	271.55
26 29 13 13-0265 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	5,546.14	407.33
26 29 13 13-0266 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	12,508.59	610.99
26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0268 EA Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,923.34	203.66
26 29 13 13-0269 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,962.89	203.66
26 29 13 13-0270 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	2,218.64	237.60
26 29 13 13-0271 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,850.87	271.55
26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0273 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,400.12	203.66
26 29 13 13-0274 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,826.05	217.24
26 29 13 13-0275 Magnetic Contactor/Starters Accessories (26 29 13 13-0083)		
26 29 13 13-0276 EA NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	179.26	16.97
For Factory Installed Accessory, Deduct		-33.94
26 29 13 13-0277 EA NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	303.28	16.97
For Factory Installed Accessory, Deduct		-33.94
26 29 13 13-0278 EA NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	179.26	16.97
For Factory Installed Accessory, Deduct		-33.94
26 29 13 13-0279 EA NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	303.28	16.97
For Factory Installed Accessory, Deduct		-33.94
26 29 13 13-0280 EA NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	303.28	16.97
For Factory Installed Accessory, Deduct		-33.94
26 29 13 13-0281 EA Internal Non-Convertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	151.18	13.58
For Factory Installed Accessory, Deduct		-27.16
26 29 13 13-0282 EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	134.90	13.58
For Factory Installed Accessory, Deduct		-27.16
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	179.26	16.97
For Factory Installed Accessory, Deduct		-33.94
26 29 13 13-0284 EA External Field Non-Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	151.18	13.58
For Factory Installed Accessory, Deduct		-27.16
26 29 13 13-0285 EA External Field Non-Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	201.81	16.97
For Factory Installed Accessory, Deduct		-33.94
26 29 13 13-0286 EA 30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	225.09	13.58
For Factory Installed Accessory, Deduct		-27.16
26 29 13 13-0287 EA 45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	386.70	13.58
For Factory Installed Accessory, Deduct		-27.16



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0288	EA	60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21)	410.50	13.58
		<i>For Factory Installed Accessory, Deduct</i>	-27.16	
26 29 13 13-0289	EA	30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8)	491.19	16.97
		<i>For Factory Installed Accessory, Deduct</i>	-33.94	
26 29 13 13-0290	EA	45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13)	855.74	16.97
		<i>For Factory Installed Accessory, Deduct</i>	-33.94	
26 29 13 13-0291	EA	60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23)	855.74	16.97
		<i>For Factory Installed Accessory, Deduct</i>	-33.94	
26 29 13 13-0292	EA	Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1)	53.07	10.18
		<i>For Factory Installed Accessory, Deduct</i>	-20.36	
26 29 13 13-0293	EA	1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3)	107.34	13.58
		<i>For Factory Installed Accessory, Deduct</i>	-27.16	
26 29 13 13-0294	EA	2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4)	141.68	16.97
		<i>For Factory Installed Accessory, Deduct</i>	-33.94	
26 29 13 13-0295	EA	Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1)	111.61	16.97
		<i>For Factory Installed Accessory, Deduct</i>	-33.94	
26 29 13 13-0296	EA	Terminal Block, Contactor/Starter Accessory (Square D 9999T7)	62.09	10.18
		<i>For Factory Installed Accessory, Deduct</i>	-20.36	
26 29 13 13-0297	EA	Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1)	38.28	10.18
		<i>For Factory Installed Accessory, Deduct</i>	-20.36	
26 29 13 13-0298	EA	1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39)	196.28	13.58
		<i>For Factory Installed Accessory, Deduct</i>	-27.16	
26 29 13 13-0299	EA	2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40)	338.36	16.97
		<i>For Factory Installed Accessory, Deduct</i>	-33.94	
26 29 13 13-0300	Definite Purpose Starters (26 29 13 13)			
26 29 13 13-0301	Open Enclosure, Definite Purpose Starter (26 29 13 13-0300)			
26 29 13 13-0302	EA	Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13)	652.13	162.93
		<i>For Factory Installed Accessory, Deduct</i>	-325.86	
26 29 13 13-0303	EA	Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22)	651.03	162.93
		<i>For Factory Installed Accessory, Deduct</i>	-325.86	
26 29 13 13-0304	EA	Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23)	704.56	176.51
		<i>For Factory Installed Accessory, Deduct</i>	-353.02	
26 29 13 13-0305	EA	Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32)	691.68	162.93
		<i>For Factory Installed Accessory, Deduct</i>	-325.86	
26 29 13 13-0306	EA	Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33)	751.80	176.51
		<i>For Factory Installed Accessory, Deduct</i>	-353.02	
26 29 13 13-0307	EA	Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42)	726.83	162.93
		<i>For Factory Installed Accessory, Deduct</i>	-325.86	
26 29 13 13-0308	EA	Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43)	845.66	203.66
		<i>For Factory Installed Accessory, Deduct</i>	-407.33	
26 29 13 13-0309	EA	Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52)	936.84	203.66
		<i>For Factory Installed Accessory, Deduct</i>	-407.33	
26 29 13 13-0310	EA	Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53)	1,176.10	237.60
		<i>For Factory Installed Accessory, Deduct</i>	-475.22	
26 29 13 13-0311	NEMA 1, Definite Purpose Starter (26 29 13 13-0300)			
26 29 13 13-0312	EA	NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12)	663.43	149.35
		<i>For Factory Installed Accessory, Deduct</i>	-298.71	
26 29 13 13-0313	EA	NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13)	716.95	162.93
		<i>For Factory Installed Accessory, Deduct</i>	-325.86	
26 29 13 13-0314	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22)	714.75	162.93
		<i>For Factory Installed Accessory, Deduct</i>	-325.86	
26 29 13 13-0315	EA	NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23)	771.57	176.51
		<i>For Factory Installed Accessory, Deduct</i>	-353.02	
26 29 13 13-0316	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32)	756.50	162.93
		<i>For Factory Installed Accessory, Deduct</i>	-325.86	
26 29 13 13-0317	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33)	817.71	176.51
		<i>For Factory Installed Accessory, Deduct</i>	-353.02	
26 29 13 13-0318	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42)	793.85	162.93
		<i>For Factory Installed Accessory, Deduct</i>	-325.86	
26 29 13 13-0319	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43)	911.57	203.66
		<i>For Factory Installed Accessory, Deduct</i>	-407.33	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0320 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52) <i>For Factory Installed Accessory, Deduct</i>	999.45 -407.33	203.66
26 29 13 13-0321 EA NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53) <i>For Factory Installed Accessory, Deduct</i>	1,239.82 -475.22	237.60
26 29 13 13-0322 Definite Purpose Starter Accessory (26 29 13 13-0300)		
26 29 13 13-0323 EA Start-Stop Push Button Kit, Definite Purpose Starter Accessory Note: Or Hand-Off-Auto Selector Switch Kit <i>For Factory Installed Accessory, Deduct</i>	201.81 -33.94	16.97
26 29 13 13-0324 Panel Mounted Miniature Contactor (26 29 13 13)		
26 29 13 13-0325 Non-Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)		
26 29 13 13-0326 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) 26 29 13 13-0327 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) 26 29 13 13-0328 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) 26 29 13 13-0329 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) 26 29 13 13-0330 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) 26 29 13 13-0331 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) 26 29 13 13-0332 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) 26 29 13 13-0333 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) 26 29 13 13-0334 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) 26 29 13 13-0335 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) 26 29 13 13-0336 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) 26 29 13 13-0337 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) 26 29 13 13-0338 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K) 26 29 13 13-0339 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K) 26 29 13 13-0340 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K) 26 29 13 13-0341 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K) 26 29 13 13-0342 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K) 26 29 13 13-0343 Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)	198.40 231.74 231.74 257.41 218.17 229.16 250.42 261.40 257.01 261.40 279.38 267.99 290.36 270.19 270.19 301.35 301.35 278.59 300.56 332.81 332.81	67.89 74.67 74.67 81.47 67.89 67.89 74.67 74.67 74.67 81.47 74.67 81.47 81.47 74.67 74.67 81.47 81.47 67.89 67.89 74.67 74.67



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0348 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	354.78	74.67
26 29 13 13-0349 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	372.76	81.47
26 29 13 13-0350 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	372.76	81.47
26 29 13 13-0351 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	319.24	67.89
26 29 13 13-0352 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	341.21	67.89
26 29 13 13-0353 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	371.26	74.67
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	393.23	74.67
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	417.80	81.47
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	439.77	81.47
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	359.18	74.67
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	410.81	74.67
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	463.94	81.47
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories (26 29 13 13-0324)		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02)	85.14	33.94
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40)	93.62	33.94
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	108.98	33.94
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301).....	139.53	33.94
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole (26 29 13 13)		
26 29 13 13-0366 NEMA 1 Enclosure (26 29 13 13-0365)		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	7,947.32	650.29
For NEMA 4, Add	827.39	
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	13,827.16	867.06
For NEMA 4, Add	1,511.28	
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	24,119.27	1,029.63
For NEMA 4, Add	2,758.32	
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	58,599.67	1,259.94
For NEMA 4, Add	7,011.35	
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	93,424.00	1,612.18
For NEMA 4, Add	11,274.79	
26 29 13 13-0372 NEMA 12 Enclosure (26 29 13 13-0365)		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	7,892.19	664.11
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	13,726.45	868.42
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	23,935.47	1,026.37
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	58,132.47	1,254.39
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	92,672.71	1,612.86
26 29 13 13-0378 Factory Modifications Pilot Devices (26 29 13 13-0365)		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	194.93	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	214.99	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	365.96	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	198.83	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	285.90	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	142.95	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	466.59	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0386		Factory Modifications Meters (26 29 13 13-0365)		
26 29 13 13-0387	EA	Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,875.53	
26 29 13 13-0388	EA	Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,811.50	
26 29 13 13-0389	EA	Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	640.42	
26 29 13 13-0390	EA	Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	530.66	
26 29 13 13-0391		Factory Modifications Main Circuit Breakers (26 29 13 13-0365)		
26 29 13 13-0392	EA	Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker	2,478.79	
26 29 13 13-0393	EA	Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker	4,533.40	
26 29 13 13-0394	EA	Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker	9,642.97	
26 29 13 13-0395		Factory Modifications Addition (26 29 13 13-0365)		
		Note: For reversing service auto transformer type.		
26 29 13 13-0396	EA	Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	416.29	
26 29 13 13-0397	EA	Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	416.29	
26 29 13 13-0398	EA	Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	416.29	
26 29 13 13-0399	EA	Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	416.29	
26 29 13 13-0400		Combination Starters Non-Reversing (26 29 13 13)		
26 29 13 13-0401		240-600 Volt, 3-Pole (26 29 13 13-0400)		
26 29 13 13-0402		NEMA 1 With Disconnect (Safety) Switch (26 29 13 13-0401)		
26 29 13 13-0403	EA	Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,841.33	311.59
		For Electronic Overloads, Add	230.68	
26 29 13 13-0404	EA	Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,262.55	487.72
		For Electronic Overloads, Add	243.36	
26 29 13 13-0405	EA	Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,156.95	569.01
		For Electronic Overloads, Add	385.31	
26 29 13 13-0406	EA	Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,786.74	704.48
		For Electronic Overloads, Add	641.35	
26 29 13 13-0407	EA	Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,768.82	1,124.47
		For Electronic Overloads, Add	1,237.06	
26 29 13 13-0408	EA	Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	17,440.76	1,408.97
		For Electronic Overloads, Add	2,777.48	
26 29 13 13-0409		NEMA 1 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0410	EA	Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,321.64	311.59
		For Electronic Overloads, Add	321.94	
26 29 13 13-0411	EA	Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,742.86	487.72
		For Electronic Overloads, Add	334.62	
26 29 13 13-0412	EA	Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,623.92	569.01
		For Electronic Overloads, Add	474.04	
26 29 13 13-0413	EA	Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	5,040.24	704.48
		For Electronic Overloads, Add	689.51	
26 29 13 13-0414	EA	Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	10,223.09	1,124.47
		For Electronic Overloads, Add	1,513.37	
26 29 13 13-0415	EA	Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	21,296.58	1,408.97
		For Electronic Overloads, Add	3,510.08	
26 29 13 13-0416		Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)		
26 29 13 13-0417	EA	Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	218.73	
26 29 13 13-0418	EA	H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	513.74	
26 29 13 13-0419	EA	Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	354.57	
26 29 13 13-0420		NEMA 4 With Disconnect (Safety) Switch (26 29 13 13-0401)		
26 29 13 13-0421	EA	Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,331.22	406.44
		For Electronic Overloads, Add	474.04	
26 29 13 13-0422	EA	Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,690.63	569.01
		For Electronic Overloads, Add	486.71	
26 29 13 13-0423	EA	Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,257.00	623.20
		For Electronic Overloads, Add	760.49	
26 29 13 13-0424	EA	Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,323.04	758.67
		For Electronic Overloads, Add	1,295.37	
26 29 13 13-0425	EA	Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	13,171.66	1,124.47
		For Electronic Overloads, Add	2,073.60	
26 29 13 13-0426	EA	Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	28,674.67	1,408.97
		For Electronic Overloads, Add	4,911.92	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0427		NEMA 4 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0428	EA	Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,811.53	406.44
		For Electronic Overloads, Add	565.30	
26 29 13 13-0429	EA	Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,170.94	569.01
		For Electronic Overloads, Add	577.97	
26 29 13 13-0430	EA	Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,723.97	623.20
		For Electronic Overloads, Add	849.21	
26 29 13 13-0431	EA	Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,576.53	758.67
		For Electronic Overloads, Add	1,343.53	
26 29 13 13-0432	EA	Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	14,625.93	1,124.47
		For Electronic Overloads, Add	2,349.91	
26 29 13 13-0433	EA	Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	27,167.03	1,408.97
		For Electronic Overloads, Add	4,625.47	
26 29 13 13-0434		Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)		
26 29 13 13-0435	EA	Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	218.76	
26 29 13 13-0436	EA	H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt	513.74	
26 29 13 13-0437	EA	Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	354.57	
26 29 13 13-0438		NEMA 12 With Disconnect (Safety) Switch (26 29 13 13-0401)		
26 29 13 13-0439	EA	Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,902.03	313.63
		For Electronic Overloads, Add	242.22	
26 29 13 13-0440	EA	Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,326.58	490.84
		For Electronic Overloads, Add	255.52	
26 29 13 13-0441	EA	Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,258.35	564.53
		For Electronic Overloads, Add	404.58	
26 29 13 13-0442	EA	Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,955.51	705.56
		For Electronic Overloads, Add	673.41	
26 29 13 13-0443	EA	Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	9,094.36	1,129.07
		For Electronic Overloads, Add	1,298.92	
26 29 13 13-0444	EA	Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	18,171.66	1,411.14
		For Electronic Overloads, Add	2,916.35	
26 29 13 13-0445		NEMA 12 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0446	EA	Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,475.55	313.63
		For Electronic Overloads, Add	351.18	
26 29 13 13-0447	EA	Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,902.83	490.84
		For Electronic Overloads, Add	365.01	
26 29 13 13-0448	EA	Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,850.56	564.53
		For Electronic Overloads, Add	517.10	
26 29 13 13-0449	EA	Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,369.89	705.56
		For Electronic Overloads, Add	752.15	
26 29 13 13-0450	EA	Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,946.63	1,129.07
		For Electronic Overloads, Add	1,650.85	
26 29 13 13-0451	EA	Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	22,974.73	1,411.14
		For Electronic Overloads, Add	3,828.93	
26 29 13 13-0452		Factory Modifications For NEMA 12 Enclosure (26 29 13 13-0401)		
26 29 13 13-0453	EA	Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	216.94	
26 29 13 13-0454	EA	H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	509.47	
26 29 13 13-0455	EA	Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	351.62	
26 29 13 13-0456		NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0457	EA	Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,328.62	650.29
26 29 13 13-0458	EA	Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,861.60	867.06
26 29 13 13-0459	EA	Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,423.65	1,192.21
26 29 13 13-0460	EA	Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,515.21	1,625.73
26 29 13 13-0461	EA	Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	14,302.44	2,276.02
26 29 13 13-0462		Factory Modifications For NEMA 7 Or 9 Enclosure (26 29 13 13-0401)		
26 29 13 13-0463	EA	Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,300.81	
26 29 13 13-0464	EA	H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,300.81	
26 29 13 13-0465	EA	Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,300.81	
26 29 13 13-0466		Combination Starters Reversing (26 29 13 13)		
26 29 13 13-0467		240-600 Volt, 3 Pole (26 29 13 13-0466)		
26 29 13 13-0468		NEMA 1 With Disconnect (Safety) Switch (26 29 13 13-0467)		
26 29 13 13-0469	EA	Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,283.12	406.44
26 29 13 13-0470	EA	Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,672.70	569.01
26 29 13 13-0471	EA	Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,834.83	623.20
26 29 13 13-0472	EA	Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,781.23	758.67
26 29 13 13-0473	EA	Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	11,213.49	1,124.47

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0474	NEMA 1 With Circuit Breaker (26 29 13 13-0467)			
26 29 13 13-0475	EA	Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,536.54	406.44
26 29 13 13-0476	EA	Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,943.22	569.01
26 29 13 13-0477	EA	Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,151.51	623.20
26 29 13 13-0478	EA	Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,345.24	758.67
26 29 13 13-0479	EA	Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,070.08	1,124.47
26 29 13 13-0480	NEMA 12 With Disconnect (Safety) Switch (26 29 13 13-0467)			
26 29 13 13-0481	EA	Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,430.48	418.22
26 29 13 13-0482	EA	Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,829.94	564.53
26 29 13 13-0483	EA	Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,097.66	627.26
26 29 13 13-0484	EA	Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	6,216.76	752.71
26 29 13 13-0485	EA	Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	12,125.66	1,129.07
26 29 13 13-0486	NEMA 12 With Circuit Breaker (26 29 13 13-0467)			
26 29 13 13-0487	EA	Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,709.72	418.22
26 29 13 13-0488	EA	Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,128.02	564.53
26 29 13 13-0489	EA	Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,446.60	627.26
26 29 13 13-0490	EA	Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,736.36	752.71
26 29 13 13-0491	EA	Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,069.50	1,129.07
26 29 13 13-0492	NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0467)			
26 29 13 13-0493	EA	Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,263.89	867.06
26 29 13 13-0494	EA	Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,683.69	1,083.83
26 29 13 13-0495	EA	Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	8,144.84	1,408.97
26 29 13 13-0496	EA	Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,885.63	1,842.50
26 29 13 13-0497	EA	Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	23,362.20	2,492.78
26 29 13 13-0498	Solid State Motor Controllers (26 29 13 13)			
26 29 13 13-0499	Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)			
26 29 13 13-0500	EA	0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,795.73	243.86
26 29 13 13-0501	EA	0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	2,150.35	243.86
26 29 13 13-0502	Removal And Reinstallation Of Motor Starters (26 29 13 13)			
Note: Includes storage and cleaning.				
26 29 13 13-0503	EA	Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	967.70	
26 29 13 13-0504	Auxiliary Devices (26 29 13 13)			
26 29 13 13-0505	EA	Normally Open, Auxiliary Contact	547.04	135.48
26 29 13 13-0506	EA	Normally Closed, Auxiliary Contact.....	547.04	135.48
26 29 13 13-0507	EA	Pilot Light Kit.....	574.91	135.48
26 29 23	Variable-Frequency Motor Controllers (26 29)			
26 29 23 00-0001	208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)			
Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.				
26 29 23 00-0002	EA	3/4 HP, 208/230 Volt Variable Frequency Drive	2,343.28	500.50
For 6-Pulse Drive Package, Deduct			-738.19	
26 29 23 00-0003	EA	1 HP, 208/230 Volt Variable Frequency Drive	2,634.12	547.01
For 6-Pulse Drive Package, Deduct			-849.84	
26 29 23 00-0004	EA	1-1/2 HP, 208/230 Volt Variable Frequency Drive	3,053.81	601.48
For 6-Pulse Drive Package, Deduct			-1,017.97	
26 29 23 00-0005	EA	2 HP, 208/230 Volt Variable Frequency Drive	3,206.57	578.15
For 6-Pulse Drive Package, Deduct			-1,127.65	
26 29 23 00-0006	EA	3 HP, 208/230 Volt Variable Frequency Drive	3,439.92	630.34
For 6-Pulse Drive Package, Deduct			-1,198.58	
26 29 23 00-0007	EA	5 HP, 208/230 Volt Variable Frequency Drive	3,708.59	630.34
For 6-Pulse Drive Package, Deduct			-1,346.35	
26 29 23 00-0008	EA	7.5 HP, 208/230 Volt Variable Frequency Drive	4,430.80	752.63
For 6-Pulse Drive Package, Deduct			-1,609.05	
26 29 23 00-0009	EA	10 HP, 208/230 Volt Variable Frequency Drive	4,818.89	752.63
For 6-Pulse Drive Package, Deduct			-1,822.50	
26 29 23 00-0010	EA	15 HP, 208/230 Volt Variable Frequency Drive	6,386.10	1,133.23
For 6-Pulse Drive Package, Deduct			-2,265.80	
26 29 23 00-0011	EA	20 HP, 208/230 Volt Variable Frequency Drive	7,460.80	1,133.23
For 6-Pulse Drive Package, Deduct			-2,856.89	
26 29 23 00-0012	EA	25 HP, 208/230 Volt Variable Frequency Drive	9,130.41	1,505.39
For 6-Pulse Drive Package, Deduct			-3,365.87	
26 29 23 00-0013	EA	30 HP, 208/230 Volt Variable Frequency Drive	10,473.77	1,505.39
For 6-Pulse Drive Package, Deduct			-4,104.72	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0014	EA	40 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	11,638.02 -4,745.05	1,505.39
26 29 23 00-0015	EA	50 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	15,328.94 -6,337.68	1,903.01
26 29 23 00-0016	EA	60 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	18,473.39 -7,684.03	2,251.21
26 29 23 00-0017	EA	75 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	20,861.59 -8,997.54	2,251.21
26 29 23 00-0018 460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)				
Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.				
26 29 23 00-0019	EA	3 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	5,502.73 -2,035.94	900.51
26 29 23 00-0020	EA	5 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	5,681.84 -2,134.45	900.51
26 29 23 00-0021	EA	7.5 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,235.60 -2,249.38	1,072.97
26 29 23 00-0022	EA	10 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,265.45 -2,265.80	1,072.97
26 29 23 00-0023	EA	15 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,447.67 -2,856.89	1,626.66
26 29 23 00-0024	EA	20 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,865.60 -3,086.75	1,626.66
26 29 23 00-0025	EA	25 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	10,710.05 -3,530.06	2,145.94
26 29 23 00-0026	EA	30 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	12,202.67 -4,351.00	2,145.94
26 29 23 00-0027	EA	40 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	13,755.00 -5,204.78	2,145.94
26 29 23 00-0028	EA	50 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	17,989.65 -6,895.93	2,725.86
26 29 23 00-0029	EA	60 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	23,898.92 -9,588.62	3,232.53
26 29 23 00-0030	EA	75 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	25,331.84 -10,376.73	3,232.53
26 29 23 00-0031	EA	100 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	29,294.80 -12,149.97	3,602.04
26 29 23 00-0032	EA	125 HP, 460/480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	30,847.13 -13,003.75	3,602.04
26 29 23 00-0033	EA	150 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	34,071.20 -14,776.99	3,602.04
26 29 23 00-0034	EA	200 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	39,382.83 -16,878.60	4,347.23
26 29 23 00-0035	EA	250 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	49,065.74 -21,990.78	4,541.25
26 29 23 00-0036	EA	300 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	57,517.16 -25,902.42	5,210.93
26 29 23 00-0037	EA	350 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	66,087.06 -30,131.26	5,651.41
26 29 23 00-0038	EA	400 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	76,486.59 -35,355.09	6,102.36
26 29 23 00-0039	EA	450 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	82,443.54 -38,064.86	6,617.35
26 29 33 Controllers for Fire Pump Drivers (26 29)				
26 29 33 13 Full-Service Controllers for Fire Pump Electric-Motor Drivers (26 29 33)				
26 29 33 13-0001 Electric Controllers For Fire Pumps (26 29 33 13)				
26 29 33 13-0002 Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller (26 29 33 13-0001)				
26 29 33 13-0003	EA	30 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	23,633.60	240.18

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 33 13-0004 EA 40 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	26,756.47	266.87
26 29 33 13-0005 EA 50 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	28,054.41	293.55
26 29 33 13-0006 EA 75 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	31,987.35	320.24
26 29 33 13-0007 EA 150 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	33,801.10	373.61
26 29 33 13-0008 EA 175 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	36,031.96	480.37
26 29 33 13-0009 EA 200 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	39,056.15	533.73
26 29 33 13-0010 EA 250 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	44,668.01	608.46
26 29 33 13-0011 EA 300 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	53,826.74	656.49
26 29 33 13-0012 EA 350 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	63,257.10	747.23
26 29 33 13-0013 EA 400 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	75,468.08	800.60
26 29 33 13-0014 EA 500 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	85,196.13	853.98

26 29 33 19 Controllers for Fire Pump Diesel Engine Drivers (26 29 33)

See CSI section 26 29 33 13-0000 for controllers for fire pump diesel engine drivers.

26 30 Facility Electrical Power Generating and Storing Equipment

(26)

26 31 Photovoltaic Collectors (26 30)**26 31 00 00-0001 Photovoltaic Collectors (26 31)**

26 31 00 00-0002 EA 90 Watt Solar Panel (Ameresco VLS-90T)	541.94	128.70
Note: 47.40" x 21.10" x 2"		
26 31 00 00-0003 EA 140 Watt Solar Panel (Ameresco VLS-140T)	659.81	128.70
Note: 59.20" x 26.50" x 2"		
26 31 00 00-0004 EA 1 Panel, 40 To 90 Watt, Side Of Pole Mounting (SPM) (Ameresco 1X-SPM).....	313.96	33.87
26 31 00 00-0005 EA 1 Panel, 125 To 150 Watt, Side Of Pole Mounting (SPM) (Ameresco 1X-SPM).....	345.45	33.87

26 31 00 00-0006 Rigid Photovoltaic Modules (26 31)**26 31 00 00-0007 Sanyo Rigid Photovoltaic Modules (26 31 00 00-0006)**

26 31 00 00-0008 EA 205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	2,327.50	128.70
For >25 To 50, Deduct	-168.13	
For >50 To 100, Deduct	-226.32	
For >100, Deduct	-336.26	
26 31 00 00-0009 EA 210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	2,439.71	128.70
For >25 To 50, Deduct	-176.54	
For >50 To 100, Deduct	-237.54	
For >100, Deduct	-353.09	
26 31 00 00-0010 EA 215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	2,283.48	128.70
For >25 To 50, Deduct	-164.83	
For >50 To 100, Deduct	-221.91	
For >100, Deduct	-329.65	

26 31 00 00-0011 Sharp Rigid Photovoltaic Modules (26 31 00 00-0006)

26 31 00 00-0012 EA 224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	1,822.22	128.70
For >25 To 50, Deduct	-130.23	
For >50 To 100, Deduct	-175.79	
For >100, Deduct	-260.46	
26 31 00 00-0013 EA 230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3)	2,072.69	128.70
For >25 To 50, Deduct	-149.02	
For >50 To 100, Deduct	-200.83	
For >100, Deduct	-298.03	
26 31 00 00-0014 EA 235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1)	2,112.37	128.70
For >25 To 50, Deduct	-151.99	
For >50 To 100, Deduct	-204.80	
For >100, Deduct	-303.99	
26 31 00 00-0015 EA 240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1)	1,988.37	128.70
For >25 To 50, Deduct	-142.69	
For >50 To 100, Deduct	-192.40	
For >100, Deduct	-285.39	

26 31 00 00-0016 BP Solar Rigid Photovoltaic Modules (26 31 00 00-0006)

Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.

26 31 00 00-0017 EA 50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J).....	899.57	128.70
For >25 To 50, Deduct	-61.03	
For >50 To 100, Deduct	-83.52	
For >100, Deduct	-122.07	
26 31 00 00-0018 EA 75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J).....	1,110.36	128.70
For >25 To 50, Deduct	-76.84	
For >50 To 100, Deduct	-104.60	
For >100, Deduct	-153.68	
26 31 00 00-0019 EA 80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J).....	1,194.68	128.70
For >25 To 50, Deduct	-83.17	
For >50 To 100, Deduct	-113.03	
For >100, Deduct	-166.33	



Electrical		26
Facility Electrical Power Generating and Storing Equipment		26 30
Photovoltaic Collectors		26 31

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0020 Photovoltaic Inverters (26 31)		
26 31 00 00-0021 Fronius Photovoltaic Inverters (26 31 00 00-0020)		
26 31 00 00-0022 EA 3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1)	5,543.45	135.48
26 31 00 00-0023 EA 5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1)	7,311.49	135.48
26 31 00 00-0024 EA 6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1)	7,717.70	135.48
26 31 00 00-0025 EA 7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1)	8,629.06	135.48
26 31 00 00-0026 EA 10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1)	13,662.94	135.48
26 31 00 00-0027 EA 12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1)	15,881.92	135.48
26 31 00 00-0028 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta)	12,936.06	270.95
26 31 00 00-0029 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3)	16,370.99	270.95
26 31 00 00-0030 EA Inverter Display Stand (Fronius 4,045,894)	486.88	67.74
26 31 00 00-0031 SMA Photovoltaic Inverters (26 31 00 00-0020)		
26 31 00 00-0032 EA 4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22)	4,117.31	135.48
26 31 00 00-0033 EA 5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22)	4,941.74	135.48
26 31 00 00-0034 EA 6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22)	5,710.07	135.48
26 31 00 00-0035 EA 7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22)	6,296.62	135.48
26 31 00 00-0036 EA 8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12)	6,099.04	135.48
26 31 00 00-0037 PVPowered Photovoltaic Inverters (26 31 00 00-0020)		
26 31 00 00-0038 EA 120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100)	5,094.68	135.48
26 31 00 00-0039 EA 240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000)	5,328.23	135.48
26 31 00 00-0040 EA 240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500)	5,886.78	135.48
26 31 00 00-0041 EA 240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500)	6,980.18	169.34
26 31 00 00-0042 EA 208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600)	8,510.28	203.21
26 31 00 00-0043 EA 240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800)	8,581.38	203.21
26 31 00 00-0044 EA 240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200)	9,054.60	203.21
26 31 00 00-0045 EA 208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	107,929.39	1,083.83
26 31 00 00-0046 EA 480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	108,072.22	1,083.83
26 31 00 00-0047 EA 208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	116,942.64	1,083.83
26 31 00 00-0048 EA 480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	108,413.07	1,083.83
26 31 00 00-0049 Solectria Photovoltaic Inverters (26 31 00 00-0020)		
26 31 00 00-0050 EA 208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI)	16,975.17	270.95
26 31 00 00-0051 EA 208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI)	16,975.17	270.95
26 31 00 00-0052 EA 208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI)	17,471.47	270.95
26 31 00 00-0053 EA 480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI)	17,471.47	270.95
26 31 00 00-0054 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	53,186.45	812.86
26 31 00 00-0055 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	50,704.92	812.86
26 31 00 00-0056 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	58,149.52	812.86
26 31 00 00-0057 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	56,770.89	812.86
26 31 00 00-0058 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	61,733.95	812.86
26 31 00 00-0059 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	58,976.70	812.86
26 31 00 00-0060 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	65,033.12	1,083.83
26 31 00 00-0061 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	62,000.14	1,083.83
26 31 00 00-0062 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	67,514.65	1,083.83
26 31 00 00-0063 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	63,930.22	1,083.83
26 31 00 00-0064 Xantrex Photovoltaic Inverters (26 31 00 00-0020)		
26 31 00 00-0065 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206)	710.65	33.87
26 31 00 00-0066 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210)	774.51	33.87
26 31 00 00-0067 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220)	1,243.81	33.87
26 31 00 00-0068 Photovoltaic DC-DC Converters (26 31)		
26 31 00 00-0069 EA 15 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20)	419.04	50.80
Note: Hazardous locations.		
26 31 00 00-0070 EA 20 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23)	280.16	50.80
26 31 00 00-0071 EA 60 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60)	776.14	50.80
26 31 00 00-0072 Photovoltaic Combiner Boxes (26 31)		
26 31 00 00-0073 Midnight Solar Photovoltaic Combiner Boxes (26 31 00 00-0072)		
26 31 00 00-0074 EA 3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3)	505.12	135.48
26 31 00 00-0075 EA 6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6)	492.25	135.48
26 31 00 00-0076 EA 12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12)	782.75	203.21
26 31 00 00-0077 EA 6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	787.26	203.21
26 31 00 00-0078 EA 16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16)	1,204.43	203.21
26 31 00 00-0079 SMA Photovoltaic Combiner Boxes (26 31 00 00-0072)		

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0080 EA 6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6).....	1,112.11	135.48
26 31 00 00-0081 EA 12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12)	1,331.28	135.48
26 31 00 00-0082 EA 28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28)	2,578.81	270.95
26 31 00 00-0083 EA 52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52)	5,915.70	270.95
26 31 00 00-0084 EA 4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	993.50	135.48
26 31 00 00-0085 Photovoltaic Charge Controller (26 31)		
26 31 00 00-0086 EA 35 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-35).....	334.72	50.80
26 31 00 00-0087 EA 40 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-40).....	446.32	50.80
26 31 00 00-0088 EA 60 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-60).....	520.71	50.80
26 31 00 00-0089 EA Remote Digital Meter For Xantrex C-35, 40 And 60	399.20	50.80
26 31 00 00-0090 EA MPPT Charge Controller (Xantrex XW SCC).....	1,380.27	67.74
26 31 00 00-0091 Photovoltaic Batteries (26 31)		
26 31 00 00-0092 Concorde Photovoltaic Batteries (26 31 00 00-0091)		
26 31 00 00-0093 EA 34 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T)	308.22	20.32
26 31 00 00-0094 EA 45 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T)	388.66	27.10
26 31 00 00-0095 EA 49 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T)	421.09	27.10
26 31 00 00-0096 EA 56 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T)	482.65	40.64
26 31 00 00-0097 EA 69 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T)	549.55	40.64
26 31 00 00-0098 EA 89 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T)	652.28	47.42
26 31 00 00-0099 EA 104 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T)	748.07	54.19
26 31 00 00-0100 EA 108 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T)	739.41	54.19
26 31 00 00-0101 EA 210 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T)	1,355.09	64.35
26 31 00 00-0102 EA 255 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T)	1,567.01	67.74
26 31 00 00-0103 Deka Photovoltaic Batteries (26 31 00 00-0091)		
26 31 00 00-0104 EA 31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1)	323.32	33.94
26 31 00 00-0105 EA 50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF)	444.83	33.94
26 31 00 00-0106 EA 74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24)	655.63	33.94
26 31 00 00-0107 EA 86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27)	749.86	33.94
26 31 00 00-0108 EA 98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31)	752.34	33.94
26 31 00 00-0109 EA 183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D)	1,456.63	33.94
26 31 00 00-0110 EA 225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D)	1,684.78	33.94
26 31 00 00-0111 Battery Enclosures (26 31 00 00-0091)		
26 31 00 00-0112 EA 14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010)	365.33	33.87
26 31 00 00-0113 EA 22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC)	1,786.46	33.94
26 31 00 00-0114 EA 37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL)	1,679.83	33.94
26 31 00 00-0115 EA 37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC)	2,237.80	33.94
26 31 00 00-0116 EA 15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1)	997.85	33.94
26 31 00 00-0117 EA 31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP)	2,344.44	33.94
26 31 00 00-0118 Photovoltaic System Monitoring (26 31)		
26 31 00 00-0119 EA Solar Inverter Monitor (Xantrex 864-0203)	770.83	67.74
26 31 00 00-0120 EA Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox)	1,591.02	33.87
26 31 00 00-0121 EA Sun Radiation And Temperature Monitor (SMA Sunny SensorBox)	1,329.46	33.87
26 31 00 00-0122 EA PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA)	245.85	33.87
26 31 00 00-0123 EA Wind Sensor Accessory For Sunny SensorBox (SMA)	607.36	67.74
26 31 00 00-0124 EA Sunny Boy Control with RS485 (SMA)	1,564.98	33.87
26 31 00 00-0125 EA RS 485 Module (SMA)	356.38	33.87
26 31 00 00-0126 EA RS 232 Module (SMA)	365.33	33.87
26 31 00 00-0127 EA Wireless Monitor with Bluetooth (SMA Sunny Beam)	685.29	
26 31 00 00-0128 EA Bluetooth Piggy-Back Computer Card (SMA)	370.16	33.87
26 31 00 00-0129 EA RS485-N Communication Computer Card (SMA)	367.66	33.87
26 31 00 00-0130 EA Bluetooth Repeater (SMA)	693.82	33.87
26 31 00 00-0131 EA Sunny Boy PC Service Cable (SMA)	329.53	10.16
26 31 00 00-0132 EA Integrated Revenue Grade Meter, Option (PVPowered)	6,360.94	
26 31 00 00-0133 EA Data Monitoring Module (PVPowered PVM1010)	692.36	33.87
26 31 00 00-0134 EA Wireless IG Personal Display (Fronius 4,240,108)	696.18	
26 31 00 00-0135 EA DatCom Power Supply (Fronius 43,0001,2311)	227.03	
26 31 00 00-0136 EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z)	412.39	33.87
26 31 00 00-0137 EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z)	348.91	33.87
26 31 00 00-0138 EA Datalogger Pro Box (Fronius 4,240,102)	1,370.39	33.87
26 31 00 00-0139 EA Datalogger Easy Box (Fronius 4,240,103)	891.40	33.87
26 31 00 00-0140 EA Datalogger Interface Box (Fronius 4,240,105)	1,547.14	33.87
26 31 00 00-0141 EA Datalogger Web (Fronius 4,240,122)	2,658.62	33.87
26 31 00 00-0142 EA Interface Box (Fronius 4,240,109)	714.26	33.87
26 31 00 00-0143 EA Interface Card (Fronius 4,240,009,Z)	509.62	33.87
26 31 00 00-0144 EA Interface Card Easy (Fronius 4,240,013,Z)	336.02	33.87
26 31 00 00-0145 EA Sensor Box (Fronius 4,240,104)	1,431.24	33.87
26 31 00 00-0146 EA Ambient Temperature Sensor (Fronius 43,0001,1188)	158.64	33.87
26 31 00 00-0147 EA Irradiance Sensor (Fronius 43,0001,1188)	497.02	33.87
26 31 00 00-0148 EA Module Temperature Sensor (Fronius 43,0001,1190)	553.55	33.87



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Photovoltaic Collectors	26 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0149	EA	Wind Speed Sensor (Fronius 42,0411,0027).....	292.78	67.74
26 31 00 00-0150 Photovoltaic System Accessories (26 31)				
26 31 00 00-0151	EA	Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	1,056.09	67.74
26 31 00 00-0152	EA	Line Communication Filter (Enphase LCF).....	2,301.99	135.48
26 31 00 00-0153	EA	15 Meter RS 485 Communication Cable (SMA).....	176.55	10.16
26 31 00 00-0154	EA	15 Meter RS 232 Communication Cable (SMA).....	265.83	10.16
26 31 00 00-0155	EA	24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	40.63	3.35
26 31 00 00-0156	EA	36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	43.62	3.35
26 31 00 00-0157	EA	48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	45.31	3.35
26 31 00 00-0158	EA	72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	50.00	3.35
26 31 00 00-0159	EA	120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	57.03	3.35
26 31 00 00-0160	EA	240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	90.63	6.71
26 31 00 00-0161	EA	360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	112.45	6.71
26 31 00 00-0162	EA	420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	147.66	10.06
26 31 00 00-0163	EA	36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	51.17	3.35
26 31 00 00-0164	EA	120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	71.09	3.35
26 31 00 00-0165	EA	240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	104.69	6.71
26 31 00 00-0166	EA	360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	139.84	6.71
26 31 00 00-0167	EA	600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	226.95	13.41
26 31 00 00-0168	EA	1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	236.87	13.41
26 31 00 00-0169	EA	Lighting Kit, 9 Watt Fluorescent, 12 Volt, 4.5 Ampere Hours Battery.....	4,221.41	365.79
Note: Tamper proof enclosure.				
26 31 00 00-0170 Photovoltaic Mounting Systems (26 31)				
26 31 00 00-0171	LF	Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard).....	14.47	3.39
26 31 00 00-0172	EA	Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229).....	41.65	16.93
26 31 00 00-0173	EA	Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....	52.69	16.93
26 31 00 00-0174	EA	8" x 3/8" Hanger Bolt (UNIRAC 310046).....	27.78	6.77
Note: Supports mounting rail above tile or metal roof.				
26 31 00 00-0175	EA	Mounting Rail Grounding Clip (UNIRAC 980006).....	13.24	5.09
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.				
26 31 00 00-0176	EA	Mounting Rail Grounding Lugs (UNIRAC 980012).....	28.29	6.77
Note: Two grounding lugs for each rail splice and one additional lug for each rail.				
26 31 00 00-0177	EA	Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002).....	7.59	2.27
Note: Four for each row of modules you plan to mount.				
26 31 00 00-0178	EA	Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008).....	7.95	2.27
Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.				
26 31 00 00-0179	EA	Photovoltaic Module Mount L-Feet (UNIRAC 310065).....	19.73	6.77
26 31 00 00-0180	EA	12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121).....	117.39	33.87
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.				
26 31 00 00-0181	EA	30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122).....	129.89	33.87
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.				
26 31 00 00-0182	EA	44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123).....	139.95	33.87
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.				
26 31 00 00-0183	EA	12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107).....	172.44	50.80
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.				
26 31 00 00-0184	EA	44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108).....	209.93	50.80
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.				
26 31 00 00-0185	EA	72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109).....	243.96	50.80
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.				
26 31 00 00-0186	EA	18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111).....	268.80	67.74
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.				
26 31 00 00-0187	EA	64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112).....	358.37	67.74
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.				
26 31 00 00-0188	EA	104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110).....	503.87	101.61
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.				
26 31 00 00-0189	EA	Ballasted Photovoltaic Module Frame (UNIRAC 310351).....	246.04	
Note: Excludes ballast.				
26 31 00 00-0190	EA	Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355).....	458.20	
Note: Excludes ballast.				
26 31 00 00-0191	EA	3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....	92.42	33.87
26 31 00 00-0192	EA	4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....	93.57	33.87
26 31 00 00-0193	EA	6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....	94.62	33.87
26 31 00 00-0194	EA	7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....	97.25	33.87
26 31 00 00-0195	EA	3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....	85.45	33.87
26 31 00 00-0196	EA	4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....	86.78	33.87
26 31 00 00-0197	EA	6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....	90.65	33.87
26 31 00 00-0198	EA	7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....	89.55	33.87
26 31 00 00-0199	EA	3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390).....	177.30	50.80
26 31 00 00-0200	EA	4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391).....	178.10	50.80

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0201 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394)	180.46	50.80
26 31 00 00-0202 EA Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370).....	177.99	50.80
26 31 00 00-0203 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103).....	35.36	6.77
26 31 00 00-0204 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161)	23.30	6.77
26 31 00 00-0205 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100)	44.21	10.16
26 31 00 00-0206 EA 3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100)	46.01	10.16
26 31 00 00-0207 EA Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100).....	12.84	2.27
Note: Mid or end clamp.		
26 31 00 00-0208 EA Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024)	58.57	6.77
26 31 00 00-0209 EA Photovoltaic Module Wire Clip (UNIRAC 908002S-0100).....	3.03	

26 32 Packaged Generator Assemblies (26 30)**26 32 13 Engine Generators (26 32)****26 32 13 13 Diesel-Engine-Driven Generator Sets (26 32 13)**

See CSI section 01 22 23 00-0829 for fuel reimbursement for commissioning.

26 32 13 13-0001 Diesel Generator Sets (Cummins) (26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0778 for loadbank rental, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002 EA 20 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	35,588.94	1,176.94
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Single Phase, Add	1,323.23	
For Tier 4 Diesel Generator, Add	10,732.87	
26 32 13 13-0003 EA 25 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	37,431.10	1,243.14
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Tier 4 Diesel Generator, Add	11,297.76	
26 32 13 13-0004 EA 30 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	39,302.55	1,313.02
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Single Phase, Add	1,459.13	
For Tier 4 Diesel Generator, Add	11,835.15	
26 32 13 13-0005 EA 35 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	40,115.75	1,449.10
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Tier 4 Diesel Generator, Add	11,986.29	
26 32 13 13-0006 EA 40 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	40,943.83	1,588.86
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Tier 4 Diesel Generator, Add	12,137.44	
26 32 13 13-0007 EA 50 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	48,032.58	1,824.25
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Tier 4 Diesel Generator, Add	14,422.67	
26 32 13 13-0008 EA 60 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	51,754.26	2,096.42
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.56	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Tier 4 Diesel Generator, Add	15,584.39	



Electrical		26
Facility Electrical Power Generating and Storing Equipment		26 30
Packaged Generator Assemblies		26 32

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0009 EA 80 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	60,797.81	2,456.86
For Weather Resistant Steel Diesel Generator Enclosure, Add	5,259.87	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,392.66	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,426.44	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,901.92	
For Tier 4 Diesel Generator, Add	18,438.63	
26 32 13 13-0010 EA 100 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	65,353.36	2,854.07
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	
For Tier 4 Diesel Generator, Add	17,119.97	
26 32 13 13-0011 EA 125 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	66,871.60	3,383.69
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	
For Tier 4 Diesel Generator, Add	17,272.86	
26 32 13 13-0012 EA 150 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	73,927.85	3,729.42
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	
For Tier 4 Diesel Generator, Add	19,126.83	
26 32 13 13-0013 EA 175 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	77,668.86	4,163.42
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	
For Tier 4 Diesel Generator, Add	20,162.66	
26 32 13 13-0014 EA 200 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	82,535.53	4,560.64
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	
For Tier 4 Diesel Generator, Add	21,541.20	
26 32 13 13-0015 EA 230 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	88,952.04	4,818.09
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,978.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	17,182.89	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,657.37	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	27,543.17	
For Tier 4 Diesel Generator, Add	23,478.20	
26 32 13 13-0016 EA 250 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	92,702.74	5,016.70
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
For Tier 4 Diesel Generator, Add	21,065.08	
26 32 13 13-0017 EA 275 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	100,861.25	5,288.87
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
For Tier 4 Diesel Generator, Add	23,111.26	
26 32 13 13-0018 EA 300 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	103,071.46	5,524.24
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
For Tier 4 Diesel Generator, Add	23,527.08	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0019 EA 350 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	116,148.08	6,178.92
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
For Tier 4 Diesel Generator, Add	26,877.24	
26 32 13 13-0020 EA 400 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	125,024.87	6,767.39
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
For Tier 4 Diesel Generator, Add	29,075.36	
26 32 13 13-0021 EA 450 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	141,090.85	7,289.65
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
For Tier 4 Diesel Generator, Add	33,294.01	
26 32 13 13-0022 EA 500 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	148,378.81	7,767.79
For Weather Resistant Steel Diesel Generator Enclosure, Add	51,740.04	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	57,291.24	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	76,388.32	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	62,752.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	70,031.21	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	93,374.94	
For Tier 4 Diesel Generator, Add	35,142.60	
26 32 13 13-0023 EA 600 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	215,363.85	8,554.86
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
For Tier 4 Diesel Generator, Add	48,108.95	
26 32 13 13-0024 EA 750 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	246,600.71	9,408.14
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
For Tier 4 Diesel Generator, Add	55,343.88	
26 32 13 13-0025 EA 800 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	257,494.78	9,614.10
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
For Tier 4 Diesel Generator, Add	57,912.00	
26 32 13 13-0026 EA 900 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	313,986.70	10,364.41
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
For Tier 4 Diesel Generator, Add	71,384.88	
26 32 13 13-0027 EA 1,000 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	350,742.20	11,033.78
For Weather Resistant Steel Diesel Generator Enclosure, Add	105,695.41	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	127,281.97	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	169,709.29	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	124,318.39	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	148,281.58	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	197,708.77	
For Tier 4 Diesel Generator, Add	79,582.27	
26 32 13 13-0028 Diesel Generator Sets (Generac SD) (26 32 13 13)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with 24 hour run time fuel tank, radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes startup and training. Excludes fuel, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0778 for loadbank rental, 01 22 23 00-0829 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switch.		
26 32 13 13-0029 EA 10 KW, Industrial, Diesel Generator Set (Generac SD).....	22,974.54	735.59
For Steel Weather Protective Housing, Add	3,220.96	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,964.64	
26 32 13 13-0030 EA 15 KW, Industrial, Diesel Generator Set (Generac SD).....	23,436.65	882.70
For Steel Weather Protective Housing, Add	3,220.96	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,964.64	



Electrical		26	26
Facility Electrical Power Generating and Storing Equipment		26 30	
Packaged Generator Assemblies		26 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0031 EA 20 KW, Industrial, Diesel Generator Set (Generac SD).....	24,283.87	985.68
For Steel Weather Protective Housing, Add	3,220.96	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,964.64	
26 32 13 13-0032 EA 25 KW, Industrial, Diesel Generator Set (Generac SD).....	26,092.38	1,176.94
For Steel Weather Protective Housing, Add	3,220.96	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,964.64	
26 32 13 13-0033 EA 30 KW, Industrial, Diesel Generator Set (Generac SD).....	26,691.53	1,313.02
For Steel Weather Protective Housing, Add	3,220.96	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,964.64	
26 32 13 13-0034 EA 35 KW, Industrial, Diesel Generator Set (Generac SD).....	29,590.25	1,449.10
For Steel Weather Protective Housing, Add	3,220.96	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,964.64	
26 32 13 13-0035 EA 40 KW, Industrial, Diesel Generator Set (Generac SD).....	30,105.00	1,588.86
For Steel Weather Protective Housing, Add	3,220.96	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,964.64	
26 32 13 13-0036 EA 50 KW, Industrial, Diesel Generator Set (Generac SD).....	31,186.78	1,824.25
For Steel Weather Protective Housing, Add	3,220.96	
For Level 1 Steel Weather/Sound Protective Housing, Add	5,964.64	
26 32 13 13-0037 EA 60 KW, Industrial, Diesel Generator Set (Generac SD).....	34,065.83	2,096.42
For Steel Weather Protective Housing, Add	3,904.20	
For Level 1 Steel Weather/Sound Protective Housing, Add	7,838.66	
26 32 13 13-0038 EA 80 KW, Industrial, Diesel Generator Set (Generac SD).....	41,019.75	2,456.86
For Steel Weather Protective Housing, Add	3,904.20	
For Level 1 Steel Weather/Sound Protective Housing, Add	8,452.59	
For Modular/Paralleling Unit (MD), Add	3,430.07	
26 32 13 13-0039 EA 100 KW, Industrial, Diesel Generator Set (Generac SD).....	42,849.82	2,824.65
For Steel Weather Protective Housing, Add	5,790.58	
For Level 1 Steel Weather/Sound Protective Housing, Add	10,338.97	
For Modular/Paralleling Unit (MD), Add	3,534.05	
26 32 13 13-0040 EA 135 KW, Industrial, Diesel Generator Set (Generac SD).....	53,181.56	3,457.26
For Steel Weather Protective Housing, Add	5,790.58	
For Level 1 Steel Weather/Sound Protective Housing, Add	10,689.37	
For Modular/Paralleling Unit (MD), Add	4,395.37	
26 32 13 13-0041 EA 150 KW, Industrial, Diesel Generator Set (Generac SD).....	56,048.89	3,729.42
For Steel Weather Protective Housing, Add	5,790.58	
For Level 1 Steel Weather/Sound Protective Housing, Add	10,689.37	
For Modular/Paralleling Unit (MD), Add	4,616.05	
26 32 13 13-0042 EA 180 KW, Industrial, Diesel Generator Set (Generac SD).....	63,697.16	4,229.62
For Steel Weather Protective Housing, Add	5,790.58	
For Level 1 Steel Weather/Sound Protective Housing, Add	10,689.37	
For Modular/Paralleling Unit (MD), Add	5,247.60	
26 32 13 13-0043 EA 200 KW, Industrial, Diesel Generator Set (Generac SD).....	63,753.71	4,560.64
For Steel Weather Protective Housing, Add	7,261.81	
For Level 1 Steel Weather/Sound Protective Housing, Add	12,160.61	
For Modular/Paralleling Unit (MD), Add	5,190.08	
26 32 13 13-0044 EA 230 KW, Industrial, Diesel Generator Set (Generac SD).....	76,909.45	4,818.09
For Steel Weather Protective Housing, Add	7,261.81	
For Level 1 Steel Weather/Sound Protective Housing, Add	19,553.21	
For Modular/Paralleling Unit (MD), Add	6,390.96	
26 32 13 13-0045 EA 250 KW, Industrial, Diesel Generator Set (Generac SD).....	81,792.59	5,016.70
For Steel Weather Protective Housing, Add	7,261.81	
For Level 1 Steel Weather/Sound Protective Housing, Add	19,553.21	
For Modular/Paralleling Unit (MD), Add	6,817.12	
26 32 13 13-0046 EA 275 KW, Industrial, Diesel Generator Set (Generac SD).....	84,017.35	5,288.87
For Steel Weather Protective Housing, Add	11,061.90	
For Level 1 Steel Weather/Sound Protective Housing, Add	23,353.30	
For Modular/Paralleling Unit (MD), Add	6,976.76	
26 32 13 13-0047 EA 300 KW, Industrial, Diesel Generator Set (Generac SD).....	92,035.92	5,524.24
For Steel Weather Protective Housing, Add	11,061.90	
For Level 1 Steel Weather/Sound Protective Housing, Add	23,353.30	
For Modular/Paralleling Unit (MD), Add	7,693.80	
26 32 13 13-0048 EA 350 KW, Industrial, Diesel Generator Set (Generac SD).....	99,941.42	6,178.92
For Steel Weather Protective Housing, Add	11,061.90	
For Level 1 Steel Weather/Sound Protective Housing, Add	24,030.68	
For Modular/Paralleling Unit (MD), Add	8,320.44	
26 32 13 13-0049 EA 400 KW, Industrial, Diesel Generator Set (Generac SD).....	107,369.51	6,620.27
For Steel Weather Protective Housing, Add	11,061.90	
For Level 1 Steel Weather/Sound Protective Housing, Add	24,030.68	
For Modular/Paralleling Unit (MD), Add	8,942.25	
26 32 13 13-0050 EA 500 KW, Industrial, Diesel Generator Set (Generac SD).....	119,493.68	7,767.79
For Steel Weather Protective Housing, Add	18,544.95	
For Level 1 Steel Weather/Sound Protective Housing, Add	26,427.53	
For Modular/Paralleling Unit (MD), Add	9,876.02	
26 32 13 13-0051 EA 600 KW, Industrial, Diesel Generator Set (Generac SD).....	160,615.42	8,554.86
For Steel Weather Protective Housing, Add	24,147.48	
For Level 1 Steel Weather/Sound Protective Housing, Add	37,116.25	
For Modular/Paralleling Unit (MD), Add	13,633.04	

26 32 13 13-0052 Diesel Generator Sets (Taylor) (26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0778 for loadbank rental, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0053 EA 9 KW Diesel Generator Set, 3 Phase (Taylor TD9)	25,962.87	881.82

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0054 EA 13 KW Diesel Generator Set, 3 Phase (Taylor TD13)	26,694.77	994.66
26 32 13 13-0055 EA 20 KW Diesel Generator Set, 3 Phase (Taylor TD20)	27,935.39	1,110.00
26 32 13 13-0056 EA 28 KW Diesel Generator Set, 3 Phase (Taylor TD28)	31,023.00	1,245.05
26 32 13 13-0057 EA 30 KW Diesel Generator Set, 3 Phase (Taylor TD30)	32,455.77	1,313.02
26 32 13 13-0058 EA 55 KW Diesel Generator Set, 3 Phase (Taylor TD55)	36,348.90	1,960.33
26 32 13 13-0059 EA 60 KW Diesel Generator Set, 3 Phase (Taylor TD60)	39,421.41	2,096.42
26 32 13 13-0060 EA 80 KW Diesel Generator Set, 3 Phase (Taylor TD80)	42,358.44	2,456.86
26 32 13 13-0061 EA 100 KW Diesel Generator Set, 3 Phase (Taylor TD100)	44,005.90	2,854.07
26 32 13 13-0062 EA 125 KW Diesel Generator Set, 3 Phase (Taylor TD125)	58,516.78	3,383.69
26 32 13 13-0063 EA 140 KW Diesel Generator Set, 3 Phase (Taylor TD140)	59,505.22	3,556.55
26 32 13 13-0064 EA 150 KW Diesel Generator Set, 3 Phase (Taylor TD150)	60,554.39	3,729.42
26 32 13 13-0065 EA 175 KW Diesel Generator Set, 3 Phase (Taylor TD175)	64,527.44	4,163.42
26 32 13 13-0066 EA 200 KW Diesel Generator Set, 3 Phase (Taylor TD200)	67,499.45	4,560.64
26 32 13 13-0067 EA 250 KW Diesel Generator Set, 3 Phase (Taylor TD250)	81,866.90	5,016.70
26 32 13 13-0068 EA 300 KW Diesel Generator Set, 3 Phase (Taylor TD300)	92,747.89	5,524.24
26 32 13 13-0069 EA 350 KW Diesel Generator Set, 3 Phase (Taylor TD350)	101,273.14	6,178.92
26 32 13 13-0070 EA 400 KW Diesel Generator Set, 3 Phase (Taylor TD400)	103,950.95	6,767.39
26 32 13 13-0071 EA 450 KW Diesel Generator Set, 3 Phase (Taylor TD450)	112,191.67	7,289.65
26 32 13 13-0072 EA 500 KW Diesel Generator Set, 3 Phase (Taylor TD500)	117,962.91	7,767.79
26 32 13 13-0073 EA 550 KW Diesel Generator Set, 3 Phase (Taylor TD550)	121,339.77	8,161.33
26 32 13 13-0074 EA 600 KW Diesel Generator Set, 3 Phase (Taylor TD600)	149,349.50	8,554.86
26 32 13 13-0075 Diesel Particulate Filters (26 32 13 13)		
26 32 13 13-0076 EA Up To 50 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	38,291.11	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0077 EA >50 To 75 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	50,054.07	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0078 EA >75 To 100 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	60,647.97	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0079 EA >100 To 200 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	74,395.37	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0080 EA >200 To 500 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	87,449.30	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0081 EA >500 To 1,000 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	109,242.34	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)		
26 32 13 19-0001 Natural Gas Or Propane Generator Sets (Cummins) (26 32 13 19)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0778 for loadbank rental, 01 22 23 00-0829 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0002 EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA)	15,892.37	985.68
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		
		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		
		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		
		16,503.33
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		
		5,181.36
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		
		8,596.36
26 32 13 19-0003 EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB)	17,960.10	1,176.94
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		
		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		
		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		
		16,503.33
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		
		5,181.36
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		
		8,596.36
26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC)	20,723.87	1,309.35
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		
		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		
		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		
		16,503.33
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		
		5,181.36
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		
		8,596.36
26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA)	23,504.14	1,449.10
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		
		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		
		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		
		16,503.33
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		
		14,655.99
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		
		24,599.21
26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB)	26,372.84	1,588.86
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		
		4,783.94
For Quiesite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		
		12,377.50
For Quiesite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		
		16,503.33
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		
		14,655.99
For Quiesite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		
		24,599.21



Electrical		26
Facility Electrical Power Generating and Storing Equipment		26 30
Packaged Generator Assemblies		26 32

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0007 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC).....	28,580.60	1,713.91
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,783.94	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,655.99	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0008 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE).....	31,303.27	2,096.42
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,783.94	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,655.99	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0009 EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF).....	33,604.17	2,346.52
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,783.94	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,377.50	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,503.33	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,655.99	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0010 EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG).....	44,017.47	2,508.34
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,719.01	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,182.89	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0011 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH).....	53,007.59	2,824.65
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,719.01	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,182.89	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0012 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA).....	60,734.14	3,383.69
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,719.01	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,182.89	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0013 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB).....	72,137.72	3,729.42
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,719.01	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,924.12	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	25,232.17	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,182.89	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	24,599.21	
26 32 13 19-0014 EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA).....	116,387.85	9,919.96
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB).....	132,088.10	4,479.72
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC).....	142,069.28	5,016.70
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB).....	183,580.48	5,524.24
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB).....	197,089.82	6,178.92
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	46,529.24	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	51,506.37	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	68,675.15	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	50,874.02	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	76,341.70	
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGB).....	276,675.78	7,289.65
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	101,598.39	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	107,947.53	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	143,930.04	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	115,398.19	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	163,097.66	
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB).....	353,621.14	7,767.79
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	101,598.39	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	107,947.53	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	143,930.04	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	115,398.19	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	163,097.66	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0021	EA	550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	395,610.96 101,598.39 107,947.53 143,930.04 115,398.19 163,097.66	8,187.07
26 32 13 19-0022	EA	600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	450,492.33 101,598.39 107,947.53 143,930.04 115,398.19 163,097.66	8,554.86
26 32 13 19-0023	EA	650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	471,025.17 101,598.39 107,947.53 143,930.04 115,398.19 163,097.66	8,878.52
26 32 13 19-0024	EA	725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC) For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	498,223.87 101,598.39 107,947.53 143,930.04 115,398.19 163,097.66	9,489.06
26 32 13 19-0025		Small Natural Gas Or Propane Air-Cooled Generator Sets (26 32 13 19)		
26 32 13 19-0026	EA	7.5 KW Natural Gas Or Propane Air-Cooled Generator Set Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	5,397.93	624.93
26 32 13 19-0027	EA	10 KW Natural Gas Or Propane Air-Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	6,801.60	694.36
26 32 13 19-0028	EA	14 KW Natural Gas Or Propane Air-Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	7,842.62	763.79
26 32 29		Rotary Converters (26 32)		
26 32 29 00-0001		60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output (26 32 29)		
26 32 29 00-0002	EA	3 KW, 24 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,408.15	270.95
26 32 29 00-0003	EA	5 KW, 40 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,677.63	270.95
26 32 29 00-0004	EA	7.5 KW, 60 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,794.07	270.95
26 32 29 00-0005	EA	10 KW, 80 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,926.17	270.95
26 32 29 00-0006	EA	15 KW, 120 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	18,789.12	338.69
26 32 29 00-0007	EA	20 KW, 160 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	20,348.46	338.69
26 32 29 00-0008	EA	25 KW, 200 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	21,307.37	338.69
26 32 29 00-0009	EA	40 KW, 320 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	25,946.84	447.08
26 32 29 00-0010	EA	50 KW, 400 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	28,837.73	447.08
26 32 29 00-0011		60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output (26 32 29)		
26 32 29 00-0012	EA	3 KW, 12 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,051.14	270.95
26 32 29 00-0013	EA	5 KW, 20 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,370.41	270.95
26 32 29 00-0014	EA	7.5 KW, 30 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,436.60	270.95
26 32 29 00-0015	EA	10 KW, 40 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,892.65	270.95
26 32 29 00-0016	EA	15 KW, 60 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	19,134.15	338.69
26 32 29 00-0017	EA	20 KW, 80 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	21,043.00	338.69
26 32 29 00-0018	EA	25 KW, 100 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	21,737.54	338.69
26 32 29 00-0019	EA	40 KW, 160 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	25,843.78	447.08
26 32 29 00-0020	EA	50 KW, 200 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	27,416.57	447.08
26 32 29 00-0021		460 Volt 3 Phase AC Motor Drive 250 Volt DC (26 32 29)		
26 32 29 00-0022	EA	33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	30,266.70	5,149.10
26 32 29 00-0023	EA	40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	33,554.30	5,149.10
26 32 29 00-0024	EA	50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	38,157.75	7,355.86
26 32 29 00-0025	EA	65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	44,535.76	7,355.86
26 32 29 00-0026	EA	85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	50,556.55	7,355.86
26 32 29 00-0027	EA	100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	59,338.98	11,033.78
26 32 29 00-0028	EA	125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	71,899.56	11,033.78
26 32 29 00-0029		4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC (26 32 29)		
26 32 29 00-0030	EA	170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	105,139.27	14,711.72
26 32 29 00-0031	EA	200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	114,561.78	14,711.72
26 32 29 00-0032	EA	240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	137,827.25	19,125.24
26 32 29 00-0033	EA	320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	156,670.69	23,244.51
26 32 29 00-0034	EA	400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	185,618.42	23,244.51
26 32 29 00-0035	EA	560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	263,284.60	34,719.65
26 32 29 00-0036	EA	640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	272,369.77	34,719.65
26 32 29 00-0037	EA	800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	313,655.44	40,457.22



Electrical		26	26
Facility Electrical Power Generating and Storing Equipment		26 30	
Packaged Generator Assemblies		26 32	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 36 Resistive Load Banks (26 32)			
See CSI section 01 22 23 00-0778 for portable/trailer mounted resistive load bank for testing of generators, 26 32 13 00-0000 for generators.			
26 32 36 00-0001 Stationary Resistive Load Banks (26 32 36)			
Note: Controls include: Main Power On/Off switch, Blower Start/Stop push button, Master Load On/Off switch, Individual Load Step switches. Load Voltage Selector switch (dual voltage units), and Emergency Stop button. Fault condition smart indicators provide operator display and load disconnect during Air-Flow Failure, Over-temperature, Motor Overload, Load Dump, and Wrong Voltage Applied (dual voltage units). Control Power: An Integral Control Power Transformer is provided for control circuit operation. Cooling Power: Blower motor is factory-wired to the main load bus. Cooling: Integrally mounted blower motor with high-performance, direct-driven fan blade delivers the required airflow volume (CFM) for cooling resistor load elements. Motor circuits are short-circuit protected by current-limiting fuses and thermally protected by overload relay. Safety Features: Emergency-Stop push button allows the operator to take the unit off-line should a critical hard-stop condition occur. Branch circuit fuse protection provides short-circuit fault protection of all load steps eliminating the potential for catastrophic failure. Blower On, Motor Overload, Air-Flow Failure, and Over-temperature circuits disable all load steps during a fault condition with operator visual indicators. Dual Voltage units feature a Wrong Voltage Applied protection circuit which prevents the application of 480 VAC with the Load Voltage Selector switch in the 240 VAC position.			
26 32 36 00-0002	EA 100 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	11,885.73	812.86
26 32 36 00-0003	EA 150 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	12,771.07	902.62
26 32 36 00-0004	EA 200 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Permanent Resistive Load Bank	13,561.60	934.79
26 32 36 00-0005	EA 250 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	14,349.40	970.70
26 32 36 00-0006	EA 300 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	15,766.07	1,023.54
26 32 36 00-0007	EA 400 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	17,182.74	1,076.37
26 32 36 00-0008	EA 500 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	24,792.28	1,146.14
26 32 36 00-0009	EA 600 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	30,581.50	1,205.75
26 32 36 00-0010	EA 750 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	33,722.01	1,264.01
26 32 36 00-0011	EA 800 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	33,971.29	1,388.65
26 32 36 00-0012	EA 1,000 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	44,710.21	1,512.61
26 32 36 00-0013	EA 1,250 KW, NEMA 3R, Galvanized Steel Enclosure, Wall Mounted, Stationary Resistive Load Bank	58,722.42	1,761.21
26 32 36 00-0014	EA 1,500 KW, NEMA 3R, Galvanized Steel Enclosure, Pad/Floor Mounted, Stationary Resistive Load Bank	72,068.70	2,691.86
26 32 36 00-0015	EA 2,000 KW, NEMA 3R, Galvanized Steel Enclosure, Pad/Floor Mounted, Stationary Resistive Load Bank	80,710.45	3,230.22
26 32 36 00-0016	EA 2,500 KW, NEMA 3R, Galvanized Steel Enclosure, Pad/Floor Mounted, Stationary Resistive Load Bank	89,445.70	3,472.84
26 32 36 00-0017	EA 3,000 KW, NEMA 3R, Galvanized Steel Enclosure, Pad/Floor Mounted, Stationary Resistive Load Bank	97,537.19	3,768.59
26 32 36 00-0018 Load Bank Docking Stations (26 32 36)			
26 32 36 00-0019	EA 100 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Wall Mounted, Load Bank Docking Station	6,396.24	541.91
26 32 36 00-0020	EA 200 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Wall Mounted, Load Bank Docking Station	7,672.24	677.39
26 32 36 00-0021	EA 250 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Wall Mounted, Load Bank Docking Station	9,478.00	812.86
26 32 36 00-0022	EA 400 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Wall Mounted, Load Bank Docking Station	12,051.17	948.34
26 32 36 00-0023	EA 500 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Wall Mounted, Load Bank Docking Station	12,569.31	1,083.83
26 32 36 00-0024	EA 600 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Wall Mounted, Load Bank Docking Station	13,087.45	1,219.30
26 32 36 00-0025	EA 800 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Wall Mounted, Load Bank Docking Station	15,688.64	1,354.78
26 32 36 00-0026	EA 1,000 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	26,917.56	1,866.35
26 32 36 00-0027	EA 1,200 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	30,606.62	2,009.92
26 32 36 00-0028	EA 1,600 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	34,149.28	2,153.48
26 32 36 00-0029	EA 2,000 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	41,218.75	2,297.05
26 32 36 00-0030	EA 2,400 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	46,939.68	2,512.40
26 32 36 00-0031	EA 2,800 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	54,966.59	2,727.74
26 32 36 00-0032	EA 3,000 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	64,803.04	2,943.10
26 32 36 00-0033	EA 3,200 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	66,590.21	3,158.44
26 32 36 00-0034	EA 3,600 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	68,520.94	3,445.57
26 32 36 00-0035	EA 4,000 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station	75,877.55	3,732.70
26 32 36 00-0036	EA 100 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Wall Mounted, Load Bank Docking Station	8,897.29	541.91
26 32 36 00-0037	EA 200 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Wall Mounted, Load Bank Docking Station	10,047.66	677.39
26 32 36 00-0038	EA 250 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Wall Mounted, Load Bank Docking Station	11,661.56	812.86
26 32 36 00-0039	EA 400 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Wall Mounted, Load Bank Docking Station	13,946.94	948.34
26 32 36 00-0040	EA 500 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Wall Mounted, Load Bank Docking Station	14,434.19	1,083.83
26 32 36 00-0041	EA 600 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Wall Mounted, Load Bank Docking Station	14,921.43	1,219.30

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 36 00-0042	EA	800 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Wall Mounted, Load Bank Docking Station	17,231.35	1,354.78
26 32 36 00-0043	EA	1,000 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	59,255.20	1,866.35
26 32 36 00-0044	EA	1,200 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	73,209.23	2,009.92
26 32 36 00-0045	EA	1,600 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	74,988.49	2,153.48
26 32 36 00-0046	EA	2,000 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	76,767.72	2,297.05
26 32 36 00-0047	EA	2,400 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	78,690.54	2,512.40
26 32 36 00-0048	EA	2,800 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	87,274.15	2,727.74
26 32 36 00-0049	EA	3,000 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	89,196.96	2,943.10
26 32 36 00-0050	EA	3,200 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	91,119.78	3,158.44
26 32 36 00-0051	EA	3,600 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	93,186.16	3,445.57
26 32 36 00-0052	EA	4,000 AMP, 3-Pole Molded Case Breaker With Electronic Trip, NEMA 3R Stainless Steel Enclosure, Pad/Floor Mounted, Load Bank Docking Station.....	95,252.54	3,732.70

26 33 Battery Equipment (26 30)**26 33 13 Batteries** (26 33)**26 33 13 00-0001 Standby Batteries** (26 33 13)

26 33 13 00-0002	EA	12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery	1,274.98	33.94
26 33 13 00-0003	EA	12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket.....	1,377.28	33.94
26 33 13 00-0004	EA	725CCA, Group 31, 12 Volt Lead Calcium Standby Battery	375.02	33.94
26 33 13 00-0005	EA	810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	341.24	33.94
26 33 13 00-0006	EA	1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	582.10	33.94
26 33 13 00-0007	EA	1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	675.43	33.94

26 33 43 Battery Chargers (26 33)**26 33 43 00-0001 Solid State Chargers, Single Phase** (26 33 43)

Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.

26 33 43 00-0002	EA	Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	3,656.28	773.75
26 33 43 00-0003	EA	Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	4,267.05	773.75
26 33 43 00-0004	EA	Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	4,697.14	773.75
26 33 43 00-0005	EA	Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	4,970.42	916.12

26 33 53 Static Uninterruptible Power Supply (26 33)**26 33 53 00-0001 Single Phase, Uninterruptible Power Supply Systems (UPS)** (26 33 53)**26 33 53 00-0002 Single Phase, Uninterruptible Power Supply Systems (UPS)** (26 33 53 00-0001)**26 33 53 00-0003 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS)** (26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

26 33 53 00-0004	EA	0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120).....	1,259.81	134.12
Note: Includes 12 minutes of battery backup at full load.				
26 33 53 00-0005	EA	0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120).....	1,504.41	156.47
Note: Includes 6 minutes of battery backup at full load.				
26 33 53 00-0006	EA	1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120).....	1,852.64	178.83
Note: Includes 5 minutes of battery backup at full load.				
26 33 53 00-0007	EA	1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120).....	2,261.13	201.19
Note: Includes 5 minutes of battery backup at full load.				
26 33 53 00-0008	EA	2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120).....	2,897.37	223.54
Note: Includes 4 minutes of battery backup at full load.				
26 33 53 00-0009	EA	3 kVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120).....	4,655.51	268.25
Note: Includes 4 minutes of battery backup at full load.				

26 33 53 00-0010 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.



Electrical		26	26
Facility Electrical Power Generating and Storing Equipment		26 30	
Battery Equipment		26 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0011 EA 3 KVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208) Note: Includes 4 minutes of battery backup at full load.	4,570.38	268.25
26 33 53 00-0012 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002) Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0013 EA 5 KVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208) Note: Includes 5 minutes of battery backup at full load.	7,043.65	357.66
26 33 53 00-0014 EA 6 KVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208) Note: Includes 4 minutes of battery backup at full load.	7,704.09	402.37
26 33 53 00-0015 EA 8 KVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208) Note: Includes 7 minutes of battery backup at full load.	11,506.82	491.79
26 33 53 00-0016 EA 10 KVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208) Note: Includes 4-1/2 minutes of battery backup at full load.	13,223.81	536.49
26 33 53 00-0017 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002) Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018 EA 0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230) Note: Includes 11 minutes of battery backup at full load.	1,504.41	156.47
26 33 53 00-0019 EA 1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230) Note: Includes 6 minutes of battery backup at full load.	1,852.64	178.83
26 33 53 00-0020 EA 1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230) Note: Includes 4 minutes of battery backup at full load.	2,286.28	201.19
26 33 53 00-0021 EA 2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230) Note: Includes 4 minutes of battery backup at full load.	2,903.44	223.54
26 33 53 00-0022 EA 3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230) Note: Includes 4 minutes of battery backup at full load.	4,674.40	268.25
26 33 53 00-0023 EA 5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230) Note: Includes 9 minutes of battery backup at full load.	6,759.36	357.66
26 33 53 00-0024 EA 6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230) Note: Includes 6 minutes of battery backup at full load.	8,295.14	402.37
26 33 53 00-0025 EA 10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230) Note: Includes 3 minutes of battery backup at full load.	12,817.42	536.49
26 33 53 00-0026 Optional Accessories For Single Phase, Uninterruptible Power Supply Systems (26 33 53 00-0001)		
26 33 53 00-0027 EA External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT) Note: Rack mount or tower configuration.	828.27	40.64
26 33 53 00-0028 EA External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT) Note: Rack mount or tower configuration.	1,083.99	40.64
26 33 53 00-0029 EA External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT) Note: Rack mount or tower configuration.	1,055.52	40.64
26 33 53 00-0030 EA External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT) Note: Rack mount or tower configuration.	718.11	40.64
26 33 53 00-0031 EA Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT) Note: Rack mount or tower configuration.	1,072.77	134.12
26 33 53 00-0032 EA Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT) Note: Rack mount or tower configuration.	1,208.24	178.83
26 33 53 00-0033 Three Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)		
26 33 53 00-0034 208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery (26 33 53 00-0033) Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.		
26 33 53 00-0035 EA 10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS) Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.	44,269.80	536.49
26 33 53 00-0036 EA 15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS) Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.	49,034.92	715.32

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0037	EA	20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	54,830.09	894.15
26 33 53 00-0038	EA	30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	59,492.20	1,072.98
26 33 53 00-0039	EA	40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	71,570.66	1,251.81
26 33 53 00-0040		208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (26 33 53 00-0033) Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0041	EA	60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	97,516.87	2,261.16
26 33 53 00-0042	EA	80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	106,226.78	2,799.52
26 33 53 00-0043	EA	100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	117,550.91	3,266.12
26 33 53 00-0044	EA	120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	144,947.04	3,696.81
26 33 53 00-0045	EA	140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	150,605.89	4,127.51
26 33 53 00-0046	EA	160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	156,517.74	4,558.21
26 33 53 00-0047	EA	180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	163,665.65	4,988.90
26 33 53 00-0048	EA	200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	170,813.55	5,419.60
26 33 53 00-0049		480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (26 33 53 00-0033) Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0050	EA	50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	90,994.86	1,866.35
26 33 53 00-0051	EA	100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	118,168.94	3,280.47
26 33 53 00-0052	EA	150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	161,254.51	3,790.13
26 33 53 00-0053	EA	200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	189,783.69	4,163.39
26 33 53 00-0054	EA	250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	221,815.03	4,594.09
26 33 53 00-0055		Optional Accessories For Three Phase, Uninterruptible Power Supply Systems (26 33 53 00-0033)		
26 33 53 00-0056	EA	Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	741.13	67.74
26 33 53 00-0057	EA	Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	1,189.79	67.74
26 33 53 00-0058	EA	Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	2,294.48	135.48
26 33 53 00-0059	EA	Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	7,158.70	541.91
26 33 53 00-0060	EA	12 Volt, 491 Watt, 3 Phase, 134 Ampere Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	673.82	67.74
26 33 53 00-0061	EA	12 Volt, 204 Watt, 3 Phase, 55 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	368.21	67.74
26 33 53 00-0062	EA	12 Volt, 257 Watt, 3 Phase, 65 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	412.80	67.74
26 33 53 00-0063	EA	12 Volt, 311 Watt, 3 Phase, 75 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	457.40	67.74
26 33 53 00-0064	EA	12 Volt, 374 Watt, 3 Phase, 90 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	537.67	67.74
26 33 53 00-0065	EA	12 Volt, 415 Watt, 3 Phase, 100 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	564.43	67.74
26 33 53 00-0066	EA	12 Volt, 493 Watt, 3 Phase, 135 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	702.68	67.74
26 33 53 00-0067	EA	12 Volt, 540 Watt, 3 Phase, 150 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	736.12	67.74
26 33 53 00-0068		Other Uninterruptable Power Supply Equipment (26 33 53)		
26 33 53 00-0069	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	6,597.29	123.80
26 33 53 00-0070	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	7,939.66	247.60
26 33 53 00-0071	EA	1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	34.57	7.43
26 33 53 00-0072	EA	2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	62.36	9.28
26 33 53 00-0073	EA	2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	117.10	9.28
26 33 53 00-0074	EA	3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	171.46	12.38
26 33 53 00-0075	EA	3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	243.71	12.38
26 33 53 00-0076	EA	Uninterrupted Power Supply Remote Status Panel.....	4,517.22	123.80
26 33 53 00-0077	EA	Uninterrupted Power Supply Remote Contact Board.....	1,499.41	92.85

26 35 Power Filters and Conditioners (26 30)



Electrical		26	26
Facility Electrical Power Generating and Storing Equipment		26 30	
Power Filters and Conditioners		26 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 35 33 Power Factor Correction Equipment (26 35)

26 35 33 16 Low-Voltage Power Factor Correction Equipment (26 35 33)

26 35 33 16-0001 Power Factor Correction Capacitors (26 35 33 16)

26 35 33 16-0002	EA	Power Factor Correction Capacitors, 2.0 KVAC	1,500.01	
26 35 33 16-0003	EA	Power Factor Correction Capacitors, 3.0 KVAC	1,661.30	
26 35 33 16-0004	EA	Power Factor Correction Capacitors, 4.0 KVAC	1,822.60	
26 35 33 16-0005	EA	Power Factor Correction Capacitors, 5.0 KVAC	1,977.44	
26 35 33 16-0006	EA	Power Factor Correction Capacitors, 7.5 KVAC	2,429.05	
26 35 33 16-0007	EA	Power Factor Correction Capacitors, 10.0 KVAC	2,967.77	
26 35 33 16-0008	EA	Power Factor Correction Capacitors, 15.0 KVAC	4,583.91	
26 35 33 16-0009	EA	Power Factor Correction Capacitors, 20.0 KVAC	5,567.79	
26 35 33 16-0010	EA	Power Factor Correction Capacitors, 25.0 KVAC	7,193.61	
26 35 33 16-0011	EA	Power Factor Correction Capacitors, 30.0 KVAC	8,180.71	
26 35 33 16-0012	EA	Power Factor Correction Capacitors, 50.0 KVAC	14,354.96	
26 35 33 16-0013	EA	Power Factor Correction Capacitors, 75.0 KVAC	21,584.05	
26 35 33 16-0014	EA	Power Factor Correction Capacitors, 100.0 KVAC	28,780.89	
26 35 33 16-0015	EA	Power Factor Correction Capacitors, Fuse Kit.....	1,335.50	

26 35 43 Static-Frequency Converters (26 35)

26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)

26 35 43 00-0002	EA	750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure	769.02	135.48
26 35 43 00-0003	EA	2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,336.13	162.57
26 35 43 00-0004	EA	3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,532.34	216.76
26 35 43 00-0005	EA	5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,103.01	270.95
26 35 43 00-0006	EA	7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,895.27	352.24
26 35 43 00-0007	EA	11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,740.01	433.53
26 35 43 00-0008	EA	15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,689.69	514.82
26 35 43 00-0009	EA	21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	5,717.23	582.56
26 35 43 00-0010	EA	29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	6,643.25	704.48
26 35 43 00-0011	EA	36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	7,606.48	792.54
26 35 43 00-0012	EA	44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	8,569.70	880.60
26 35 43 00-0013	EA	55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	10,640.91	1,063.49
26 35 43 00-0014	EA	74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	13,829.33	1,280.27
26 35 43 00-0015	EA	87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	17,533.20	1,557.99
26 35 43 00-0016	EA	110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	20,055.58	1,822.18
26 35 43 00-0017	EA	125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	25,827.94	2,032.17
26 35 43 00-0018	EA	165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	39,488.35	2,303.12
26 35 43 00-0019	EA	220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	58,920.92	2,574.08

26 35 53 Voltage Regulators (26 35)

26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)

Note: For diesel motor generator sets mounted in switchgear cabinet.

26 35 53 00-0002	EA	50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	7,876.47	2,154.10
26 35 53 00-0003	EA	75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	8,997.43	2,709.56
26 35 53 00-0004	EA	100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	10,029.64	3,224.36

26 36 Transfer Switches (26 36)

26 36 13 Manual Transfer Switches (26 36)

26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)

26 36 13 00-0002	EA	30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,492.38	237.08
26 36 13 00-0003	EA	60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,739.96	294.52

26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure

26 36 13 00-0005	EA	40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	3,728.12	347.18
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0006	EA	70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	4,129.67	416.61
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0007	EA	125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	4,687.03	486.05
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0008	EA	150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	5,820.89	555.48
		For NEMA 3R Enclosure, Add	1,404.54	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0009	EA	225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	7,206.60	624.93
		For NEMA 3R Enclosure, Add	1,404.54	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0010	EA	260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	8,102.63	694.36
		For NEMA 3R Enclosure, Add	1,404.54	
		For NEMA 12 Enclosure, Add	1,123.62	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 13 00-0011 EA 300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	9,012.82	763.79
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0012 EA 400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	10,583.58	833.23
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0013 EA 600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	13,999.18	1,041.54
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0014 EA 800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	15,747.25	1,249.84
For NEMA 3R Enclosure, Add	2,036.56	
For NEMA 12 Enclosure, Add	1,966.35	
26 36 13 00-0015 EA 1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	21,000.65	1,765.41
For NEMA 3R Enclosure, Add	2,036.56	
For NEMA 12 Enclosure, Add	1,966.35	

26 36 23 Automatic Transfer Switches (26 36)

26 36 23 00-0001 Automatic Transfer Switch (26 36 23)

26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23)

00-0001)

Note: Programmable, 120/240 volt single phase, 3 wire.

26 36 23 00-0003 EA 100 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	3,362.58	486.05
For Level 2 Controller, Add	185.26	
For Level 3 Controller, Add	382.48	
For Level 4 Controller, Add	555.79	
26 36 23 00-0004 EA 225 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	4,575.74	624.93
For Level 2 Controller, Add	257.76	
For Level 3 Controller, Add	532.14	
For Level 4 Controller, Add	773.27	
26 36 23 00-0005 EA 400 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	7,278.93	833.23
For Level 2 Controller, Add	434.97	
For Level 3 Controller, Add	898.00	
For Level 4 Controller, Add	1,304.90	
26 36 23 00-0006 EA 600 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	11,848.80	1,041.54
For Level 2 Controller, Add	756.84	
For Level 3 Controller, Add	1,562.52	
For Level 4 Controller, Add	2,270.53	

26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23)

00-0001)

26 36 23 00-0008 EA 40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40).....	5,564.34	347.18
For Level 2 Controller, Add	377.42	
For Level 3 Controller, Add	779.20	
For Level 4 Controller, Add	1,132.27	
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 4 Enclosure, Add	1,264.08	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0009 EA 70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70).....	6,423.00	416.61
For Level 2 Controller, Add	433.21	
For Level 3 Controller, Add	894.36	
For Level 4 Controller, Add	1,299.62	
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 4 Enclosure, Add	1,264.08	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0010 EA 100 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC100).....	6,740.95	451.34
For Level 2 Controller, Add	452.47	
For Level 3 Controller, Add	934.13	
For Level 4 Controller, Add	1,357.40	
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 4 Enclosure, Add	1,264.08	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0011 EA 125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125).....	7,058.91	486.05
For Level 2 Controller, Add	471.73	
For Level 3 Controller, Add	973.89	
For Level 4 Controller, Add	1,415.18	
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 4 Enclosure, Add	1,264.08	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0012 EA 150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150).....	8,399.18	555.48
For Level 2 Controller, Add	564.84	
For Level 3 Controller, Add	1,166.11	
For Level 4 Controller, Add	1,694.51	
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 4 Enclosure, Add	1,825.89	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0013 EA 225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225).....	9,591.37	624.93
For Level 2 Controller, Add	646.47	
For Level 3 Controller, Add	1,334.64	
For Level 4 Controller, Add	1,939.41	
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 4 Enclosure, Add	1,825.89	
For NEMA 12 Enclosure, Add	1,264.08	



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Transfer Switches	26 36	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0014	EA		260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260)	10,583.97	694.36
			For Level 2 Controller, Add	712.63	
			For Level 3 Controller, Add	1,471.24	
			For Level 4 Controller, Add	2,137.90	
			For NEMA 3R Enclosure, Add	1,404.54	
			For NEMA 4 Enclosure, Add	1,825.89	
			For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0015	EA		300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300)	11,056.35	763.79
			For Level 2 Controller, Add	738.48	
			For Level 3 Controller, Add	1,524.60	
			For Level 4 Controller, Add	2,215.44	
			For NEMA 3R Enclosure, Add	1,657.35	
			For NEMA 4 Enclosure, Add	1,966.35	
			For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0016	EA		400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400)	12,506.07	833.23
			For Level 2 Controller, Add	840.07	
			For Level 3 Controller, Add	1,734.34	
			For Level 4 Controller, Add	2,520.21	
			For NEMA 3R Enclosure, Add	1,657.35	
			For NEMA 4 Enclosure, Add	1,966.35	
			For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0017	EA		600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600)	17,146.24	1,041.54
			For Level 2 Controller, Add	1,167.40	
			For Level 3 Controller, Add	2,410.11	
			For Level 4 Controller, Add	3,502.19	
			For NEMA 3R Enclosure, Add	1,657.35	
			For NEMA 4 Enclosure, Add	1,966.35	
			For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0018	EA		800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800)	19,222.67	1,249.84
			For Level 2 Controller, Add	1,296.03	
			For Level 3 Controller, Add	2,675.68	
			For Level 4 Controller, Add	3,888.09	
			For NEMA 3R Enclosure, Add	2,036.56	
			For NEMA 4 Enclosure, Add	2,247.26	
			For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0019	EA		1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000)	25,063.24	1,765.41
			For Level 2 Controller, Add	1,668.76	
			For Level 3 Controller, Add	3,445.19	
			For Level 4 Controller, Add	5,006.29	
			For NEMA 3R Enclosure, Add	2,036.56	
			For NEMA 4 Enclosure, Add	2,247.26	
			For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0020	EA		1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200)	32,557.96	1,912.52
			For Level 2 Controller, Add	2,226.80	
			For Level 3 Controller, Add	4,597.27	
			For Level 4 Controller, Add	6,680.40	
			For NEMA 3R Enclosure, Add	4,494.50	
			For NEMA 4 Enclosure, Add	2,528.16	
			For NEMA 12 Enclosure, Add	2,106.80	
26 36 23 00-0021	EA		1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600)	34,698.09	2,206.75
			For Level 2 Controller, Add	2,347.05	
			For Level 3 Controller, Add	4,845.53	
			For Level 4 Controller, Add	7,041.16	
			For NEMA 3R Enclosure, Add	7,303.55	
			For NEMA 4 Enclosure, Add	8,988.98	
			For NEMA 12 Enclosure, Add	7,303.55	
26 36 23 00-0022	EA		2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000)	39,674.70	2,501.00
			For Level 2 Controller, Add	2,687.14	
			For Level 3 Controller, Add	5,547.64	
			For Level 4 Controller, Add	8,061.41	
			For NEMA 3R Enclosure, Add	7,303.55	
			For NEMA 4 Enclosure, Add	8,988.98	
			For NEMA 12 Enclosure, Add	7,303.55	
26 36 23 00-0023	EA		3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000)	47,911.57	3,089.46
			For Level 2 Controller, Add	3,234.28	
			For Level 3 Controller, Add	6,677.22	
			For Level 4 Controller, Add	9,702.84	
			For NEMA 3R Enclosure, Add	7,303.55	
26 36 23 00-0024	EA		4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000)	83,292.85	3,677.93
			For Level 2 Controller, Add	5,885.12	
			For Level 3 Controller, Add	12,149.92	
			For Level 4 Controller, Add	17,655.35	
			For NEMA 3R Enclosure, Add	13,539.65	
26 36 23 00-0025			Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0026	EA		150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150).....	27,599.95	2,638.56
			For NEMA 3R Enclosure, Add	2,457.94	
			For NEMA 4 Enclosure, Add	2,528.16	
			For NEMA 12 Enclosure, Add	1,334.32	
			For Level 2 Controller, Add	1,730.02	
			For Level 3 Controller, Add	3,571.65	
			For Level 4 Controller, Add	5,190.06	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0027 EA 225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225).....	28,807.63	2,777.43
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	1,802.09	
For Level 3 Controller, Add	3,720.44	
For Level 4 Controller, Add	5,406.27	
26 36 23 00-0028 EA 260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260).....	30,198.01	2,916.30
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	1,888.32	
For Level 3 Controller, Add	3,898.46	
For Level 4 Controller, Add	5,664.96	
26 36 23 00-0029 EA 300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....	33,747.61	2,985.74
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	2,152.65	
For Level 3 Controller, Add	4,444.18	
For Level 4 Controller, Add	6,457.95	
26 36 23 00-0030 EA 400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....	39,012.85	3,055.18
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	2,549.94	
For Level 3 Controller, Add	5,264.40	
For Level 4 Controller, Add	7,649.83	
26 36 23 00-0031 EA 600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....	46,919.71	3,194.05
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,404.54	
For Level 2 Controller, Add	3,141.20	
For Level 3 Controller, Add	6,485.06	
For Level 4 Controller, Add	9,423.60	
26 36 23 00-0032 EA 800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	51,755.15	3,332.91
For NEMA 3R Enclosure, Add	2,528.16	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,544.99	
For Level 2 Controller, Add	3,494.42	
For Level 3 Controller, Add	7,214.29	
For Level 4 Controller, Add	10,483.26	
26 36 23 00-0033 EA 1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	65,079.04	3,888.41
For NEMA 3R Enclosure, Add	2,528.16	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,544.99	
For Level 2 Controller, Add	4,440.92	
For Level 3 Controller, Add	9,168.36	
For Level 4 Controller, Add	13,322.77	
26 36 23 00-0034 EA 1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	85,539.37	4,413.51
For NEMA 3R Enclosure, Add	11,236.23	
For NEMA 4 Enclosure, Add	14,045.28	
For NEMA 12 Enclosure, Add	11,236.23	
For Level 2 Controller, Add	5,945.21	
For Level 3 Controller, Add	12,273.97	
For Level 4 Controller, Add	17,835.62	
26 36 23 00-0035 EA 1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	111,743.33	4,707.75
For NEMA 3R Enclosure, Add	23,876.97	
For NEMA 4 Enclosure, Add	23,876.97	
For NEMA 12 Enclosure, Add	22,247.72	
For Level 2 Controller, Add	7,930.41	
For Level 3 Controller, Add	16,372.45	
For Level 4 Controller, Add	23,791.22	
26 36 23 00-0036 EA 2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	126,907.54	5,149.10
For NEMA 3R Enclosure, Add	23,876.97	
For NEMA 4 Enclosure, Add	23,876.97	
For NEMA 12 Enclosure, Add	22,247.72	
For Level 2 Controller, Add	9,037.22	
For Level 3 Controller, Add	18,657.49	
For Level 4 Controller, Add	27,111.67	
26 36 23 00-0037 EA 3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	203,293.33	5,884.69
For NEMA 3R Enclosure, Add	29,495.07	
For Level 2 Controller, Add	14,843.11	
For Level 3 Controller, Add	30,643.83	
For Level 4 Controller, Add	44,529.32	
26 36 23 00-0038 EA 4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	219,396.40	6,620.27
For NEMA 3R Enclosure, Add	29,495.07	
For Level 2 Controller, Add	15,977.08	
For Level 3 Controller, Add	32,984.94	
For Level 4 Controller, Add	47,931.24	



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Transfer Switches	26 36	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 36 23 00-0039	Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)			
26 36 23 00-0040	EA 40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	9,108.00		347.18
	For Level 2 Controller, Add	652.06		
	For Level 3 Controller, Add	1,346.18		
	For Level 4 Controller, Add	1,956.17		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0041	EA 70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	9,844.35		416.61
	For Level 2 Controller, Add	698.36		
	For Level 3 Controller, Add	1,441.78		
	For Level 4 Controller, Add	2,095.09		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0042	EA 100 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE100).....	10,211.88		451.34
	For Level 2 Controller, Add	721.46		
	For Level 3 Controller, Add	1,489.48		
	For Level 4 Controller, Add	2,164.39		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0043	EA 125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	10,579.41		486.05
	For Level 2 Controller, Add	744.57		
	For Level 3 Controller, Add	1,537.17		
	For Level 4 Controller, Add	2,233.70		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0044	EA 150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	12,709.01		555.48
	For Level 2 Controller, Add	898.85		
	For Level 3 Controller, Add	1,855.69		
	For Level 4 Controller, Add	2,696.54		
	For Four Pole Circuit Breaker, Add	3,511.32		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0045	EA 225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	16,561.52		624.93
	For Level 2 Controller, Add	1,186.66		
	For Level 3 Controller, Add	2,449.87		
	For Level 4 Controller, Add	3,559.97		
	For Four Pole Circuit Breaker, Add	3,511.32		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0046	EA 250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	17,628.81		694.36
	For Level 2 Controller, Add	1,258.61		
	For Level 3 Controller, Add	2,598.41		
	For Level 4 Controller, Add	3,775.82		
	For Four Pole Circuit Breaker, Add	3,511.32		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0047	EA 300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	18,327.83		763.79
	For Level 2 Controller, Add	1,302.02		
	For Level 3 Controller, Add	2,688.04		
	For Level 4 Controller, Add	3,906.06		
	For Four Pole Circuit Breaker, Add	4,775.40		
	For NEMA 3R Enclosure, Add	1,825.89		
	For NEMA 12 Enclosure, Add	1,404.54		
26 36 23 00-0048	EA 400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	20,744.58		833.23
	For Level 2 Controller, Add	1,478.55		
	For Level 3 Controller, Add	3,052.50		
	For Level 4 Controller, Add	4,435.66		
	For Four Pole Circuit Breaker, Add	4,775.40		
	For NEMA 3R Enclosure, Add	1,825.89		
	For NEMA 12 Enclosure, Add	1,404.54		
26 36 23 00-0049	EA 600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	25,167.14		1,041.54
	For Level 2 Controller, Add	1,789.02		
	For Level 3 Controller, Add	3,693.45		
	For Level 4 Controller, Add	5,367.05		
	For Four Pole Circuit Breaker, Add	4,775.40		
	For NEMA 3R Enclosure, Add	1,825.89		
	For NEMA 12 Enclosure, Add	1,404.54		

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0050 EA 800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	26,196.68	1,249.84
For Level 2 Controller, Add	1,836.52	
For Level 3 Controller, Add	3,791.52	
For Level 4 Controller, Add	5,509.55	
For Four Pole Circuit Breaker, Add	6,811.96	
For NEMA 3R Enclosure, Add	3,146.15	
For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0051 EA 1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000)	31,089.54	1,765.41
For Level 2 Controller, Add	2,135.80	
For Level 3 Controller, Add	4,409.40	
For Level 4 Controller, Add	6,407.40	
For Four Pole Circuit Breaker, Add	6,811.96	
For NEMA 3R Enclosure, Add	3,146.15	
For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0052 Accessories (26 36 23)		
26 36 23 00-0053 EA Auxiliary Contacts For Automatic Transfer Switch	325.86	
26 36 23 00-0054 EA Battery Charger For Automatic Transfer Switch	2,668.61	
26 36 23 00-0055 EA Elevator Relay Signal For Automatic Transfer Switch.....	969.13	

26 40 Electrical And Cathodic Protection (26)**26 43 Surge Protective Devices (26 40)****26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits (26 43)**

26 43 13 00-0001	25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPL			
26 43 13 00-0002 EA	120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	289.92	33.87
26 43 13 00-0003 EA	208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	312.46	33.87
26 43 13 00-0004 EA	240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	326.01	40.64
26 43 13 00-0005 EA	277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	269.93	27.10
26 43 13 00-0006 EA	480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	326.01	40.64
26 43 13 00-0007	50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPL			
26 43 13 00-0008 EA	120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	401.01	33.87
26 43 13 00-0009 EA	208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	427.44	40.64
26 43 13 00-0010 EA	208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	413.89	33.87
26 43 13 00-0011 EA	480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	427.44	40.64
26 43 13 00-0012	100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPL			
26 43 13 00-0013 EA	120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	484.73	33.87
26 43 13 00-0014 EA	208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	511.16	40.64
26 43 13 00-0015 EA	277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	451.86	27.10
26 43 13 00-0016 EA	480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	511.16	40.64
26 43 13 00-0017	100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPM			
26 43 13 00-0018 EA	120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	571.67	33.87
26 43 13 00-0019 EA	208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	644.79	40.64
26 43 13 00-0020 EA	277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	540.41	27.10
26 43 13 00-0021	160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert LPM			
26 43 13 00-0022 EA	208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	1,007.04	40.64
26 43 13 00-0023 EA	208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	993.49	33.87
26 43 13 00-0024 EA	480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	1,007.04	40.64
26 43 13 00-0025	250 kA, 500 Joule Transient Voltage Surge Suppression (26 43 13)		
Note: Liebert Interceptor Hybrid.			
26 43 13 00-0026 EA	LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	8,395.98	67.74
26 43 13 00-0027 EA	Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor	10,268.94	67.74
26 43 13 00-0028	Class 1310 Transient Voltage Surge Suppression (26 43 13)		
Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.			
26 43 13 00-0029	NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028)		
Note: Square D. EMA series.			



Electrical		26	26
Electrical And Cathodic Protection		26 40	
Surge Protective Devices		26 43	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0030	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	4,705.13	176.12	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0031	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	5,190.16	203.21	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0032	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	7,578.71	237.08	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0033	EA	320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	10,079.18	270.95	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0034	EA	480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	14,912.52	372.57	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0035	EA	120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	4,909.07	176.12	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0036	EA	160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	5,414.19	203.21	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0037	EA	240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	7,924.83	237.08	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0038	EA	320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	10,528.69	270.95	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0039	EA	480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	15,606.18	372.57	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0040	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	4,909.07	176.12	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0041	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	5,414.19	203.21	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0042	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	7,924.77	237.08	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0043	EA	320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	10,528.69	270.95	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0044	EA	480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	15,606.18	372.57	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0045	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	5,113.03	176.12	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0046	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	5,641.11	203.21	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0047	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	8,273.79	237.08	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0048	EA	320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	10,981.16	270.95	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0049	EA	480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	16,302.65	372.57	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0050	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	5,349.99	176.12	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0051	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	5,876.68	203.21	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0052	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	8,638.57	237.08	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0053	EA	320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	11,455.08	270.95	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0054	EA	480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor	16,046.25	372.57	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0055		NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028) Note: Square D EBA series.			
26 43 13 00-0056	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	3,671.16	176.12	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0057	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor	4,434.82	203.21	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		

26 Electrical**26 40 Electrical And Cathodic Protection****26 43 Surge Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0058 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,495.89 265.68 203.04	237.08
26 43 13 00-0059 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,787.48 265.68 203.04	176.12
26 43 13 00-0060 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,607.15 265.68 203.04	203.21
26 43 13 00-0061 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,721.35 265.68 203.04	237.08
26 43 13 00-0062 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,787.48 265.68 203.04	176.12
26 43 13 00-0063 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,607.15 265.68 203.04	203.21
26 43 13 00-0064 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,721.35 265.68 203.04	237.08
26 43 13 00-0065 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,935.41 265.68 203.04	176.12
26 43 13 00-0066 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,792.41 265.68 203.04	203.21
26 43 13 00-0067 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,010.01 265.68 203.04	237.08
26 43 13 00-0068 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,090.52 265.68 203.04	176.12
26 43 13 00-0069 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,989.16 265.68 203.04	203.21
26 43 13 00-0070 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,313.03 265.68 203.04	237.08
26 43 13 00-0071 NEMA 4X Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028) Note: Square D EMA series. Stainless steel.		
26 43 13 00-0072 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,062.26 265.68 203.04	176.12
26 43 13 00-0073 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,547.30 265.68 203.04	203.21
26 43 13 00-0074 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,935.84 265.68 203.04	237.08
26 43 13 00-0075 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,266.20 265.68 203.04	176.12
26 43 13 00-0076 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,771.33 265.68 203.04	203.21
26 43 13 00-0077 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	9,281.96 265.68 203.04	237.08
26 43 13 00-0078 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,266.20 265.68 203.04	176.12
26 43 13 00-0079 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,771.33 265.68 203.04	203.21
26 43 13 00-0080 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	9,281.90 265.68 203.04	237.08
26 43 13 00-0081 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,470.16 265.68 203.04	176.12
26 43 13 00-0082 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,998.24 265.68 203.04	203.21
26 43 13 00-0083 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	9,630.93 265.68 203.04	237.08
26 43 13 00-0084 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,707.12 265.68 203.04	176.12
26 43 13 00-0085 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,233.82 265.68 203.04	203.21



Electrical		26	26
Electrical And Cathodic Protection		26 40	
Surge Protective Devices		26 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... For Integral Disconnect, Add For Surge Counter, Add	9,995.71 265.68 203.04	237.08
26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028) Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,028.29 265.68 203.04	176.12
26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,791.95 265.68 203.04	203.21
26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	7,853.02 265.68 203.04	237.08
26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,144.62 265.68 203.04	176.12
26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,964.28 265.68 203.04	203.21
26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	8,078.49 265.68 203.04	237.08
26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,144.62 265.68 203.04	176.12
26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,964.28 265.68 203.04	203.21
26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	8,078.49 265.68 203.04	237.08
26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,292.54 265.68 203.04	176.12
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	6,149.55 265.68 203.04	203.21
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	8,367.14 265.68 203.04	237.08
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,447.65 265.68 203.04	176.12
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	6,346.29 265.68 203.04	203.21
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	8,670.16 265.68 203.04	237.08

26 50 Lighting (26)

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 52 Safety Lighting (26 50)

26 52 13 Emergency and Exit Lighting (26 52)

26 52 13 13 Emergency Lighting (26 52 13)

26 52 13 13-0001 Commercial Emergency Lights (26 52 13 13)

26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights (26 52 13 13-0001)

Note: Includes lead-calcium batteries and two adjustable lamp heads.

26 52 13 13-0003 EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED)	264.15	33.87
26 52 13 13-0004 EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	181.60	33.87
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0005 EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	289.63	33.87
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0006 EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627)	338.54	33.87
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	

26	Electrical
26 50	Lighting
26 52	Safety Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0007 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654)	506.60	33.87
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0008 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254)	574.83	33.87
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0009 EA 72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272)	840.63	33.87
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0010 Remote Heads For Commercial Emergency Lights (26 52 13 13-0001)		
Note: For use with fixtures that have remote capability.		
26 52 13 13-0011 EA 6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606)	179.02	20.32
26 52 13 13-0012 EA 6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606)	180.25	20.32
26 52 13 13-0013 EA 8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806)	184.38	20.32
26 52 13 13-0014 EA 12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212)	183.71	20.32
26 52 13 13-0015 EA 12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212)	158.37	20.32
26 52 13 13-0016 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206)	108.07	20.32
26 52 13 13-0017 Industrial Emergency Lights (26 52 13 13)		
26 52 13 13-0018 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0017)		
26 52 13 13-0019 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018)		
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0020 EA 16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16)	469.48	33.87
For Wireguard, Add	241.72	
26 52 13 13-0021 EA 24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24)	393.15	33.87
For Wireguard, Add	241.72	
26 52 13 13-0022 EA 36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36)	616.23	33.87
For Wireguard, Add	241.72	
26 52 13 13-0023 EA 50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50)	654.73	33.87
For Wireguard, Add	241.72	
26 52 13 13-0024 EA 125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125)	937.07	33.87
For Wireguard, Add	257.45	
26 52 13 13-0025 EA 275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275)	1,477.19	33.87
For Wireguard, Add	257.45	
26 52 13 13-0026 Remote Heads For Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018)		
Note: For use with fixtures that have remote capability.		
26 52 13 13-0027 EA 8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806)	137.06	20.32
For Wireguard, Add	195.07	
26 52 13 13-0028 EA 12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206)	141.86	20.32
For Wireguard, Add	195.07	
26 52 13 13-0029 EA 8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812)	137.73	20.32
For Wireguard, Add	195.07	
26 52 13 13-0030 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212)	138.51	20.32
For Wireguard, Add	195.07	
26 52 13 13-0031 EA 12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512)	141.86	20.32
For Wireguard, Add	195.07	
26 52 13 13-0032 EA 12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512)	166.18	20.32
For Wireguard, Add	195.07	
26 52 13 13-0033 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0017)		
26 52 13 13-0034 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0033)		
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0035 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618)	463.35	33.87
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	



Electrical		26	26
Lighting		26 50	
Safety Lighting		26 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0036 EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	504.08	33.87
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0037 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	492.92	33.87
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0038 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	521.38	33.87
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0039 EA 100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	881.83	33.87
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0040 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618).....	691.56	33.87
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	61.50	
26 52 13 13-0041 EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	775.26	33.87
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	61.50	
26 52 13 13-0042 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	817.66	33.87
For Wireguard, Add	235.02	
For Self-Diagnostics, Add	61.50	
26 52 13 13-0043 Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0033) Note: For use with fixtures that have remote capability.		
26 52 13 13-0044 EA 9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	118.65	20.32
26 52 13 13-0045 EA 12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	128.35	20.32
26 52 13 13-0046 EA 9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912).....	118.76	20.32
26 52 13 13-0047 EA 12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	125.90	20.32
26 52 13 13-0048 EA 12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	107.55	20.32
26 52 13 13-0049 Outdoor Emergency Lights (26 52 13 13)		
26 52 13 13-0050 Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights (26 52 13 13-0049) Note: Includes nickel-cadmium batteries.		
26 52 13 13-0051 EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....	732.29	33.87
26 52 13 13-0052 EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	874.58	33.87
26 52 13 13-0053 Recessed Emergency Lights (26 52 13 13)		
26 52 13 13-0054 EA 10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG).....	798.47	33.87
For Wire Guard, Add	60.00	
26 52 13 13-0055 EA 16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	626.75	67.74
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
For Wireguard, Add	257.45	
26 52 13 13-0056 EA 50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4).....	902.51	67.74
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
For Wireguard, Add	257.45	
26 52 13 13-0057 Square Wraparound Emergency Lights (26 52 13 13)		
26 52 13 13-0058 EA 10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ).....	363.54	33.87
26 52 13 16 Exit Signs (26 52 13) Note: Excludes pendants.		
26 52 13 16-0001 LED Exit Signs (26 52 13 16) Note: Includes red LED lamps.		
26 52 13 16-0002 EA Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	211.88	49.52
For Green LED Lamps, Add	15.00	
For >50 To 100, Deduct	-7.77	
For >100 To 250, Deduct	-13.07	
For >250 To 500, Deduct	-21.19	
For >500, Deduct	-29.31	

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0003 EA Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	211.88	49.52
For Green LED Lamps, Add	15.00	
For >50 To 100, Deduct	-7.77	
For >100 To 250, Deduct	-13.07	
For >250 To 500, Deduct	-21.19	
For >500, Deduct	-29.31	
26 52 13 16-0004 EA Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM-S-W-3-R-120/277-EL-N-M6).....	296.30	49.52
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
For >50 To 100, Deduct	-9.88	
For >100 To 250, Deduct	-17.29	
For >250 To 500, Deduct	-29.63	
For >500, Deduct	-41.97	
26 52 13 16-0005 EA Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	296.30	49.52
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
For >50 To 100, Deduct	-9.88	
For >100 To 250, Deduct	-17.29	
For >250 To 500, Deduct	-29.63	
For >500, Deduct	-41.97	
26 52 13 16-0006 EA Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-1-R).....	326.46	49.52
For Green LED Lamps, Add	15.00	
For >50 To 100, Deduct	-10.64	
For >100 To 250, Deduct	-18.80	
For >250 To 500, Deduct	-32.65	
For >500, Deduct	-46.49	
26 52 13 16-0007 EA Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-2-R).....	370.46	49.52
For Green LED Lamps, Add	15.00	
For >50 To 100, Deduct	-11.74	
For >100 To 250, Deduct	-21.00	
For >250 To 500, Deduct	-37.05	
For >500, Deduct	-53.09	
26 52 13 16-0008 EA Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-1-R-EL-N).....	308.07	49.52
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
For >50 To 100, Deduct	-10.18	
For >100 To 250, Deduct	-17.88	
For >250 To 500, Deduct	-30.81	
For >500, Deduct	-43.73	
26 52 13 16-0009 EA Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-2-R-EL-N).....	340.01	49.52
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
For >50 To 100, Deduct	-10.98	
For >100 To 250, Deduct	-19.48	
For >250 To 500, Deduct	-34.00	
For >500, Deduct	-48.53	
26 52 13 16-0010 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-S-W-3-R-M4).....	392.11	49.52
Note: Includes two circular side mounted krypton emergency lights.		
For Green LED Lamps, Add	15.00	
For >50 To 100, Deduct	-13.19	
For >100 To 250, Deduct	-22.99	
For >250 To 500, Deduct	-39.21	
For >500, Deduct	-55.43	
26 52 13 16-0011 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-LED-R-M6).....	359.17	49.52
Note: Includes two circular side mounted LED emergency lights.		
For Green LED Lamps, Add	15.00	
For >50 To 100, Deduct	-12.37	
For >100 To 250, Deduct	-21.35	
For >250 To 500, Deduct	-35.92	
For >500, Deduct	-50.49	
26 52 13 16-0012 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH).....	491.75	49.52
Note: Includes two rectangular front mounted high intensity tungsten emergency lights.		
For Green LED Lamps, Add	15.00	
For >50 To 100, Deduct	-15.68	
For >100 To 250, Deduct	-27.97	
For >250 To 500, Deduct	-49.18	
For >500, Deduct	-70.38	
26 52 13 16-0013 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....	514.94	49.52
Note: Includes two circular side mounted PAR 36 emergency lights.		
For Green LED Lamps, Add	15.00	
For >50 To 100, Deduct	-16.26	
For >100 To 250, Deduct	-29.13	
For >250 To 500, Deduct	-51.49	
For >500, Deduct	-73.85	



Electrical		26	26
Lighting		26 50	
Safety Lighting		26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0014	EA		Double Face, Damp Location, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LE-S-2-R-120/277-EL-N-SD).....	380.97	49.52
			Note: Includes fire alarm flashing interface.		
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-12.00	
			For >100 To 250, Deduct	-21.52	
			For >250 To 500, Deduct	-38.10	
			For >500, Deduct	-54.67	
26 52 13 16-0015	EA		Single Face, NEMA 4X All-Conditions/Vandal Resistant, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LV-S-W-1-R-120/277-EL-N).....	842.45	49.52
			Note: Includes fire alarm flashing interface.		
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-23.54	
			For >100 To 250, Deduct	-44.60	
			For >250 To 500, Deduct	-84.25	
			For >500, Deduct	-123.89	
26 52 13 16-0016	EA		Single Face, Polycarbonate Housing, LED Exit Sign With Battery Back-Up (Cooper Sure-Lites LPX).....	504.70	49.52
			For >50 To 100, Deduct	-16.00	
			For >100 To 250, Deduct	-28.62	
			For >250 To 500, Deduct	-50.47	
			For >500, Deduct	-72.32	
26 52 13 16-0017	EA		Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....	140.78	49.52
			For >50 To 100, Deduct	-6.00	
			For >100 To 250, Deduct	-9.51	
			For >250 To 500, Deduct	-14.08	
			For >500, Deduct	-18.64	
26 52 13 16-0018	EA		120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R).....	141.32	49.52
			For >50 To 100, Deduct	-6.01	
			For >100 To 250, Deduct	-9.54	
			For >250 To 500, Deduct	-14.13	
			For >500, Deduct	-18.72	
26 52 13 16-0019			Edge-Lit LED Exit Signs (26 52 13 16)		
			Note: Includes red LED lamps.		
26 52 13 16-0020	EA		Single Face, Edge-Lit LED Exit Sign (Lithonia EDG-1- R-M6).....	290.92	49.52
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-9.75	
			For >100 To 250, Deduct	-17.02	
			For >250 To 500, Deduct	-29.09	
			For >500, Deduct	-41.16	
26 52 13 16-0021	EA		Double Face, Edge-Lit LED Exit Sign (Lithonia EDG-2-R-M6).....	293.97	49.52
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-9.83	
			For >100 To 250, Deduct	-17.17	
			For >250 To 500, Deduct	-29.40	
			For >500, Deduct	-41.62	
26 52 13 16-0022	EA		Single Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-1-R-EL-M6).....	314.58	49.52
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-10.34	
			For >100 To 250, Deduct	-18.20	
			For >250 To 500, Deduct	-31.46	
			For >500, Deduct	-44.71	
26 52 13 16-0023	EA		Double Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-2-R-EL-M6).....	376.18	49.52
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-11.88	
			For >100 To 250, Deduct	-21.28	
			For >250 To 500, Deduct	-37.62	
			For >500, Deduct	-53.95	
26 52 13 16-0024			Self-Luminous Tritium Exit Signs (26 52 13 16)		
			Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 52 13 16-0025	EA		10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-10-R).....	621.30	49.52
			For >50 To 100, Deduct	-18.01	
			For >100 To 250, Deduct	-33.54	
			For >250 To 500, Deduct	-62.13	
			For >500, Deduct	-90.72	
26 52 13 16-0026	EA		10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-10-R).....	1,143.01	49.52
			For >50 To 100, Deduct	-31.05	
			For >100 To 250, Deduct	-59.63	
			For >250 To 500, Deduct	-114.30	
			For >500, Deduct	-168.98	
26 52 13 16-0027	EA		20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-20-R).....	740.15	49.52
			For >50 To 100, Deduct	-20.98	
			For >100 To 250, Deduct	-39.48	
			For >250 To 500, Deduct	-74.02	
			For >500, Deduct	-108.55	

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0028	EA	20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-20-R).....	1,238.42	49.52
		For >50 To 100, Deduct	-33.44	
		For >100 To 250, Deduct	-64.40	
		For >250 To 500, Deduct	-123.84	
		For >500, Deduct	-183.29	
26 52 13 16-0029	EA	10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-10-R).....	680.44	49.52
		For >50 To 100, Deduct	-19.49	
		For >100 To 250, Deduct	-36.50	
		For >250 To 500, Deduct	-68.04	
		For >500, Deduct	-99.59	
26 52 13 16-0030	EA	10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-10-R)	1,238.42	49.52
		For >50 To 100, Deduct	-33.44	
		For >100 To 250, Deduct	-64.40	
		For >250 To 500, Deduct	-123.84	
		For >500, Deduct	-183.29	
26 52 13 16-0031	EA	20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-20-R).....	835.00	49.52
		For >50 To 100, Deduct	-23.35	
		For >100 To 250, Deduct	-44.23	
		For >250 To 500, Deduct	-83.50	
		For >500, Deduct	-122.77	
26 52 13 16-0032	EA	20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-20-R)	1,537.50	49.52
		For >50 To 100, Deduct	-40.91	
		For >100 To 250, Deduct	-79.35	
		For >250 To 500, Deduct	-153.75	
		For >500, Deduct	-228.15	
26 52 13 16-0033		Vandal-Resistant LED Exit Signs (26 52 13 16) Note: Includes red LED lamps.		
26 52 13 16-0034	EA	Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign (Lithonia LV-S-W-1-R-120/277)	586.14	49.52
		For >50 To 100, Deduct	-17.13	
		For >100 To 250, Deduct	-31.78	
		For >250 To 500, Deduct	-58.61	
		For >500, Deduct	-85.45	
26 52 13 16-0035	EA	Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-W-1-R-120/277-EL-N)	909.21	49.52
		For >50 To 100, Deduct	-25.21	
		For >100 To 250, Deduct	-47.94	
		For >250 To 500, Deduct	-90.92	
		For >500, Deduct	-133.91	
26 52 13 16-0036	EA	Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-1-R-120/277-EL-N-UM-4X)	1,107.30	49.52
		For >50 To 100, Deduct	-30.16	
		For >100 To 250, Deduct	-57.84	
		For >250 To 500, Deduct	-110.73	
		For >500, Deduct	-163.62	
26 52 13 16-0037		Removal And Reinstallation Of Exit Light Fixture (26 52 13 16)		
26 52 13 16-0038	EA	Removal And Reinstall Of Exit Light Fixtures	101.61	
		Note: Includes storage and cleaning.		
		For >50 To 100, Deduct	-5.08	
		For >100 To 250, Deduct	-7.62	
		For >250 To 500, Deduct	-10.16	
		For >500, Deduct	-12.70	
26 52 13 16-0039		Exit Sign Accessories (26 52 13 16)		
26 52 13 16-0040	EA	Polycarbonate Vandal Shield For Exit Signs (Radiant-Lite BG-1).....	138.73	13.58
		For >50 To 100, Deduct	-4.15	
		For >100 To 250, Deduct	-7.62	
		For >250 To 500, Deduct	-13.87	
		For >500, Deduct	-20.13	
26 52 13 16-0041	EA	Wire Guard For Exit Signs Or Emergency Lights (Best Lighting Products WG-1)	80.98	13.58
		For >50 To 100, Deduct	-2.70	
		For >100 To 250, Deduct	-4.73	
		For >250 To 500, Deduct	-8.10	
		For >500, Deduct	-11.47	
26 52 13 16-0042	EA	Removal And Replacement Of Battery For Exit Signs	138.72	
		Note: Battery: nickel cadmium, 1.2 volt, 1 Ah battery capacity		
		For >50 To 100, Deduct	-4.32	
		For >100 To 250, Deduct	-7.78	
		For >250 To 500, Deduct	-13.87	
		For >500, Deduct	-19.96	

26 55 Special Purpose Lighting (26 50)

26 55 13 Landscape Lighting (26 55)

26 55 13 00-0001 **Bollards** (26 55 13)
Note: Excludes concrete base.

26 55 13 00-0002 **Aluminum Architectural Bollards** (26 55 13 00-0001)



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0003 High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0004 Square, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0005 EA 24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,687.26	115.15
26 55 13 00-0006 EA 30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,700.81	121.93
26 55 13 00-0007 EA 36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,714.35	128.70
26 55 13 00-0008 EA 42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,587.21	135.48
26 55 13 00-0009 EA 24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,687.26	115.15
26 55 13 00-0010 EA 30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,700.81	121.93
26 55 13 00-0011 EA 36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,714.35	128.70
26 55 13 00-0012 EA 42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,587.21	135.48
26 55 13 00-0013 EA 24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,687.26	115.15
26 55 13 00-0014 EA 30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,700.81	121.93
26 55 13 00-0015 EA 36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,714.35	128.70
26 55 13 00-0016 EA 42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,587.21	135.48
26 55 13 00-0017 EA 24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,687.26	115.15
26 55 13 00-0018 EA 30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,700.81	121.93
26 55 13 00-0019 EA 36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,714.35	128.70
26 55 13 00-0020 EA 42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,587.21	135.48
26 55 13 00-0021 Round, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0022 EA 24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,622.66	115.15
26 55 13 00-0023 EA 30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,636.21	121.93
26 55 13 00-0024 EA 36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,649.75	128.70
26 55 13 00-0025 EA 42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,522.01	135.48
26 55 13 00-0026 EA 24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,622.66	115.15
26 55 13 00-0027 EA 30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,636.21	121.93
26 55 13 00-0028 EA 36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,649.75	128.70
26 55 13 00-0029 EA 42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,522.01	135.48
26 55 13 00-0030 EA 24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,622.66	115.15
26 55 13 00-0031 EA 30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,636.21	121.93
26 55 13 00-0032 EA 36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,649.75	128.70
26 55 13 00-0033 EA 42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,522.01	135.48
26 55 13 00-0034 EA 24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,622.66	115.15
26 55 13 00-0035 EA 30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,636.21	121.93
26 55 13 00-0036 EA 36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,649.75	128.70
26 55 13 00-0037 EA 42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,522.01	135.48
26 55 13 00-0038 Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0039 Square, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0040 EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,771.15	115.15
26 55 13 00-0041 EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,784.70	121.93
26 55 13 00-0042 EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,798.24	128.70
26 55 13 00-0043 EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,670.51	135.48
26 55 13 00-0044 EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,771.15	115.15
26 55 13 00-0045 EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,784.70	121.93
26 55 13 00-0046 EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,798.24	128.70
26 55 13 00-0047 EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,670.51	135.48
26 55 13 00-0048 EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,771.15	115.15
26 55 13 00-0049 EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,784.70	121.93
26 55 13 00-0050 EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,798.24	128.70
26 55 13 00-0051 EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,740.70	135.48
26 55 13 00-0052 Round, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0053 EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,705.95	115.15
26 55 13 00-0054 EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,719.50	121.93
26 55 13 00-0055 EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,733.04	128.70
26 55 13 00-0056 EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,605.31	135.48
26 55 13 00-0057 EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,705.95	115.15
26 55 13 00-0058 EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,719.50	121.93
26 55 13 00-0059 EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,733.04	128.70
26 55 13 00-0060 EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,605.31	135.48
26 55 13 00-0061 EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,705.95	115.15
26 55 13 00-0062 EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,719.50	121.93
26 55 13 00-0063 EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,733.04	128.70
26 55 13 00-0064 EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,605.31	135.48
26 55 13 00-0065 EA 47-1/4" Overall Height, 8-5/8" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard (Bega 9483MH)	4,025.62	270.95
26 55 13 00-0066 Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0067 Square, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0066)		
26 55 13 00-0068 EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,679.90	115.15
26 55 13 00-0069 EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,693.45	121.93
26 55 13 00-0070 EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,706.99	128.70
26 55 13 00-0071 EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,581.18	135.48

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0072 EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,679.90	115.15
26 55 13 00-0073 EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,693.45	121.93
26 55 13 00-0074 EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,706.99	128.70
26 55 13 00-0075 EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,581.18	135.48
26 55 13 00-0076 EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,679.90	115.15
26 55 13 00-0077 EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,693.45	121.93
26 55 13 00-0078 EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,706.99	128.70
26 55 13 00-0079 EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,581.18	135.48
26 55 13 00-0080 Round, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0066)		
26 55 13 00-0081 EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,616.13	115.15
26 55 13 00-0082 EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,629.68	121.93
26 55 13 00-0083 EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,643.22	128.70
26 55 13 00-0084 EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,518.63	135.48
26 55 13 00-0085 EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,616.13	115.15
26 55 13 00-0086 EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,629.68	121.93
26 55 13 00-0087 EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,643.22	128.70
26 55 13 00-0088 EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,518.63	135.48
26 55 13 00-0089 EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,616.13	115.15
26 55 13 00-0090 EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,629.68	121.93
26 55 13 00-0091 EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,643.22	128.70
26 55 13 00-0092 EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,518.63	135.48
26 55 13 00-0093 LED, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0094 Square, LED, Aluminum Architectural Bollards (26 55 13 00-0093)		
26 55 13 00-0095 EA 24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	2,011.03	115.15
26 55 13 00-0096 EA 30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	2,024.58	121.93
26 55 13 00-0097 EA 36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	2,038.12	128.70
26 55 13 00-0098 EA 42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	1,914.07	135.48
26 55 13 00-0099 EA 24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	2,454.98	115.15
26 55 13 00-0100 EA 30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	2,468.53	121.93
26 55 13 00-0101 EA 36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	2,482.07	128.70
26 55 13 00-0102 EA 42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	2,355.81	135.48
26 55 13 00-0103 Round, LED, Aluminum Architectural Bollards (26 55 13 00-0093)		
26 55 13 00-0104 EA 24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,944.80	115.15
26 55 13 00-0105 EA 30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,958.35	121.93
26 55 13 00-0106 EA 36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,971.89	128.70
26 55 13 00-0107 EA 42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,845.63	135.48
26 55 13 00-0108 EA 24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,388.76	115.15
26 55 13 00-0109 EA 30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,402.31	121.93
26 55 13 00-0110 EA 36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,415.85	128.70
26 55 13 00-0111 EA 42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,290.37	135.48
26 55 13 00-0112 Reinforced Concrete Bollards (26 55 13 00-0001)		
26 55 13 00-0113 EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard.....	1,676.94	338.69
26 55 13 00-0114 EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard.....	2,942.43	451.55
26 55 13 00-0115 Low Voltage (26 55 13)		
26 55 13 00-0116 EA Low Voltage Recessed Uplight.....	891.38	246.57
26 55 13 00-0117 EA Low Voltage Walkway.....	630.01	135.48
26 55 13 00-0118 EA Low Voltage Malibu - 5 Light Set.....	622.86	180.87
26 55 13 00-0119 EA Low Voltage Mushroom 24" Pier.....	538.61	135.48
26 55 13 00-0120 Recessed, Adjustable (26 55 13)		
26 55 13 00-0121 EA 150 Watt Incandescent Recessed, Adjustable.....	1,040.63	216.76
26 55 13 00-0122 EA 300 Watt Incandescent Recessed, Adjustable.....	1,138.56	216.76
26 55 13 00-0123 Recessed, Uplight (26 55 13)		
26 55 13 00-0124 EA 50 Watt Incandescent Recessed Uplight.....	929.65	216.76
26 55 13 00-0125 EA 150 Watt Incandescent Recessed Uplight.....	949.24	216.76
26 55 13 00-0126 EA 300 Watt Incandescent Recessed Uplight.....	1,007.99	216.76
26 55 13 00-0127 EA 500 Watt Quartz Recessed Uplight.....	1,001.46	216.76
26 55 13 00-0128 EA 5 Watt, LED Recessed Uplight.....	1,243.93	216.76
26 55 13 00-0129 EA 15 Watt, LED Recessed Uplight.....	1,367.62	216.76
26 55 13 00-0130 Recessed Wall Light (26 55 13)		
26 55 13 00-0131 EA 100 Watt Incandescent Recessed Wall Light.....	479.86	135.48
26 55 13 00-0132 EA 100 Watt Fluorescent Recessed Wall Light.....	460.27	135.48
26 55 13 00-0133 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	746.90	180.87



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0134 Step Lights (26 55 13)		
26 55 13 00-0135 EA Incandescent Step Light	392.95	108.38
26 55 13 00-0136 EA Fluorescent Step Light	458.31	108.38
26 55 13 00-0137 EA 5 Watt, LED Step Light	682.64	108.38
26 55 13 00-0138 EA 15 Watt, LED Step Light	814.57	108.38
26 55 13 00-0139 Tree Lights, Surface Adjustable (26 55 13)		
26 55 13 00-0140 EA 50 Watt Incandescent Tree Lights	831.77	180.87
26 55 13 00-0141 EA 100 Watt Incandescent Tree Lights	851.35	180.87
26 55 13 00-0142 EA 150 Watt Incandescent Tree Lights	1,064.18	270.95
26 55 16 Walkway Lighting (26 55)		
26 55 16 00-0001 Incandescent Walkway (26 55 16)		
26 55 16 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture	434.43	125.99
26 55 16 00-0003 Metal Halide Walkway (26 55 16)		
26 55 16 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture	669.05	198.07
26 55 16 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture	707.20	205.25
26 55 16 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture	760.16	213.10
26 55 16 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture	814.73	230.31
26 55 16 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture	728.34	213.10
26 55 16 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture	730.27	198.07
26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture	745.40	205.25
26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture	584.56	141.17
26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture	616.38	141.17
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture	648.21	141.17
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture	731.71	158.91
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture	556.01	126.81
26 55 16 00-0016 High Pressure Sodium Walkway (26 55 16)		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture	609.35	198.07
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture	642.30	205.25
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture	687.07	213.10
26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture	737.31	230.31
26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture	662.21	213.10
26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	657.18	198.07
26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture	672.15	205.25
26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture	518.43	141.17
26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture	543.29	141.17
26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture	568.15	141.17
26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture	641.21	158.91
26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture	559.66	126.81
26 55 16 00-0029 Walkway, Adjustable (26 55 16)		
26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture	628.64	180.87
26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture	644.34	180.87
26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture	1,096.66	270.95
26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture	522.16	135.48
26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture	543.09	135.48
26 55 16 00-0035 LED Walkway (26 55 16)		
26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 55 16 00-0035)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	867.52	103.99
For Multi-Level Drive Currents, Add	219.88	
26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	894.22	103.99
For Multi-Level Drive Currents, Add	219.88	
26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	941.34	103.99
For Multi-Level Drive Currents, Add	219.88	
26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	977.46	103.99
For Multi-Level Drive Currents, Add	219.88	
26 55 16 00-0041 EA 96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,129.07	133.71
For Multi-Level Drive Currents, Add	219.88	
26 55 16 00-0042 Wall Mounted Walkway Lighting (26 55 16 00-0035)		
26 55 16 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492)	4,741.55	
Note: Type Fixture 17 as Post		

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 55 16 00-0044	Pole Mounted Walkway Lighting (26 55 16 00-0035)		
26 55 16 00-0045	EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	4,377.93	
26 55 16 00-0046	EA 12' Tapered and Fluted Post (Herwig BRA Series, BRAJ-12)	4,298.50	
	Note: Washers and nuts included		
26 55 29	Underwater Lighting (26 55)		
26 55 29 00-0001	Underwater Lights (26 55 29)		
26 55 29 00-0002	EA 150 Watt, 120 Volt Underwater Lights	682.87	90.10
26 55 29 00-0003	EA 300 Watt, 120 Volt Underwater Lights	761.21	90.10
26 55 29 00-0004	EA 1,000 Watt, 120 Volt Underwater Lights	1,870.39	135.48
26 55 29 00-0005	EA 50 Watt, 12 Volt Underwater Lights	715.51	90.10
26 55 29 00-0006	EA 300 Watt, 12 Volt Underwater Lights	806.91	90.10
26 55 29 00-0007	SET Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent	2,070.74	203.21
26 55 53	Security Lighting (26 55)		
26 55 53 11	Security Flood Lighting (26 55 53)		
26 55 53 11-0001	Flood Lights (General Electric Powerflood®) (26 55 53 11)		
26 55 53 11-0002	MPF (Small Size) Series GE Flood Lights (26 55 53 11-0001)		
	Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.		
26 55 53 11-0003	High Pressure Sodium MPF Series GE Flood Lights (26 55 53 11-0002)		
26 55 53 11-0004	EA 70 Watt High Pressure Sodium MPF Series GE Flood Light	410.11	113.52
26 55 53 11-0005	EA 100 Watt High Pressure Sodium MPF Series GE Flood Light	413.77	113.52
26 55 53 11-0006	EA 150 Watt High Pressure Sodium MPF Series GE Flood Light	419.87	113.52
26 55 53 11-0007	Metal Halide MPF Series GE Flood Lights (26 55 53 11-0002)		
26 55 53 11-0008	EA 70 Watt Metal Halide MPF Series GE Flood Light	555.34	113.52
26 55 53 11-0009	P-154 (Small Size) Series GE Flood Lights (26 55 53 11-0001)		
	Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0010	High Pressure Sodium P-154 Series GE Flood Lights (26 55 53 11-0009)		
26 55 53 11-0011	EA 70 Watt High Pressure Sodium P-154 Series GE Flood Light	828.73	151.36
26 55 53 11-0012	EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light	833.62	151.36
26 55 53 11-0013	EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light	842.16	151.36
26 55 53 11-0014	EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light	938.57	151.36
26 55 53 11-0015	EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light	966.64	151.36
26 55 53 11-0016	Metal Halide P-154 Series GE Flood Lights (26 55 53 11-0009)		
26 55 53 11-0017	EA 175 Watt Metal Halide P-154 Series GE Flood Light	820.19	151.36
26 55 53 11-0018	EA 250 Watt Metal Halide P-154 Series GE Flood Light	862.91	151.36
26 55 53 11-0019	EA 400 Watt Metal Halide P-154 Series GE Flood Light	884.87	151.36
26 55 53 11-0020	PF-154 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)		
	Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0021	High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0020)		
26 55 53 11-0022	EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light	845.84	170.28
26 55 53 11-0023	EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light	851.94	170.28
26 55 53 11-0024	EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light	861.70	170.28
26 55 53 11-0025	EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light	956.90	170.28
26 55 53 11-0026	EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light	983.75	170.28
26 55 53 11-0027	Metal Halide PF-154 GE Flood Lights (26 55 53 11-0020)		
26 55 53 11-0028	EA 175 Watt Metal Halide PF-154 Series GE Flood Light	838.51	170.28
26 55 53 11-0029	EA 250 Watt Metal Halide PF-154 Series GE Flood Light	880.01	170.28
26 55 53 11-0030	EA 400 Watt Metal Halide PF-154 Series GE Flood Light	901.98	170.28
26 55 53 11-0031	PF-400 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)		
	Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0032	High Pressure Sodium PF-400 Series GE Flood Lights (26 55 53 11-0031)		
26 55 53 11-0033	EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light	1,133.86	170.28



Electrical			26
Lighting			26 50
Special Purpose Lighting			26 55

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,219.29	170.28
26 55 53 11-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,213.19	170.28
26 55 53 11-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,243.70	170.28
26 55 53 11-0037 Metal Halide PF-400 GE Flood Lights (26 55 53 11-0031)		
26 55 53 11-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light.....	1,165.59	170.28
26 55 53 11-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light.....	1,191.22	170.28
26 55 53 11-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light.....	1,218.07	170.28
26 55 53 11-0041 PF-1000 (Large Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0042 High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0041)		
26 55 53 11-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	1,536.61	189.21
26 55 53 11-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	1,536.61	189.21
26 55 53 11-0045 Metal Halide PF-1000 Series GE Flood Lights (26 55 53 11-0041)		
26 55 53 11-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light.....	1,465.82	189.21
26 55 53 11-0047 HLU/VLU (Medium Size) FRP Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights (26 55 53 11-0047)		
26 55 53 11-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	1,251.03	170.28
26 55 53 11-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	1,274.21	170.28
26 55 53 11-0051 Metal Halide HLU/VLU Series GE Flood Lights (26 55 53 11-0047)		
26 55 53 11-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light.....	1,264.45	170.28
26 55 53 11-0053 Accessories For Powerflood GE Flood Lights (26 55 53 11-0001)		
26 55 53 11-0054 EA Wireguard For Powerflood GE Flood Light.....	216.03	37.84
26 55 53 11-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	125.72	37.84
26 55 53 11-0056 EA Top Visor For Powerflood Flood Light.....	181.86	37.84
26 55 53 11-0057 EA Top And Two Side Visors For Powerflood GE Flood Light.....	139.14	37.84
26 55 53 11-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	351.53	113.52
26 55 53 11-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light.....	152.57	37.84
26 55 53 11-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light.....	259.99	113.52
26 55 53 11-0061 EA Steel Angle Bracket For Powerflood GE Flood Light.....	270.98	113.52
26 55 53 11-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light.....	114.73	37.84
26 55 53 11-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light.....	111.07	37.84
26 55 53 11-0064 Flood Lights (Lithonia Contour Series) (26 55 53 11)		
26 55 53 11-0065 TFM (Small Size) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 55 53 11-0066 High Pressure Sodium TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	763.76	151.36
26 55 53 11-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	834.23	151.36
26 55 53 11-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	903.23	151.36
26 55 53 11-0070 Metal Halide TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light.....	989.35	151.36
26 55 53 11-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light.....	972.38	151.36
26 55 53 11-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light.....	945.04	151.36
26 55 53 11-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light.....	943.02	151.36
26 55 53 11-0075 Compact Fluorescent TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	982.32	151.36
26 55 53 11-0077 TFL (Medium Size) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0078 High Pressure Sodium TFL Series Lithonia Flood Lights (26 55 53 11-0077)		

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0079 EA 250 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,168.82	170.28
26 55 53 11-0080 EA 400 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,192.32	170.28
26 55 53 11-0081 Metal Halide TFL Series Lithonia Flood Lights (26 55 53 11-0077)		
26 55 53 11-0082 EA 175 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,116.00	170.28
26 55 53 11-0083 EA 250 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,116.00	170.28
26 55 53 11-0084 EA 400 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,152.85	170.28
26 55 53 11-0085 TFR (Low Profile) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0086 High Pressure Sodium TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0087 EA 150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	1,119.25	151.36
26 55 53 11-0088 EA 250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	1,154.42	151.36
26 55 53 11-0089 EA 400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	1,183.81	151.36
26 55 53 11-0090 Metal Halide TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0091 EA 250 Watt Metal Halide TFR Series Lithonia Flood Light.....	1,107.48	151.36
26 55 53 11-0092 EA 400 Watt Metal Halide TFR Series Lithonia Flood Light.....	1,142.71	151.36
26 55 53 11-0093 TFA (Large Size) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0094 High Pressure Sodium TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0095 EA 1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	2,169.73	189.21
26 55 53 11-0096 Metal Halide TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0097 EA 400 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,670.49	189.21
26 55 53 11-0098 EA 1,000 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,846.67	189.21
26 55 53 11-0099 Accessories For Contour Series Lithonia Flood Lights (26 55 53 11-0064)		
26 55 53 11-0100 EA Wireguard For Contour Series Lithonia Flood Light.....	186.42	37.84
26 55 53 11-0101 EA Vandal Guard For Contour Series Lithonia Flood Light.....	359.36	37.84
26 55 53 11-0102 EA Upper Visor For Contour Series Lithonia Flood Light.....	153.79	37.84
26 55 53 11-0103 EA Full Visor For Contour Series Lithonia Flood Light.....	206.63	37.84
26 55 53 11-0104 EA Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light.....	461.93	113.52
26 55 53 11-0105 EA Radius Wall Bracket For Contour Series Lithonia Flood Light.....	368.42	113.52
26 55 53 11-0106 EA Steel Angle Bracket For Contour Series Lithonia Flood Light.....	368.42	113.52
26 55 53 11-0107 EA U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe.....	405.71	113.52
26 55 53 11-0108 EA Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light.....	178.39	37.84
26 55 53 11-0109 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light.....	142.56	37.84
26 55 53 11-0110 Flood Lights (Eaton) (26 55 53 11)		
26 55 53 11-0111 EA 6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB).....	1,198.08	151.36
For NEMA Photocontrol Option (Eaton OA/RA1016), Add		63.18
For >50 To 100, Deduct		-37.52
For >100 To 250, Deduct		-67.47
For >250 To 500, Deduct		-119.81
For >500, Deduct		-172.14
26 55 53 11-0112 EA 16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light		
With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016).....		1,489.24
For >50 To 100, Deduct		-45.58
For >100 To 250, Deduct		-82.81
For >250 To 500, Deduct		-148.92
For >500, Deduct		-215.04
26 55 53 11-0113 Flood Lights (Ruud) (26 55 53 11)		
26 55 53 11-0114 NS (Micro) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
26 55 53 11-0115 High Pressure Sodium NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0116 EA 35 Watt High Pressure Sodium NS Series Ruud Flood Light.....	502.86	113.52
26 55 53 11-0117 EA 50 Watt High Pressure Sodium NS Series Ruud Flood Light.....	502.86	113.52
26 55 53 11-0118 EA 70 Watt High Pressure Sodium NS Series Ruud Flood Light.....	502.86	113.52
26 55 53 11-0119 EA 100 Watt High Pressure Sodium NS Series Ruud Flood Light.....	502.86	113.52
26 55 53 11-0120 EA 150 Watt High Pressure Sodium NS Series Ruud Flood Light.....	502.86	113.52
26 55 53 11-0121 Metal Halide NS Series Ruud Flood Lights (26 55 53 11-0114)		



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0122 EA 50 Watt Metal Halide NS Series Ruud Flood Light.....	571.21	113.52
26 55 53 11-0123 EA 70 Watt Metal Halide NS Series Ruud Flood Light.....	571.21	113.52
26 55 53 11-0124 EA 100 Watt Metal Halide NS Series Ruud Flood Light.....	571.21	113.52
26 55 53 11-0125 Compact Fluorescent NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0126 EA 13 Watt Compact Fluorescent NS Series Ruud Flood Light.....	432.08	113.52
26 55 53 11-0127 EA 26 Watt Compact Fluorescent NS Series Ruud Flood Light.....	449.16	113.52
26 55 53 11-0128 EA 32 Watt Compact Fluorescent NS Series Ruud Flood Light.....	454.04	113.52
26 55 53 11-0129 EA 42 Watt Compact Fluorescent NS Series Ruud Flood Light.....	458.93	113.52
26 55 53 11-0130 NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
26 55 53 11-0131 High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0132 EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	775.05	170.28
26 55 53 11-0133 EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	818.99	170.28
26 55 53 11-0134 EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	843.40	170.28
26 55 53 11-0135 Metal Halide NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0136 EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	765.29	170.28
26 55 53 11-0137 EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	770.17	170.28
26 55 53 11-0138 EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	784.81	170.28
26 55 53 11-0139 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0140 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light.....	748.20	170.28
26 55 53 11-0141 FS (Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0142 High Pressure Sodium FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0143 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light.....	904.42	170.28
26 55 53 11-0144 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light.....	909.30	170.28
26 55 53 11-0145 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light.....	1,537.83	189.21
26 55 53 11-0146 Metal Halide FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0147 EA 175 Watt Metal Halide FS Series Ruud Flood Light.....	904.42	170.28
26 55 53 11-0148 EA 250 Watt Metal Halide FS Series Ruud Flood Light.....	909.30	170.28
26 55 53 11-0149 EA 400 Watt Metal Halide FS Series Ruud Flood Light.....	923.95	170.28
26 55 53 11-0150 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light.....	1,376.73	189.21
26 55 53 11-0151 MFS (Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0152 High Pressure Sodium MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0153 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	710.35	151.36
26 55 53 11-0154 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	761.61	151.36
26 55 53 11-0155 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	761.61	151.36
26 55 53 11-0156 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	761.61	151.36
26 55 53 11-0157 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	761.61	151.36
26 55 53 11-0158 Metal Halide MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0159 EA 50 Watt Metal Halide MFS Series Ruud Flood Light.....	778.70	151.36
26 55 53 11-0160 EA 70 Watt Metal Halide MFS Series Ruud Flood Light.....	778.70	151.36
26 55 53 11-0161 EA 100 Watt Metal Halide MFS Series Ruud Flood Light.....	778.70	151.36
26 55 53 11-0162 EA 175 Watt Metal Halide MFS Series Ruud Flood Light.....	751.85	151.36
26 55 53 11-0163 MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0164 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0165 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	771.37	151.36
26 55 53 11-0166 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	822.63	151.36
26 55 53 11-0167 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	822.63	151.36
26 55 53 11-0168 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	822.63	151.36
26 55 53 11-0169 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	822.63	151.36

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0170		Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0171	EA	50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	839.72	151.36
26 55 53 11-0172	EA	70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	839.72	151.36
26 55 53 11-0173	EA	100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	839.72	151.36
26 55 53 11-0174	EA	175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	812.87	151.36
26 55 53 11-0175		CF (Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
26 55 53 11-0176		High Pressure Sodium CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0177	EA	250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,019.14	170.28
26 55 53 11-0178	EA	400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,043.55	170.28
26 55 53 11-0179	EA	1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,598.85	189.21
26 55 53 11-0180		Metal Halide CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0181	EA	175 Watt Metal Halide CF Series Ruud Flood Light	965.44	170.28
26 55 53 11-0182	EA	250 Watt Metal Halide CF Series Ruud Flood Light	970.32	170.28
26 55 53 11-0183	EA	400 Watt Metal Halide CF Series Ruud Flood Light	984.97	170.28
26 55 53 11-0184	EA	1,000 Watt Metal Halide CF Series Ruud Flood Light	1,437.75	189.21
26 55 53 11-0185		CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		
26 55 53 11-0186		High Pressure Sodium CN Series Ruud Flood Lights (26 55 53 11-0185)		
26 55 53 11-0187	EA	400 High Pressure Sodium CN Series Ruud Flood Light.....	1,315.71	189.21
26 55 53 11-0188	EA	1,000 High Pressure Sodium CN Series Ruud Flood Light.....	1,569.56	189.21
26 55 53 11-0189		Metal Halide CN Series Ruud Flood Lights (26 55 53 11-0185)		
26 55 53 11-0190	EA	400 Watt Metal Halide CN Series Ruud Flood Light	1,257.12	189.21
26 55 53 11-0191	EA	1,000 Watt Metal Halide CN Series Ruud Flood Light.....	1,408.46	189.21
26 55 53 11-0192		PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0193		High Pressure Sodium PM/PN Series Ruud Flood Lights (26 55 53 11-0192)		
26 55 53 11-0194	EA	250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	1,053.31	170.28
26 55 53 11-0195	EA	400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	1,077.72	170.28
26 55 53 11-0196		Metal Halide PM/PN Series Ruud Flood Lights (26 55 53 11-0192)		
26 55 53 11-0197	EA	175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	999.61	170.28
26 55 53 11-0198	EA	250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,004.49	170.28
26 55 53 11-0199	EA	400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,019.14	170.28
26 55 53 11-0200	EA	1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,471.92	189.21
26 55 53 11-0201		Accessories For Ruud Flood Lighting (26 55 53 11-0113)		
26 55 53 11-0202	EA	Wireguard For Ruud Flood Light.....	112.29	37.84
26 55 53 11-0203	EA	Deep Baffle (Full Visor) For Ruud Flood Light	178.20	37.84
26 55 53 11-0204	EA	Glare Guard (Upper Visor) For Ruud Flood Light	129.38	37.84
26 55 53 11-0205	EA	Vandal Shield For Ruud Flood Light	153.79	37.84
26 55 53 11-0206	EA	Pipe Mounting Bracket For Ruud Flood Light	310.03	113.52
26 55 53 11-0207	EA	120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	97.65	37.84
26 55 53 11-0208		Flood Lights (Lumark) (26 55 53 11)		
26 55 53 11-0209		QZ Wedge Series Quartz Lumark Flood Lights (26 55 53 11-0208) Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0210	EA	500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	276.96	113.52
26 55 53 11-0211		LQL Series Quartz Lumark Flood Lights (26 55 53 11-0208) Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0212	EA	1,500 Watt LQL Series Quartz Lumark Flood Light	348.96	113.52
26 55 53 11-0213		Flood Lights (Kim Lighting) (26 55 53 11)		
26 55 53 11-0214		MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0213) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0215		LED MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0214)		



		Electrical	26
		Lighting	26 50
		Special Purpose Lighting	26 55

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0216 EA 5 Watt, LED MicroFlood® Series Kim Lighting Flood Light For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	575.64 -16.77 -31.16 -57.56 -83.97	47.52
26 55 53 11-0217 EA 15 Watt, LED MicroFlood® Series Kim Lighting Flood Light..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	711.11 -20.15 -37.93 -71.11 -104.29	47.52
26 55 53 11-0218 Scarab® Series Kim Lighting Flood Lights (26 55 53 11-0213) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0219 LED Scarab® Series Kim Lighting Accent Flood Lights (26 55 53 11-0218) Note: Spot or narrow style accent flood lights.		
26 55 53 11-0220 EA 6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	877.51 -24.31 -46.25 -87.75 -129.25	47.52
26 55 53 11-0221 Flood Lights (CREE® BetaLED®) (26 55 53 11-0221)		
26 55 53 11-0222 Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) (26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0223 EA 40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	1,133.76 -35.17 -63.52 -113.38 -163.24	136.54
26 55 53 11-0224 EA 60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	1,240.03 -38.21 -69.21 -124.00 -178.80	144.12
26 55 53 11-0225 Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) (26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0226 EA 20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	988.23 113.84 -31.15 -55.86 -98.82 -141.79	128.96
26 55 53 11-0227 EA 40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	1,234.28 113.84 -37.68 -68.54 -123.43 -178.32	136.54
26 55 53 11-0228 EA 60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	1,480.33 113.84 -44.21 -81.22 -148.03 -214.84	144.12
26 55 53 11-0229 EA 80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	1,819.04 113.84 -53.06 -98.54 -181.90 -265.27	151.72
26 55 53 11-0230 EA 100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	2,065.09 113.84 -59.59 -111.22 -206.51 -301.80	159.30
26 55 53 11-0231 EA 120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)..... For 347-480 Volt, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	2,311.13 113.84 -66.12 -123.90 -231.11 -338.33	166.88

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0232	EA	140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,631.00	174.46
		For 347-480 Volt, Add	113.84	
		For >50 To 100, Deduct	-74.50	
		For >100 To 250, Deduct	-140.27	
		For >250 To 500, Deduct	-263.10	
		For >500, Deduct	-385.93	
26 55 53 11-0233	EA	160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,877.05	182.05
		For 347-480 Volt, Add	113.84	
		For >50 To 100, Deduct	-81.03	
		For >100 To 250, Deduct	-152.96	
		For >250 To 500, Deduct	-287.71	
		For >500, Deduct	-422.45	
26 55 53 11-0234		Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) (26 55 53 11-0221)		
		Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0235	EA	120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	2,218.47	166.88
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Bird Spikes, Add	45.87	
		For 5,000K Color Temperature, Add	46.31	
		For Fuse, Add	55.57	
		For 0 To 10 Volt Dimming, Add	55.57	
		For 480 Volt, Add	83.36	
		For Multi-Level, Add	120.40	
		For 1,000mA Driver, Add	155.60	
		For >50 To 100, Deduct	-63.81	
		For >100 To 250, Deduct	-119.27	
		For >250 To 500, Deduct	-221.85	
		For >500, Deduct	-324.43	
26 55 53 11-0236	EA	240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	3,733.63	204.81
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For 5,000K Color Temperature, Add	46.31	
		For Fuse, Add	55.57	
		For 0 To 10 Volt Dimming, Add	55.57	
		For Bird Spikes, Add	67.17	
		For Multi-Level, Add	120.40	
		For 1,000mA Driver, Add	155.60	
		For 480 Volt, Add	166.71	
		For >50 To 100, Deduct	-103.58	
		For >100 To 250, Deduct	-196.92	
		For >250 To 500, Deduct	-373.36	
		For >500, Deduct	-549.80	
26 55 53 11-0237		Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) (26 55 53 11-0221)		
		Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0238	EA	112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL)	1,325.71	166.88
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Front Facing Optics, Back Light Shield, Add	36.13	
		For Rotated Optics, Back Light Shield, Add	36.13	
		For Field Adjustable Output, Add	27.79	
		For Fuse, Add	55.57	
		For 0 To 10 Volt Dimming, Add	55.57	
		For Multi-Level, Add	120.40	
		For >50 To 100, Deduct	-41.49	
		For >100 To 250, Deduct	-74.63	
		For >250 To 500, Deduct	-132.57	
		For >500, Deduct	-190.51	
26 55 53 11-0239	EA	168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL)	1,413.24	166.88
		Note: Type III, IV or V medium optics only.		
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Front Facing Optics, Back Light Shield, Add	36.13	
		For Rotated Optics, Back Light Shield, Add	36.13	
		For Field Adjustable Output, Add	27.79	
		For Fuse, Add	55.57	
		For 0 To 10 Volt Dimming, Add	55.57	
		For Type II Medium Or Type V Short Optics, Add	602.16	
		For Multi-Level, Add	120.40	
		For >50 To 100, Deduct	-43.68	
		For >100 To 250, Deduct	-79.01	
		For >250 To 500, Deduct	-141.32	
		For >500, Deduct	-203.64	



Electrical			26
Lighting			26 50
Special Purpose Lighting			26 55

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0240	EA		223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Field Adjustable Output, Add</i> <i>For Front Facing Optics, Back Light Shield, Add</i> <i>For Rotated Optics, Back Light Shield, Add</i> <i>For Fuse, Add</i> <i>For 0 To 10 Volt Dimming, Add</i> <i>For Multi-Level, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1,810.02 18.52 27.79 43.82 43.82 55.57 55.57 120.40 -55.49 -100.74 -181.00 -261.26	204.81
26 55 53 11-0241			Flood Lights (PlanLED) (26 55 53 11)		
26 55 53 11-0242			Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) (26 55 53 11-0241)		
26 55 53 11-0243	EA		6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	710.41 -24.59 -42.35 -71.04 -99.73	136.54
26 55 53 11-0244	EA		9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	848.92 -28.43 -49.65 -84.89 -120.13	144.12
26 55 53 11-0245	EA		12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	979.32 -32.26 -56.74 -97.93 -139.12	155.50
26 55 53 11-0246			Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) (26 55 53 11-0241)		
26 55 53 11-0247	EA		21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200) <i>For 0 To 10 Volt Dimming, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1,986.10 96.89 -64.82 -114.48 -198.61 -282.74	303.42
26 55 53 11-0248	EA		42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400) <i>For 0 To 10 Volt Dimming, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	3,073.80 96.89 -92.02 -168.86 -307.38 -445.90	303.42
26 55 53 11-0249	EA		84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800) <i>For 0 To 10 Volt Dimming, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	5,415.18 96.89 -150.55 -285.93 -541.52 -797.11	303.42
26 55 53 11-0250			Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) (26 55 53 11-0241)		
26 55 53 11-0251	EA		26,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200) <i>For 0 To 10 Volt Dimming, Add</i> <i>For 347-480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1,755.77 96.89 145.78 -53.76 -97.65 -175.58 -253.50	197.22
26 55 53 11-0252	EA		39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300) <i>For 0 To 10 Volt Dimming, Add</i> <i>For 347-480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2,246.39 96.89 117.75 -66.40 -122.56 -224.64 -326.72	204.81
26 55 53 11-0253	EA		52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400) <i>For 0 To 10 Volt Dimming, Add</i> <i>For 347-480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2,864.84 96.89 95.48 -82.24 -153.86 -286.48 -419.11	212.39
26 55 53 11-0254			Flood Lights (Everlast) (26 55 53 11)		

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0255		Yoke Mount, Square, LED Flood Lights (Everlast EL-LED-FL) ^(26 55 53 11-0254) Note: UL wet listed. Includes 2,700K, 4,000K or 5,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and black powder coat finish. Excludes sensors.		
26 55 53 11-0256	EA	100 Watt, 11,000 Lumens, Yoke Mount, Wet Location, LED Floodlight (Everlast EL-LED-FL)	761.09	133.71
		For >50 To 100, Deduct	-24.60	
		For >100 To 250, Deduct	-43.63	
		For >250 To 500, Deduct	-76.11	
		For >500, Deduct	-108.59	
26 55 53 11-0257	EA	150 Watt, 16,500 Lumens, Yoke Mount, Wet Location, LED Floodlight (Everlast EL-LED-FL)	862.01	133.71
		For >50 To 100, Deduct	-27.12	
		For >100 To 250, Deduct	-48.67	
		For >250 To 500, Deduct	-86.20	
		For >500, Deduct	-123.73	
26 55 53 11-0258	EA	200 Watt, 22,000 Lumens, Yoke Mount, Wet Location, LED Floodlight (Everlast EL-LED-FL)	996.57	133.71
		For >50 To 100, Deduct	-30.49	
		For >100 To 250, Deduct	-55.40	
		For >250 To 500, Deduct	-99.66	
		For >500, Deduct	-143.91	
26 55 53 11-0259		High Mast Flood Lights (Carolina) ^(26 55 53 11) Note: Installation and demolition includes a line truck with an aerial platform.		
26 55 53 11-0260		Adjustable Arm Mount, LED High Mast Flood Lights With Wireless Control Node (Carolina High Mast UltraSpot LED) ^(26 55 53 11-0259) Note: Includes a General Electric LightGrid™ outdoor wireless control node.		
26 55 53 11-0261	EA	30,000 Lumens, 320 Watt, Adjustable Arm Mount, LED High Mast Flood Light With Wireless Control Node (Carolina High Mast USLED-01-G-01-50-70-M-1 ELWN0A5UG5)	3,592.65	34.14
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
		For >50 To 100, Deduct	-93.61	
		For >100 To 250, Deduct	-183.43	
		For >250 To 500, Deduct	-359.27	
		For >500, Deduct	-535.10	
		For Up To 1,000, Add	344.09	
26 55 53 11-0262	EA	65,000 Lumens, 640 Watt, Adjustable Arm Mount, LED High Mast Flood Light With Wireless Control Node (Carolina High Mast USLED-02-G-01-50-70-M-1 ELWN0A5UG5)	5,380.40	34.14
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
		For >50 To 100, Deduct	-138.30	
		For >100 To 250, Deduct	-272.81	
		For >250 To 500, Deduct	-538.04	
		For >500, Deduct	-803.27	
		For Up To 1,000, Add	522.87	
26 55 63		Detention Lighting ^(26 55)		
26 55 63 00-0001		Maximum Security Recessed Luminaire ^(26 55 63) Note: Failsafe - FMR series.		
26 55 63 00-0002	EA	12" x 48", Two 32 Watt, T8 Fluorescent Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,306.71	44.55
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.		
26 55 63 00-0003	EA	12" x 48", Three 32 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,433.79	44.55
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.		
26 55 63 00-0004	EA	24" x 24", Two 17 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,256.72	53.47
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.		
26 55 63 00-0005	EA	24" x 48", Two 32 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,715.02	62.39
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.		
26 55 63 00-0006	EA	24" x 48", Three 32 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,715.02	62.39
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.		
26 55 63 00-0007	EA	24" x 48", Four 32 Watt, Lamps, 14 Gauge, Maximum Security Recessed Luminaire	1,715.02	62.39
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.		
26 55 63 00-0008	EA	12" x 48", Two 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,306.71	44.55
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.		
26 55 63 00-0009	EA	12" x 48", Three 32 Watt, Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,497.32	44.55
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.		
26 55 63 00-0010	EA	24" x 24", Two 17 Watt, T8 Fluorescent Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,320.26	53.48
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.187" clear tempered glass environmental side.		
26 55 63 00-0011	EA	24" x 48", Two 32 Watt, Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,524.41	62.39
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.187" clear tempered glass environmental side.		
26 55 63 00-0012	EA	24" x 48", Three 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,524.41	62.39
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.187" clear tempered glass environmental side.		
26 55 63 00-0013	EA	24" x 48", Four 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Maximum Security Recessed Luminaire	1,524.41	62.39
		Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.187" clear tempered glass environmental side.		



Electrical		26
Lighting		26 50
Special Purpose Lighting		26 55

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 63 00-0014 EA 12" x 48", Two 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.	1,147.87	44.55
26 55 63 00-0015 EA 12" x 48", Three 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.	1,147.87	44.55
26 55 63 00-0016 EA 24" x 24", Two 17 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.	1,383.80	53.47
26 55 63 00-0017 EA 24" x 48", Two 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.	1,651.49	62.39
26 55 63 00-0018 EA 24" x 48", Three 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.	1,664.19	62.39
26 55 63 00-0019 EA 24" x 48", Four 32 Watt, Lamps, 18 Gauge, Maximum Security Recessed Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate.	1,664.19	62.39
26 55 63 00-0020 Maximum Security Surface Luminaire (26 55 63) Note: Failsafe - FMR series.		
26 55 63 00-0021 EA 12" x 24", Two 32 Watt, Lamps, 12 Gauge, Maximum Security Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.	1,179.64	44.55
26 55 63 00-0022 EA 12" x 24", Three 32 Watt, Lamps, 12 Gauge, Maximum Security Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.	1,465.55	44.55
26 55 63 00-0023 EA 12" x 48", Two 32 Watt, Lamps, 14 Gauge, Maximum Security Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.	1,116.10	44.55
26 55 63 00-0024 EA 12" x 48", Three 32 Watt, Lamps, 14 Gauge, Maximum Security Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.	1,116.10	44.55
26 55 63 00-0025 EA 19" x 24", Two 17 Watt, Lamps, 14 Gauge, Maximum Security Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.	1,097.88	53.47
26 55 63 00-0026 EA 19" x 48", Two 32 Watt, Lamps, 14 Gauge, Maximum Security Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.	1,358.80	57.93
26 55 63 00-0027 EA 19" x 48", Three 32 Watt, Lamps, 14 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.	1,390.57	57.93
26 55 63 00-0028 EA 16" x 48", Four 32 Watt, T8 Fluorescent Lamps, 14 Gauge, Maximum Security Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.005" UV absorbing inner layer overlay, 0.375" clear polycarbonate environmental side.	1,390.57	57.93
26 55 63 00-0029 Ultimax Surface Luminaire (26 55 63) Note: Failsafe - FMR series.		
26 55 63 00-0030 EA 12" x 48", Two 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,088.93	44.55
26 55 63 00-0031 EA 12" x 48", Three 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,411.74	44.55
26 55 63 00-0032 EA 24" x 24", Two 17 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,210.57	53.47
26 55 63 00-0033 EA 24" x 48", Two 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,243.09	62.39
26 55 63 00-0034 EA 24" x 48", Three 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,248.22	62.39
26 55 63 00-0035 EA 24" x 48", Four 32 Watt, T8 Fluorescent Lamps, 16 Gauge, Ultimax Surface Luminaire Note: Includes one electronic ballast for T8 lamps, 0.125" prismatic acrylic fixture side lens and 0.250" clear tempered glass environmental side lens.	1,253.35	62.39
26 55 63 00-0036 Maximum Security Wall Luminaire (26 55 63) Note: Failsafe - FMR series.		
26 55 63 00-0037 EA 10.5" x 48", Two 32 Watt Lamps, 14 Gauge, Maximum Security Wall Luminaire Note: 1 up, 1 down, 1 electronic ballast for T8 lamps. 0.005" UV absorbing inner level overlay, 0.375" clear polycarbonate environmental side.	1,433.79	44.71
26 55 63 00-0038 EA 10.5" x 48", Three 32 Watt, T8 Lamps, 14 Gauge, Maximum Security Wall Luminaire Note: 1 up, 2 down, 1 electronic ballast for T8 lamps. 0.005" UV absorbing inner level overlay, 0.375" clear polycarbonate environmental side.	1,433.79	44.71
26 55 63 00-0039 EA 10.5" x 48", Four 32 Watt, T8 Lamps, 14 Gauge, Maximum Security Wall Luminaire Note: 2 up, 2 down, 1 electronic ballast for T8 lamps. 0.005" UV absorbing inner level overlay, 0.375" clear polycarbonate environmental side.	1,433.79	44.71
26 55 63 00-0040 LED Security Recessed Luminaire (26 55 63) Note: LCDoane CRC-LED		

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 63 00-0041	EA	2' x 2', 2794 Lumens LED, 3500K(80cri), 14 Gauge Cold Rolled Steel White, 120-277V, Vandal Resistant (LCD CRC-22-2W28-35-80-X-C-W-VAR-DM-122-3-8-TP-D "NL-LED")	946.52	53.47
26 55 63 00-0042	EA	2' x 4', 4514 Lumens LED, 3500K(80cri), 14 Gauge Cold Rolled Steel White, 120-277V, Vandal Resistant (LCDoane CRC-24-2W43-35-80-X-C-W-VAR-DM-122-3-8-TP-D "NL-LED")	1,345.63	62.39
26 55 63 00-0043		LED Fixtures And Accessories (Kenall) (26 55 63)		
		Note: UL Listed		
26 55 63 00-0044	EA	24" x 48", 4,489 Lumens, 45 Watt, 120-277 Voltage, Dimming, Recessed Ceiling Mount, Mighty Mac™ LED Fixture (Kenall RMCD-4-FL/TR-0/0-45L35K-DCC- - DV-2/C-1-DLN)	2,075.52	62.39
26 55 63 00-0045	EA	12" x 48", 5,644 Lumens, 67 Watt, 120-277 Voltage, Dimming, Recessed Ceiling Mount, Mighty Mac™ LED Fixture (Kenall RMCA-4-FL/TR-0/0-67L35K-DCC- - DV-69/C-1-DLN)	1,572.06	44.55
26 55 63 00-0046	EA	24" x 48", 5,590 Lumens, 45 Watt, 120 Voltage, Dimming, Surface Ceiling Mount, Mighty Mac™ LED Fixture (Kenall SSD-4-0/0-45LE5K-DCC- - 120-69/C-1-DLN IHF)	2,090.56	62.39
26 55 63 00-0047	EA	12" x 48", 4,938 Lumens, 45 Watt, 120 Voltage, Dimming, Surface Ceiling Mount, Mighty Mac™ LED Fixture (Kenall SSA-4-0/0-45LE5K-DCC- - 120-2/C-1-IHF)	1,332.62	44.55
26 55 63 00-0048	EA	12" x 48", 4,938 Lumens, 45 Watt, 120 Voltage, Dimming, Surface Ceiling Mount, Mighty Mac™ LED Fixture (Kenall SSA-4-3/3-45LE5K-DCC- - 120-69/C-1-DLN IHF WL)	1,641.01	44.55
26 55 63 00-0049	EA	5" x 48", 5,325 Lumens, 45 Watt, 120-277 Voltage, Dimming, Surface Mount, Nova IT™ LED Fixture (Kenall N548-P-1-1-45L35K-1-DV)	476.17	53.47
26 55 63 00-0050	EA	24" x 24", 4,027 Lumens, 45 Watt, 120-277 Voltage, Dimming, Recessed Ceiling Mount, Mighty Mac™ LED Fixture (Kenall RMCD-2-FL/TR-0/0-45L35K-DCC- - DV-2/C-1)	1,222.07	53.47
26 55 63 00-0051	EA	15" Diameter x 5.50" Deep, 25 Watt, 120-277 Voltage, Surface Mount, Rough-House™ LED Fixture (Kenall RHR15D-W-PP-25L35K-DV-PH-SC)	654.19	53.47
26 55 63 00-0052	EA	14 Gauge Stainless Steel, Single Gang, Mighty Mac™ Wall Surface Mount Plate (Kenall WSP-3-1-S)	67.54	3.06
26 55 63 00-0053	EA	14 Gauge Stainless Steel, Double Gang, Mighty Mac™ Wall Surface Mount Plate (Kenall WSP-3-2-S)	89.80	3.53
26 55 63 00-0054	EA	14 Gauge Stainless Steel, Triple Gang, Mighty Mac™ Wall Surface Mount Plate (Kenall WSP-3-3-S)	111.92	3.94
26 55 63 00-0055	EA	8" x 48", 6,703 Lumens, 67 Watt, 277 Voltage, Dimming, Recessed Ceiling Mount, Mighty Mac™ LED Fixture (Kenall CD-4-0/0-67L35K-DCC-DV-69-1-DLN-IHF)	1,246.14	44.55
		Note: Clear polycarbonate outer lens with prismatic polycarbonate inner lens		
26 55 63 00-0056	EA	8" x 48", 6,703 Lumens, 67 Watt, 277 Voltage, Dimming, Recessed Ceiling Mount, Mighty Mac™ LED Fixture (Kenall CD-4-0/0-67L35K-DCC-DV-2P-1-DLN-IHF)	1,456.42	44.55
		Note: Clear tempered glass outer lens with prismatic polycarbonate inner lens		
26 55 63 00-0057	EA	Single Face, 120-277 Voltage, Surface Mount, LED Exit Sign Fixture (Kenall MMEX-1-6-G-DT-1)	1,098.09	49.52
26 55 63 00-0058	EA	Double Face, 120-277 Voltage, Surface Mount, LED Exit Sign Fixture (Kenall MMEX-2-6-G-DT-1)	1,196.81	49.52
26 55 68		Athletic Field Lighting (26 55)		
26 55 68 00-0001		Sports Lighting System (26 55 68)		
		Note: Musco.		
26 55 68 00-0002		Round Steel Tapered Poles (26 55 68 00-0001)		
		Note: With Internal wiring harness.		
26 55 68 00-0003	EA	20' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,382.36	726.54
26 55 68 00-0004	EA	25' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,273.21	877.90
26 55 68 00-0005	EA	30' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,944.42	953.58
26 55 68 00-0006	EA	35' Steel Tapered Pole With Precast Concrete Foundation Sleeve	6,501.99	991.42
26 55 68 00-0007	EA	40' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,163.73	1,029.26
26 55 68 00-0008	EA	45' Steel Tapered Pole With Precast Concrete Foundation Sleeve	9,366.67	1,256.30
26 55 68 00-0009	EA	50' Steel Tapered Pole With Precast Concrete Foundation Sleeve	10,066.37	1,331.99
26 55 68 00-0010	EA	55' Steel Tapered Pole With Precast Concrete Foundation Sleeve	11,434.89	1,513.62
26 55 68 00-0011	EA	60' Steel Tapered Pole With Precast Concrete Foundation Sleeve	12,983.06	1,702.82
26 55 68 00-0012	EA	65' Steel Tapered Pole With Precast Concrete Foundation Sleeve	14,352.45	1,875.74
26 55 68 00-0013	EA	70' Steel Tapered Pole With Precast Concrete Foundation Sleeve	15,652.85	2,096.42
26 55 68 00-0014	EA	75' Steel Tapered Pole With Precast Concrete Foundation Sleeve	17,063.36	2,353.87
26 55 68 00-0015	EA	80' Steel Tapered Pole With Precast Concrete Foundation Sleeve	19,134.53	2,832.01
26 55 68 00-0016		Steel Pole Brackets (26 55 68 00-0001)		
26 55 68 00-0017	EA	Two Light Bracket	683.32	75.68
26 55 68 00-0018	EA	Three Light Bracket	859.46	105.96
26 55 68 00-0019	EA	Four Light Bracket	1,240.30	128.65
26 55 68 00-0020	EA	Five Light Bracket	1,412.48	151.36
26 55 68 00-0021	EA	Six Light Bracket	1,713.76	174.07
26 55 68 00-0022	EA	Seven Light Bracket	1,962.34	196.77
26 55 68 00-0023	EA	Eight Light Bracket	2,243.98	227.04
26 55 68 00-0024	EA	Nine Light Bracket	2,535.60	249.75
26 55 68 00-0025		Light Fixtures (26 55 68 00-0001)		
26 55 68 00-0026	EA	120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug <i>For 1,500 Watt Metal Halide Lamp, Add</i>	1,506.24 16.01	
26 55 68 00-0027		Electrical Component Enclosure (26 55 68 00-0001)		
		Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 55 68 00-0028	EA	Electrical Component Enclosure For 2 Lights, Pole Mounted	1,081.30	88.06
26 55 68 00-0029	EA	Electrical Component Enclosure For 3 Lights, Pole Mounted	1,622.68	135.48
26 55 68 00-0030	EA	Electrical Component Enclosure For 4 Lights, Pole Mounted	1,861.72	169.34
26 55 68 00-0031	EA	Electrical Component Enclosure For 5 Lights, Pole Mounted	2,406.94	189.67
26 55 68 00-0032	EA	Electrical Component Enclosure For 6 Lights, Pole Mounted	2,706.32	203.21



Electrical		26
Lighting		26 50
Special Purpose Lighting		26 55

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 68 00-0033 Accessories (26 55 68 00-0001)		
26 55 68 00-0034 EA Time Delay Kit (Musco®).....	1,108.04	271.55
26 55 68 00-0035 EA Remote Switch Box Push Button (Musco®).....	2,237.92	271.55
26 55 68 00-0036 EA Push Button Strobe Kit (Musco®).....	2,689.88	271.55
26 55 68 00-0037 EA Additional Control-Link Unit (Musco®).....	12,928.12	814.64
26 55 68 00-0038 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®).....	1,400.83	135.48
26 55 68 00-0039 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®).....	1,671.79	270.95
26 56 Exterior Lighting (26 50)		
26 56 13 Lighting Poles and Standards (26 56)		
26 56 13 00-0001 Poles And Standards (26 56 13)		
See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.		
26 56 13 00-0002 Roadway Light Poles (26 56 13 00-0001)		
Note: Excludes lighting fixtures.		
26 56 13 00-0003 Steel Roadway Light Poles (26 56 13 00-0002)		
Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0004 Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)		
26 56 13 00-0005 Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)		
26 56 13 00-0006 Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)		
26 56 13 00-0007 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,824.85	454.09
For Galvanized Finish, Add	57.50	
For >10 To 20, Deduct	-70.62	
For >20 To 40, Deduct	-141.24	
For >40, Deduct	-234.57	
26 56 13 00-0008 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,829.59	454.09
For Galvanized Finish, Add	57.64	
For >10 To 20, Deduct	-70.74	
For >20 To 40, Deduct	-141.48	
For >40, Deduct	-234.92	
26 56 13 00-0009 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,160.39	605.45
For Galvanized Finish, Add	58.48	
For >10 To 20, Deduct	-79.01	
For >20 To 40, Deduct	-158.02	
For >40, Deduct	-267.30	
26 56 13 00-0010 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,217.35	605.45
For Galvanized Finish, Add	60.19	
For >10 To 20, Deduct	-80.43	
For >20 To 40, Deduct	-160.87	
For >40, Deduct	-271.57	
26 56 13 00-0011 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,274.32	605.45
For Galvanized Finish, Add	61.90	
For >10 To 20, Deduct	-81.66	
For >20 To 40, Deduct	-163.72	
For >40, Deduct	-275.85	
26 56 13 00-0012 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,437.67	681.12
For Galvanized Finish, Add	62.26	
For >10 To 20, Deduct	-85.94	
For >20 To 40, Deduct	-171.88	
For >40, Deduct	-291.88	
26 56 13 00-0013 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,464.69	681.12
For Galvanized Finish, Add	63.07	
For >10 To 20, Deduct	-86.62	
For >20 To 40, Deduct	-173.23	
For >40, Deduct	-293.91	
26 56 13 00-0014 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,469.83	681.12
For Galvanized Finish, Add	63.23	
For >10 To 20, Deduct	-86.75	
For >20 To 40, Deduct	-173.49	
For >40, Deduct	-294.29	
26 56 13 00-0015 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,641.39	718.97
For Galvanized Finish, Add	66.10	
For >10 To 20, Deduct	-91.03	
For >20 To 40, Deduct	-182.07	
For >40, Deduct	-309.05	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0016	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base		3,661.79	718.97
		For Galvanized Finish, Add		66.72	
		For >10 To 20, Deduct		-91.54	
		For >20 To 40, Deduct		-183.09	
		For >40, Deduct		-310.58	
26 56 13 00-0017	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base		3,684.07	718.97
		For Galvanized Finish, Add		67.38	
		For >10 To 20, Deduct		-92.10	
		For >20 To 40, Deduct		-184.20	
		For >40, Deduct		-312.25	
26 56 13 00-0018	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base		4,158.83	756.81
		For Galvanized Finish, Add		79.36	
		For >10 To 20, Deduct		-103.97	
		For >20 To 40, Deduct		-207.94	
		For >40, Deduct		-349.75	
26 56 13 00-0019	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base		4,166.10	756.81
		For Galvanized Finish, Add		79.57	
		For >10 To 20, Deduct		-104.15	
		For >20 To 40, Deduct		-208.31	
		For >40, Deduct		-350.30	
26 56 13 00-0020	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base		4,173.28	756.81
		For Galvanized Finish, Add		79.79	
		For >10 To 20, Deduct		-104.33	
		For >20 To 40, Deduct		-208.66	
		For >40, Deduct		-350.84	
26 56 13 00-0021 Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0005)					
26 56 13 00-0022	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base		3,493.21	529.76
		For Galvanized Finish, Add		73.01	
		For >10 To 20, Deduct		-87.33	
		For >20 To 40, Deduct		-174.66	
		For >40, Deduct		-288.48	
26 56 13 00-0023	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base		3,561.50	548.68
		For Galvanized Finish, Add		73.92	
		For >10 To 20, Deduct		-89.04	
		For >20 To 40, Deduct		-178.08	
		For >40, Deduct		-294.55	
26 56 13 00-0024	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base		3,622.26	567.61
		For Galvanized Finish, Add		74.61	
		For >10 To 20, Deduct		-90.56	
		For >20 To 40, Deduct		-181.11	
		For >40, Deduct		-300.05	
26 56 13 00-0025	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base		3,598.61	681.12
		For Galvanized Finish, Add		67.09	
		For >10 To 20, Deduct		-89.97	
		For >20 To 40, Deduct		-179.93	
		For >40, Deduct		-303.95	
26 56 13 00-0026	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base		3,648.52	700.05
		For Galvanized Finish, Add		67.45	
		For >10 To 20, Deduct		-91.21	
		For >20 To 40, Deduct		-182.43	
		For >40, Deduct		-308.64	
26 56 13 00-0027	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base		3,691.25	718.97
		For Galvanized Finish, Add		67.60	
		For >10 To 20, Deduct		-92.28	
		For >20 To 40, Deduct		-184.56	
		For >40, Deduct		-312.79	
26 56 13 00-0028	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base		3,899.15	756.81
		For Galvanized Finish, Add		71.57	
		For >10 To 20, Deduct		-97.48	
		For >20 To 40, Deduct		-194.96	
		For >40, Deduct		-330.28	
26 56 13 00-0029	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base		3,944.33	775.73
		For Galvanized Finish, Add		71.79	
		For >10 To 20, Deduct		-98.61	
		For >20 To 40, Deduct		-197.22	
		For >40, Deduct		-334.61	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0030	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,986.83	794.65
			For Galvanized Finish, Add	71.93	
			For >10 To 20, Deduct	-99.67	
			For >20 To 40, Deduct	-199.34	
			For >40, Deduct	-338.74	
26 56 13 00-0031	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,131.11	794.65
			For Galvanized Finish, Add	76.25	
			For >10 To 20, Deduct	-103.28	
			For >20 To 40, Deduct	-206.56	
			For >40, Deduct	-349.57	
26 56 13 00-0032	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,200.54	813.56
			For Galvanized Finish, Add	77.20	
			For >10 To 20, Deduct	-105.01	
			For >20 To 40, Deduct	-210.03	
			For >40, Deduct	-355.72	
26 56 13 00-0033	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,268.33	832.49
			For Galvanized Finish, Add	78.10	
			For >10 To 20, Deduct	-106.71	
			For >20 To 40, Deduct	-213.42	
			For >40, Deduct	-361.75	
26 56 13 00-0034	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,620.47	832.49
			For Galvanized Finish, Add	88.66	
			For >10 To 20, Deduct	-115.51	
			For >20 To 40, Deduct	-231.02	
			For >40, Deduct	-388.16	
26 56 13 00-0035	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,663.04	851.41
			For Galvanized Finish, Add	88.81	
			For >10 To 20, Deduct	-116.58	
			For >20 To 40, Deduct	-233.15	
			For >40, Deduct	-392.30	
26 56 13 00-0036	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,705.78	870.33
			For Galvanized Finish, Add	88.95	
			For >10 To 20, Deduct	-117.64	
			For >20 To 40, Deduct	-235.29	
			For >40, Deduct	-396.45	

26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0005)

26 56 13 00-0038	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,197.35	756.81
			For Galvanized Finish, Add	80.51	
			For >10 To 20, Deduct	-104.93	
			For >20 To 40, Deduct	-209.87	
			For >40, Deduct	-352.64	
26 56 13 00-0039	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,277.85	794.65
			For Galvanized Finish, Add	80.66	
			For >10 To 20, Deduct	-106.95	
			For >20 To 40, Deduct	-213.89	
			For >40, Deduct	-360.57	
26 56 13 00-0040	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,365.52	832.49
			For Galvanized Finish, Add	81.02	
			For >10 To 20, Deduct	-109.14	
			For >20 To 40, Deduct	-218.28	
			For >40, Deduct	-369.04	
26 56 13 00-0041	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,469.00	832.49
			For Galvanized Finish, Add	84.12	
			For >10 To 20, Deduct	-111.73	
			For >20 To 40, Deduct	-223.45	
			For >40, Deduct	-376.80	
26 56 13 00-0042	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,551.78	870.33
			For Galvanized Finish, Add	84.33	
			For >10 To 20, Deduct	-113.79	
			For >20 To 40, Deduct	-227.59	
			For >40, Deduct	-384.90	
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,632.28	908.17
			For Galvanized Finish, Add	84.48	
			For >10 To 20, Deduct	-115.81	
			For >20 To 40, Deduct	-231.61	
			For >40, Deduct	-392.83	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,741.69	870.33
			For Galvanized Finish, Add	90.03	
			For >10 To 20, Deduct	-118.54	
			For >20 To 40, Deduct	-237.08	
			For >40, Deduct	-399.14	
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,822.18	908.17
			For Galvanized Finish, Add	90.18	
			For >10 To 20, Deduct	-120.55	
			For >20 To 40, Deduct	-241.11	
			For >40, Deduct	-407.07	
26 56 13 00-0046	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	4,902.68	946.02
			For Galvanized Finish, Add	90.32	
			For >10 To 20, Deduct	-122.57	
			For >20 To 40, Deduct	-245.13	
			For >40, Deduct	-415.00	
26 56 13 00-0047	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,082.11	908.17
			For Galvanized Finish, Add	97.97	
			For >10 To 20, Deduct	-127.05	
			For >20 To 40, Deduct	-254.11	
			For >40, Deduct	-426.57	
26 56 13 00-0048	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,162.36	946.02
			For Galvanized Finish, Add	98.11	
			For >10 To 20, Deduct	-129.06	
			For >20 To 40, Deduct	-258.12	
			For >40, Deduct	-434.48	
26 56 13 00-0049	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	5,247.68	983.85
			For Galvanized Finish, Add	98.40	
			For >10 To 20, Deduct	-131.19	
			For >20 To 40, Deduct	-262.38	
			For >40, Deduct	-442.77	
26 56 13 00-0050 Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms					
			(26 56 13 00-0005)		
26 56 13 00-0051	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,661.36	832.49
			For Galvanized Finish, Add	89.89	
			For >10 To 20, Deduct	-116.53	
			For >20 To 40, Deduct	-233.07	
			For >40, Deduct	-391.23	
26 56 13 00-0052	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,782.06	889.25
			For Galvanized Finish, Add	90.11	
			For >10 To 20, Deduct	-119.55	
			For >20 To 40, Deduct	-239.10	
			For >40, Deduct	-403.12	
26 56 13 00-0053	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	4,900.31	946.02
			For Galvanized Finish, Add	90.25	
			For >10 To 20, Deduct	-122.51	
			For >20 To 40, Deduct	-245.02	
			For >40, Deduct	-414.82	
26 56 13 00-0054	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,962.47	908.17
			For Galvanized Finish, Add	94.38	
			For >10 To 20, Deduct	-124.06	
			For >20 To 40, Deduct	-248.12	
			For >40, Deduct	-417.59	
26 56 13 00-0055	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,081.05	964.93
			For Galvanized Finish, Add	94.54	
			For >10 To 20, Deduct	-127.03	
			For >20 To 40, Deduct	-254.05	
			For >40, Deduct	-429.33	
26 56 13 00-0056	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,171.88	1,021.69
			For Galvanized Finish, Add	93.86	
			For >10 To 20, Deduct	-129.30	
			For >20 To 40, Deduct	-258.59	
			For >40, Deduct	-438.98	
26 56 13 00-0057	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,311.46	946.02
			For Galvanized Finish, Add	102.58	
			For >10 To 20, Deduct	-132.79	
			For >20 To 40, Deduct	-265.57	
			For >40, Deduct	-445.66	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 56 13 00-0058	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,462.52	1,002.77
		For Galvanized Finish, Add	103.71	
		For >10 To 20, Deduct	-136.56	
		For >20 To 40, Deduct	-273.13	
		For >40, Deduct	-459.83	
26 56 13 00-0059	EA	35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	5,550.67	1,059.53
		For Galvanized Finish, Add	102.95	
		For >10 To 20, Deduct	-138.77	
		For >20 To 40, Deduct	-277.53	
		For >40, Deduct	-469.28	
26 56 13 00-0060	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,543.52	983.85
		For Galvanized Finish, Add	107.27	
		For >10 To 20, Deduct	-138.59	
		For >20 To 40, Deduct	-277.18	
		For >40, Deduct	-464.96	
26 56 13 00-0061	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,661.77	1,040.61
		For Galvanized Finish, Add	107.42	
		For >10 To 20, Deduct	-141.54	
		For >20 To 40, Deduct	-283.09	
		For >40, Deduct	-476.66	
26 56 13 00-0062	EA	40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	5,782.46	1,097.38
		For Galvanized Finish, Add	107.63	
		For >10 To 20, Deduct	-144.56	
		For >20 To 40, Deduct	-289.12	
		For >40, Deduct	-488.55	
26 56 13 00-0063		Round Tapered, Steel Roadway Light Poles With Davit Style Arm (26 56 13 00-0004)		
26 56 13 00-0064		Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0063)		
26 56 13 00-0065	EA	25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	3,336.67	605.45
		For Galvanized Finish, Add	63.77	
		For >10 To 20, Deduct	-83.42	
		For >20 To 40, Deduct	-166.63	
		For >40, Deduct	-280.52	
26 56 13 00-0066	EA	30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	3,772.93	681.12
		For Galvanized Finish, Add	72.32	
		For >10 To 20, Deduct	-94.32	
		For >20 To 40, Deduct	-188.65	
		For >40, Deduct	-317.03	
26 56 13 00-0067	EA	35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	3,888.26	718.97
		For Galvanized Finish, Add	73.51	
		For >10 To 20, Deduct	-97.21	
		For >20 To 40, Deduct	-194.41	
		For >40, Deduct	-327.57	
26 56 13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	4,572.43	756.81
		For Galvanized Finish, Add	91.76	
		For >10 To 20, Deduct	-114.31	
		For >20 To 40, Deduct	-228.62	
		For >40, Deduct	-380.77	
26 56 13 00-0069		Round Tapered, Steel Roadway Light Poles With Truss Style Arms (26 56 13 00-0004)		
26 56 13 00-0070		Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0069)		
26 56 13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,187.61	605.45
		For Galvanized Finish, Add	89.30	
		For >10 To 20, Deduct	-104.69	
		For >20 To 40, Deduct	-209.38	
		For >40, Deduct	-344.34	
26 56 13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,224.09	605.45
		For Galvanized Finish, Add	90.40	
		For >10 To 20, Deduct	-105.60	
		For >20 To 40, Deduct	-211.20	
		For >40, Deduct	-347.08	
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,240.74	605.45
		For Galvanized Finish, Add	90.90	
		For >10 To 20, Deduct	-106.02	
		For >20 To 40, Deduct	-212.04	
		For >40, Deduct	-348.33	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0074	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	4,375.45	681.12
			For Galvanized Finish, Add	90.40	
			For >10 To 20, Deduct	-109.39	
			For >20 To 40, Deduct	-218.77	
			For >40, Deduct	-362.22	
26 56 13 00-0075	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	4,381.82	681.12
			For Galvanized Finish, Add	90.59	
			For >10 To 20, Deduct	-109.55	
			For >20 To 40, Deduct	-219.09	
			For >40, Deduct	-362.69	
26 56 13 00-0076	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	4,447.59	681.12
			For Galvanized Finish, Add	92.56	
			For >10 To 20, Deduct	-111.19	
			For >20 To 40, Deduct	-222.38	
			For >40, Deduct	-367.63	
26 56 13 00-0077	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	4,472.75	718.97
			For Galvanized Finish, Add	91.04	
			For >10 To 20, Deduct	-111.82	
			For >20 To 40, Deduct	-223.64	
			For >40, Deduct	-371.40	
26 56 13 00-0078	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	4,511.27	718.97
			For Galvanized Finish, Add	92.20	
			For >10 To 20, Deduct	-112.78	
			For >20 To 40, Deduct	-225.56	
			For >40, Deduct	-374.29	
26 56 13 00-0079	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	4,713.25	718.97
			For Galvanized Finish, Add	98.26	
			For >10 To 20, Deduct	-117.83	
			For >20 To 40, Deduct	-235.66	
			For >40, Deduct	-389.44	
26 56 13 00-0080 Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0069)					
26 56 13 00-0081	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	5,460.83	756.81
			For Galvanized Finish, Add	118.42	
			For >10 To 20, Deduct	-136.52	
			For >20 To 40, Deduct	-273.04	
			For >40, Deduct	-447.40	
26 56 13 00-0082	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	5,571.44	794.65
			For Galvanized Finish, Add	119.46	
			For >10 To 20, Deduct	-139.29	
			For >20 To 40, Deduct	-278.57	
			For >40, Deduct	-457.59	
26 56 13 00-0083	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	5,784.22	832.49
			For Galvanized Finish, Add	123.58	
			For >10 To 20, Deduct	-144.61	
			For >20 To 40, Deduct	-289.21	
			For >40, Deduct	-475.44	
26 56 13 00-0084	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	5,591.95	832.49
			For Galvanized Finish, Add	117.81	
			For >10 To 20, Deduct	-139.80	
			For >20 To 40, Deduct	-279.60	
			For >40, Deduct	-461.02	
26 56 13 00-0085	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	5,848.07	870.33
			For Galvanized Finish, Add	123.22	
			For >10 To 20, Deduct	-146.20	
			For >20 To 40, Deduct	-292.40	
			For >40, Deduct	-482.12	
26 56 13 00-0086	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,012.54	908.17
			For Galvanized Finish, Add	125.89	
			For >10 To 20, Deduct	-150.31	
			For >20 To 40, Deduct	-300.63	
			For >40, Deduct	-496.35	
26 56 13 00-0087	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	5,768.42	870.33
			For Galvanized Finish, Add	120.83	
			For >10 To 20, Deduct	-144.21	
			For >20 To 40, Deduct	-288.42	
			For >40, Deduct	-476.15	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0088 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,101.50	908.17
For Galvanized Finish, Add	128.55	
For >10 To 20, Deduct	-152.54	
For >20 To 40, Deduct	-305.08	
For >40, Deduct	-503.02	
26 56 13 00-0089 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,309.38	946.02
For Galvanized Finish, Add	132.52	
For >10 To 20, Deduct	-157.73	
For >20 To 40, Deduct	-315.47	
For >40, Deduct	-520.50	
26 56 13 00-0090 Aluminum Roadway Light Poles (26 56 13 00-0002)		
Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091 Round Tapered, Aluminum Roadway Light Poles (26 56 13 00-0090)		
26 56 13 00-0092 Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0091)		
26 56 13 00-0093 Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0092)		
26 56 13 00-0094 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,758.01	454.09
For >10 To 20, Deduct	-68.95	
For >20 To 40, Deduct	-137.90	
For >40, Deduct	-229.56	
26 56 13 00-0095 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,780.40	454.09
For >10 To 20, Deduct	-69.51	
For >20 To 40, Deduct	-139.02	
For >40, Deduct	-231.23	
26 56 13 00-0096 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,398.75	605.45
For >10 To 20, Deduct	-84.97	
For >20 To 40, Deduct	-169.94	
For >40, Deduct	-285.18	
26 56 13 00-0097 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,441.06	605.45
For >10 To 20, Deduct	-86.03	
For >20 To 40, Deduct	-172.05	
For >40, Deduct	-288.35	
26 56 13 00-0098 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,479.97	605.45
For >10 To 20, Deduct	-87.00	
For >20 To 40, Deduct	-174.00	
For >40, Deduct	-291.27	
26 56 13 00-0099 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,896.29	681.12
For >10 To 20, Deduct	-97.41	
For >20 To 40, Deduct	-194.81	
For >40, Deduct	-326.28	
26 56 13 00-0100 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,931.99	681.12
For >10 To 20, Deduct	-98.30	
For >20 To 40, Deduct	-196.60	
For >40, Deduct	-328.96	
26 56 13 00-0101 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,971.91	681.12
For >10 To 20, Deduct	-99.30	
For >20 To 40, Deduct	-198.60	
For >40, Deduct	-331.95	
26 56 13 00-0102 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,536.75	718.97
For >10 To 20, Deduct	-113.42	
For >20 To 40, Deduct	-226.84	
For >40, Deduct	-376.20	
26 56 13 00-0103 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,572.36	718.97
For >10 To 20, Deduct	-114.31	
For >20 To 40, Deduct	-228.62	
For >40, Deduct	-378.88	
26 56 13 00-0104 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,602.18	718.97
For >10 To 20, Deduct	-115.05	
For >20 To 40, Deduct	-230.11	
For >40, Deduct	-381.11	
26 56 13 00-0105 Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0092)		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0106	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,163.59	529.76
			For >10 To 20, Deduct	-79.09	
			For >20 To 40, Deduct	-158.18	
			For >40, Deduct	-263.76	
26 56 13 00-0107	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,383.02	529.76
			For >10 To 20, Deduct	-84.58	
			For >20 To 40, Deduct	-169.15	
			For >40, Deduct	-280.21	
26 56 13 00-0108	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,501.47	567.61
			For >10 To 20, Deduct	-87.54	
			For >20 To 40, Deduct	-175.07	
			For >40, Deduct	-290.99	
26 56 13 00-0109	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,792.30	681.12
			For >10 To 20, Deduct	-94.81	
			For >20 To 40, Deduct	-189.62	
			For >40, Deduct	-318.48	
26 56 13 00-0110	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,969.82	700.05
			For >10 To 20, Deduct	-99.25	
			For >20 To 40, Deduct	-198.49	
			For >40, Deduct	-332.74	
26 56 13 00-0111	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,222.87	718.97
			For >10 To 20, Deduct	-105.57	
			For >20 To 40, Deduct	-211.14	
			For >40, Deduct	-352.66	
26 56 13 00-0112	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,366.75	756.81
			For >10 To 20, Deduct	-109.17	
			For >20 To 40, Deduct	-218.34	
			For >40, Deduct	-365.35	
26 56 13 00-0113	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,534.17	775.73
			For >10 To 20, Deduct	-113.35	
			For >20 To 40, Deduct	-226.71	
			For >40, Deduct	-378.85	
26 56 13 00-0114	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,737.03	794.65
			For >10 To 20, Deduct	-118.43	
			For >20 To 40, Deduct	-236.85	
			For >40, Deduct	-395.01	
26 56 13 00-0115	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,931.14	794.65
			For >10 To 20, Deduct	-123.28	
			For >20 To 40, Deduct	-246.56	
			For >40, Deduct	-409.57	
26 56 13 00-0116	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,372.98	813.56
			For >10 To 20, Deduct	-134.32	
			For >20 To 40, Deduct	-268.65	
			For >40, Deduct	-443.65	
26 56 13 00-0117	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,885.76	832.49
			For >10 To 20, Deduct	-147.14	
			For >20 To 40, Deduct	-294.29	
			For >40, Deduct	-483.06	
26 56 13 00-0118			Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0092)		
26 56 13 00-0119	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	3,668.20	605.45
			For >10 To 20, Deduct	-91.71	
			For >20 To 40, Deduct	-183.41	
			For >40, Deduct	-305.39	
26 56 13 00-0120	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	3,921.37	643.29
			For >10 To 20, Deduct	-98.03	
			For >20 To 40, Deduct	-196.07	
			For >40, Deduct	-326.27	
26 56 13 00-0121	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,467.80	756.81
			For >10 To 20, Deduct	-111.70	
			For >20 To 40, Deduct	-223.39	
			For >40, Deduct	-372.93	
26 56 13 00-0122	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,660.86	794.65
			For >10 To 20, Deduct	-116.52	
			For >20 To 40, Deduct	-233.04	
			For >40, Deduct	-389.30	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0123	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,881.27	832.49
			For >10 To 20, Deduct	-122.03	
			For >20 To 40, Deduct	-244.06	
			For >40, Deduct	-407.72	
26 56 13 00-0124	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,058.00	870.33
			For >10 To 20, Deduct	-126.45	
			For >20 To 40, Deduct	-252.90	
			For >40, Deduct	-422.87	
26 56 13 00-0125	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,268.16	870.33
			For >10 To 20, Deduct	-131.70	
			For >20 To 40, Deduct	-263.41	
			For >40, Deduct	-438.63	
26 56 13 00-0126	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,716.82	908.17
			For >10 To 20, Deduct	-142.92	
			For >20 To 40, Deduct	-285.84	
			For >40, Deduct	-474.17	
26 56 13 00-0127	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	12,141.25	946.02
			For >10 To 20, Deduct	-303.53	
			For >20 To 40, Deduct	-607.06	
			For >40, Deduct	-957.89	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0092)					
26 56 13 00-0129	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	3,819.01	681.12
			For >10 To 20, Deduct	-95.48	
			For >20 To 40, Deduct	-190.95	
			For >40, Deduct	-320.48	
26 56 13 00-0130	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	3,953.37	681.12
			For >10 To 20, Deduct	-98.83	
			For >20 To 40, Deduct	-197.67	
			For >40, Deduct	-330.56	
26 56 13 00-0131	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,889.62	832.49
			For >10 To 20, Deduct	-122.24	
			For >20 To 40, Deduct	-244.48	
			For >40, Deduct	-408.35	
26 56 13 00-0132	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,289.57	889.25
			For >10 To 20, Deduct	-132.24	
			For >20 To 40, Deduct	-264.48	
			For >40, Deduct	-441.18	
26 56 13 00-0133	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,510.42	908.17
			For >10 To 20, Deduct	-137.76	
			For >20 To 40, Deduct	-275.52	
			For >40, Deduct	-458.69	
26 56 13 00-0134	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,880.63	964.93
			For >10 To 20, Deduct	-147.02	
			For >20 To 40, Deduct	-294.03	
			For >40, Deduct	-489.29	
26 56 13 00-0135	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,799.11	946.02
			For >10 To 20, Deduct	-144.98	
			For >20 To 40, Deduct	-289.96	
			For >40, Deduct	-482.23	
26 56 13 00-0136	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,570.39	1,002.77
			For >10 To 20, Deduct	-164.26	
			For >20 To 40, Deduct	-328.52	
			For >40, Deduct	-542.92	
26 56 13 00-0137	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	7,254.58	1,059.53
			For >10 To 20, Deduct	-181.36	
			For >20 To 40, Deduct	-362.73	
			For >40, Deduct	-597.07	
26 56 13 00-0138 Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms (26 56 13 00-0091)					
26 56 13 00-0139 Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0138)					
26 56 13 00-0140	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,020.44	605.45
			For >10 To 20, Deduct	-100.51	
			For >20 To 40, Deduct	-201.02	
			For >40, Deduct	-331.81	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0141	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,050.36	605.45
		For >10 To 20, Deduct	-101.26	
		For >20 To 40, Deduct	-202.52	
		For >40, Deduct	-334.05	
26 56 13 00-0142	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,126.81	605.45
		For >10 To 20, Deduct	-103.17	
		For >20 To 40, Deduct	-206.34	
		For >40, Deduct	-339.78	
26 56 13 00-0143	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,241.53	605.45
		For >10 To 20, Deduct	-106.04	
		For >20 To 40, Deduct	-212.08	
		For >40, Deduct	-348.39	
26 56 13 00-0144	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,526.51	681.12
		For >10 To 20, Deduct	-113.16	
		For >20 To 40, Deduct	-226.33	
		For >40, Deduct	-373.54	
26 56 13 00-0145	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,593.97	681.12
		For >10 To 20, Deduct	-114.85	
		For >20 To 40, Deduct	-229.70	
		For >40, Deduct	-378.60	
26 56 13 00-0146	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,665.92	681.12
		For >10 To 20, Deduct	-116.65	
		For >20 To 40, Deduct	-233.30	
		For >40, Deduct	-384.00	
26 56 13 00-0147	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,099.93	681.12
		For >10 To 20, Deduct	-127.50	
		For >20 To 40, Deduct	-255.00	
		For >40, Deduct	-416.55	
26 56 13 00-0148	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,910.83	718.97
		For >10 To 20, Deduct	-122.77	
		For >20 To 40, Deduct	-245.54	
		For >40, Deduct	-404.26	
26 56 13 00-0149	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,467.72	718.97
		For >10 To 20, Deduct	-136.69	
		For >20 To 40, Deduct	-273.39	
		For >40, Deduct	-446.03	
26 56 13 00-0150	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,521.96	718.97
		For >10 To 20, Deduct	-138.05	
		For >20 To 40, Deduct	-276.10	
		For >40, Deduct	-450.10	
26 56 13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,866.31	718.97
		For >10 To 20, Deduct	-146.66	
		For >20 To 40, Deduct	-293.32	
		For >40, Deduct	-475.92	
26 56 13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	6,180.36	718.97
		For >10 To 20, Deduct	-154.51	
		For >20 To 40, Deduct	-309.02	
		For >40, Deduct	-499.48	
26 56 13 00-0153		Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0138)		
26 56 13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,207.70	756.81
		For >10 To 20, Deduct	-130.19	
		For >20 To 40, Deduct	-260.39	
		For >40, Deduct	-428.42	
26 56 13 00-0155	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,359.83	794.65
		For >10 To 20, Deduct	-134.00	
		For >20 To 40, Deduct	-267.99	
		For >40, Deduct	-441.72	
26 56 13 00-0156	EA	25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,484.70	832.49
		For >10 To 20, Deduct	-137.12	
		For >20 To 40, Deduct	-274.24	
		For >40, Deduct	-452.98	
26 56 13 00-0157	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,615.75	832.49
		For >10 To 20, Deduct	-140.39	
		For >20 To 40, Deduct	-280.79	
		For >40, Deduct	-462.81	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0158	EA		30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,089.92	870.33
			For >10 To 20, Deduct	-152.25	
			For >20 To 40, Deduct	-304.50	
			For >40, Deduct	-500.26	
26 56 13 00-0159	EA		30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,951.85	908.17
			For >10 To 20, Deduct	-173.80	
			For >20 To 40, Deduct	-347.59	
			For >40, Deduct	-566.80	
26 56 13 00-0160	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,720.52	870.33
			For >10 To 20, Deduct	-168.01	
			For >20 To 40, Deduct	-336.03	
			For >40, Deduct	-547.56	
26 56 13 00-0161	EA		35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,860.26	908.17
			For >10 To 20, Deduct	-171.51	
			For >20 To 40, Deduct	-343.01	
			For >40, Deduct	-559.93	
26 56 13 00-0162	EA		35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	8,280.46	946.02
			For >10 To 20, Deduct	-207.01	
			For >20 To 40, Deduct	-414.02	
			For >40, Deduct	-668.34	
26 56 13 00-0163			Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm (26 56 13 00-0091)		
26 56 13 00-0164			Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0163)		
26 56 13 00-0165	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,280.95	454.09
			For >10 To 20, Deduct	-82.02	
			For >20 To 40, Deduct	-164.05	
			For >40, Deduct	-268.78	
26 56 13 00-0166	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,365.47	454.09
			For >10 To 20, Deduct	-84.14	
			For >20 To 40, Deduct	-168.27	
			For >40, Deduct	-275.11	
26 56 13 00-0167	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,450.18	454.09
			For >10 To 20, Deduct	-86.25	
			For >20 To 40, Deduct	-172.51	
			For >40, Deduct	-281.47	
26 56 13 00-0168	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,929.31	605.45
			For >10 To 20, Deduct	-98.23	
			For >20 To 40, Deduct	-196.47	
			For >40, Deduct	-324.97	
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,993.73	605.45
			For >10 To 20, Deduct	-99.84	
			For >20 To 40, Deduct	-199.69	
			For >40, Deduct	-329.80	
26 56 13 00-0170	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,064.12	605.45
			For >10 To 20, Deduct	-101.60	
			For >20 To 40, Deduct	-203.21	
			For >40, Deduct	-335.08	
26 56 13 00-0171	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,433.82	681.12
			For >10 To 20, Deduct	-110.85	
			For >20 To 40, Deduct	-221.69	
			For >40, Deduct	-366.59	
26 56 13 00-0172	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,521.28	681.12
			For >10 To 20, Deduct	-113.03	
			For >20 To 40, Deduct	-226.06	
			For >40, Deduct	-373.15	
26 56 13 00-0173	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	4,534.41	681.12
			For >10 To 20, Deduct	-113.36	
			For >20 To 40, Deduct	-226.72	
			For >40, Deduct	-374.14	
26 56 13 00-0174	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,820.70	718.97
			For >10 To 20, Deduct	-120.52	
			For >20 To 40, Deduct	-241.04	
			For >40, Deduct	-397.50	
26 56 13 00-0175	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,859.06	718.97
			For >10 To 20, Deduct	-121.48	
			For >20 To 40, Deduct	-242.95	
			For >40, Deduct	-400.38	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
26 56 13 00-0176	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base		4,949.00		718.97
		For >10 To 20, Deduct		-123.73		
		For >20 To 40, Deduct		-247.45		
		For >40, Deduct		-407.12		
26 56 13 00-0177		Area Light Poles (26 56 13 00-0001)				
		Note: Excludes lighting fixtures.				
26 56 13 00-0178		Steel Area Light Poles (26 56 13 00-0177)				
		Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.				
26 56 13 00-0179		Round Straight, Steel Area Light Poles (26 56 13 00-0178)				
26 56 13 00-0180		Round Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0179)				
26 56 13 00-0181	EA	10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		1,401.59		264.88
		For Galvanized Finish, Add		26.15		
		For >10 To 20, Deduct		-48.12		
		For >20 To 40, Deduct		-87.52		
		For >40, Deduct		-183.75		
26 56 13 00-0182	EA	12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		1,525.58		302.72
		For Galvanized Finish, Add		27.60		
		For >10 To 20, Deduct		-51.94		
		For >20 To 40, Deduct		-94.68		
		For >40, Deduct		-198.56		
26 56 13 00-0183	EA	14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		1,705.10		340.57
		For Galvanized Finish, Add		30.72		
		For >10 To 20, Deduct		-57.99		
		For >20 To 40, Deduct		-105.73		
		For >40, Deduct		-221.71		
26 56 13 00-0184	EA	16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		1,889.47		378.40
		For Galvanized Finish, Add		33.98		
		For >10 To 20, Deduct		-64.23		
		For >20 To 40, Deduct		-117.13		
		For >40, Deduct		-245.58		
26 56 13 00-0185	EA	18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		2,013.45		416.24
		For Galvanized Finish, Add		35.43		
		For >10 To 20, Deduct		-68.05		
		For >20 To 40, Deduct		-124.29		
		For >40, Deduct		-260.39		
26 56 13 00-0186	EA	20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		2,125.36		454.09
		For Galvanized Finish, Add		36.52		
		For >10 To 20, Deduct		-71.39		
		For >20 To 40, Deduct		-130.61		
		For >40, Deduct		-273.40		
26 56 13 00-0187	EA	10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		1,464.38		264.88
		For Galvanized Finish, Add		28.04		
		For >10 To 20, Deduct		-50.63		
		For >20 To 40, Deduct		-91.91		
		For >40, Deduct		-193.17		
26 56 13 00-0188	EA	12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		1,590.79		302.72
		For Galvanized Finish, Add		29.56		
		For >10 To 20, Deduct		-54.55		
		For >20 To 40, Deduct		-99.25		
		For >40, Deduct		-208.35		
26 56 13 00-0189	EA	14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		1,835.51		340.57
		For Galvanized Finish, Add		34.63		
		For >10 To 20, Deduct		-63.20		
		For >20 To 40, Deduct		-114.86		
		For >40, Deduct		-241.27		
26 56 13 00-0190	EA	16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		1,974.00		378.40
		For Galvanized Finish, Add		36.52		
		For >10 To 20, Deduct		-67.61		
		For >20 To 40, Deduct		-123.04		
		For >40, Deduct		-258.26		
26 56 13 00-0191	EA	18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		2,105.22		416.24
		For Galvanized Finish, Add		38.18		
		For >10 To 20, Deduct		-71.72		
		For >20 To 40, Deduct		-130.72		
		For >40, Deduct		-274.16		
26 56 13 00-0192	EA	20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		2,212.30		454.09
		For Galvanized Finish, Add		39.12		
		For >10 To 20, Deduct		-74.87		
		For >20 To 40, Deduct		-136.70		
		For >40, Deduct		-286.44		
26 56 13 00-0193	EA	25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		2,604.38		605.45
		For Galvanized Finish, Add		41.80		
		For >10 To 20, Deduct		-86.01		
		For >20 To 40, Deduct		-158.09		
		For >40, Deduct		-330.11		
26 56 13 00-0194	EA	10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base		1,464.38		264.88
		For Galvanized Finish, Add		28.04		
		For >10 To 20, Deduct		-50.63		
		For >20 To 40, Deduct		-91.91		
		For >40, Deduct		-193.17		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0195	EA	12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,598.04	302.72	
		For Galvanized Finish, Add	29.78		
		For >10 To 20, Deduct	-54.84		
		For >20 To 40, Deduct	-99.75		
		For >40, Deduct	-209.43		
26 56 13 00-0196	EA	14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,874.15	340.57	
		For Galvanized Finish, Add	35.79		
		For >10 To 20, Deduct	-64.75		
		For >20 To 40, Deduct	-117.57		
		For >40, Deduct	-247.07		
26 56 13 00-0197	EA	16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,981.24	378.40	
		For Galvanized Finish, Add	36.73		
		For >10 To 20, Deduct	-67.90		
		For >20 To 40, Deduct	-123.55		
		For >40, Deduct	-259.35		
26 56 13 00-0198	EA	18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,105.22	416.24	
		For Galvanized Finish, Add	38.18		
		For >10 To 20, Deduct	-71.72		
		For >20 To 40, Deduct	-130.72		
		For >40, Deduct	-274.16		
26 56 13 00-0199	EA	20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,212.30	454.09	
		For Galvanized Finish, Add	39.12		
		For >10 To 20, Deduct	-74.87		
		For >20 To 40, Deduct	-136.70		
		For >40, Deduct	-286.44		
26 56 13 00-0200	EA	25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,672.01	605.45	
		For Galvanized Finish, Add	43.83		
		For >10 To 20, Deduct	-88.72		
		For >20 To 40, Deduct	-162.82		
		For >40, Deduct	-340.26		
26 56 13 00-0201	EA	30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,948.95	681.12	
		For Galvanized Finish, Add	47.60		
		For >10 To 20, Deduct	-97.52		
		For >20 To 40, Deduct	-179.18		
		For >40, Deduct	-374.23		
26 56 13 00-0202	EA	20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,366.86	454.09	
		For Galvanized Finish, Add	43.76		
		For >10 To 20, Deduct	-81.05		
		For >20 To 40, Deduct	-147.52		
		For >40, Deduct	-309.62		
26 56 13 00-0203	EA	25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,703.40	605.45	
		For Galvanized Finish, Add	44.78		
		For >10 To 20, Deduct	-89.97		
		For >20 To 40, Deduct	-165.02		
		For >40, Deduct	-344.97		
26 56 13 00-0204	EA	30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	3,009.32	681.12	
		For Galvanized Finish, Add	49.41		
		For >10 To 20, Deduct	-99.94		
		For >20 To 40, Deduct	-183.41		
		For >40, Deduct	-383.29		
26 56 13 00-0205		Round Tapered, Steel Area Light Poles (26 56 13 00-0178)			
26 56 13 00-0206		Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)			
26 56 13 00-0207	EA	20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,912.66	454.09	
		For Galvanized Finish, Add	60.13		
		For >10 To 20, Deduct	-102.88		
		For >20 To 40, Deduct	-185.72		
		For >40, Deduct	-391.49		
26 56 13 00-0208	EA	20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,987.53	454.09	
		For Galvanized Finish, Add	62.38		
		For >10 To 20, Deduct	-105.88		
		For >20 To 40, Deduct	-190.96		
		For >40, Deduct	-402.72		
26 56 13 00-0209	EA	25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,454.48	605.45	
		For Galvanized Finish, Add	67.31		
		For >10 To 20, Deduct	-120.02		
		For >20 To 40, Deduct	-217.60		
		For >40, Deduct	-457.63		
26 56 13 00-0210	EA	25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,609.04	605.45	
		For Galvanized Finish, Add	71.94		
		For >10 To 20, Deduct	-126.20		
		For >20 To 40, Deduct	-228.41		
		For >40, Deduct	-480.81		
26 56 13 00-0211	EA	30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,847.35	681.12	
		For Galvanized Finish, Add	74.55		
		For >10 To 20, Deduct	-133.46		
		For >20 To 40, Deduct	-242.07		
		For >40, Deduct	-508.99		
26 56 13 00-0212	EA	30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,105.76	681.12	
		For Galvanized Finish, Add	82.31		
		For >10 To 20, Deduct	-143.80		
		For >20 To 40, Deduct	-260.16		
		For >40, Deduct	-547.75		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0213	EA		35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,234.56	718.97
			For Galvanized Finish, Add	83.90	
			For >10 To 20, Deduct	-147.81	
			For >20 To 40, Deduct	-267.66	
			For >40, Deduct	-563.29	
26 56 13 00-0214	EA		35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,393.95	718.97
			For Galvanized Finish, Add	88.68	
			For >10 To 20, Deduct	-154.19	
			For >20 To 40, Deduct	-278.82	
			For >40, Deduct	-587.20	
26 56 13 00-0215	EA		35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,775.53	718.97
			For Galvanized Finish, Add	100.13	
			For >10 To 20, Deduct	-169.45	
			For >20 To 40, Deduct	-305.53	
			For >40, Deduct	-644.43	
26 56 13 00-0216	EA		39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,822.24	756.81
			For Galvanized Finish, Add	99.26	
			For >10 To 20, Deduct	-170.19	
			For >20 To 40, Deduct	-307.28	
			For >40, Deduct	-647.66	
26 56 13 00-0217	EA		39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,889.86	756.81
			For Galvanized Finish, Add	101.29	
			For >10 To 20, Deduct	-172.89	
			For >20 To 40, Deduct	-312.02	
			For >40, Deduct	-657.80	
26 56 13 00-0218	EA		45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	6,645.66	983.85
			For Galvanized Finish, Add	140.34	
			For >10 To 20, Deduct	-236.31	
			For >20 To 40, Deduct	-425.84	
			For >40, Deduct	-898.46	
26 56 13 00-0219	EA		50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	6,933.89	1,135.21
			For Galvanized Finish, Add	139.90	
			For >10 To 20, Deduct	-243.30	
			For >20 To 40, Deduct	-439.96	
			For >40, Deduct	-926.56	
26 56 13 00-0220	EA		25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,657.18	605.45
			For Galvanized Finish, Add	103.39	
			For >10 To 20, Deduct	-168.12	
			For >20 To 40, Deduct	-301.78	
			For >40, Deduct	-638.03	
26 56 13 00-0221	EA		30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,286.72	681.12
			For Galvanized Finish, Add	117.73	
			For >10 To 20, Deduct	-191.03	
			For >20 To 40, Deduct	-342.83	
			For >40, Deduct	-724.90	
26 56 13 00-0222	EA		39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	6,123.95	756.81
			For Galvanized Finish, Add	138.31	
			For >10 To 20, Deduct	-222.25	
			For >20 To 40, Deduct	-398.40	
			For >40, Deduct	-842.91	
26 56 13 00-0223	EA		45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,399.16	983.85
			For Galvanized Finish, Add	162.94	
			For >10 To 20, Deduct	-266.45	
			For >20 To 40, Deduct	-478.59	
			For >40, Deduct	-1,011.49	
26 56 13 00-0224	EA		50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	8,634.09	1,135.21
			For Galvanized Finish, Add	190.91	
			For >10 To 20, Deduct	-311.31	
			For >20 To 40, Deduct	-558.98	
			For >40, Deduct	-1,181.59	
26 56 13 00-0225	EA		50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	9,617.01	1,135.21
			For Galvanized Finish, Add	220.40	
			For >10 To 20, Deduct	-350.62	
			For >20 To 40, Deduct	-627.78	
			For >40, Deduct	-1,329.03	
26 56 13 00-0226	EA		50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	12,901.48	1,135.21
			For Galvanized Finish, Add	318.93	
			For >10 To 20, Deduct	-482.00	
			For >20 To 40, Deduct	-857.70	
			For >40, Deduct	-1,821.70	
26 56 13 00-0227	EA		50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	14,495.41	1,135.21
			For Galvanized Finish, Add	366.75	
			For >10 To 20, Deduct	-545.76	
			For >20 To 40, Deduct	-969.27	
			For >40, Deduct	-2,060.79	
26 56 13 00-0228			Square Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0229			Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0228)		
26 56 13 00-0230	EA		10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,382.27	264.88
			For Galvanized Finish, Add	25.58	
			For >10 To 20, Deduct	-47.34	
			For >20 To 40, Deduct	-86.16	
			For >40, Deduct	-180.85	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0231	EA	12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,457.96	302.72	
		For Galvanized Finish, Add	25.58		
		For >10 To 20, Deduct	-49.24		
		For >20 To 40, Deduct	-89.95		
		For >40, Deduct	-188.42		
26 56 13 00-0232	EA	14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,574.69	340.57	
		For Galvanized Finish, Add	26.81		
		For >10 To 20, Deduct	-52.77		
		For >20 To 40, Deduct	-96.61		
		For >40, Deduct	-202.15		
26 56 13 00-0233	EA	15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,670.50	359.49	
		For Galvanized Finish, Add	28.55		
		For >10 To 20, Deduct	-56.04		
		For >20 To 40, Deduct	-102.56		
		For >40, Deduct	-214.63		
26 56 13 00-0234	EA	16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,708.34	378.40	
		For Galvanized Finish, Add	28.55		
		For >10 To 20, Deduct	-56.98		
		For >20 To 40, Deduct	-104.45		
		For >40, Deduct	-218.41		
26 56 13 00-0235	EA	18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,810.59	416.24	
		For Galvanized Finish, Add	29.34		
		For >10 To 20, Deduct	-59.94		
		For >20 To 40, Deduct	-110.09		
		For >40, Deduct	-229.96		
26 56 13 00-0236	EA	20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,908.00	454.09	
		For Galvanized Finish, Add	29.99		
		For >10 To 20, Deduct	-62.70		
		For >20 To 40, Deduct	-115.40		
		For >40, Deduct	-240.79		
26 56 13 00-0237	EA	25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,355.63	605.45	
		For Galvanized Finish, Add	34.34		
		For >10 To 20, Deduct	-76.06		
		For >20 To 40, Deduct	-140.68		
		For >40, Deduct	-292.80		
26 56 13 00-0238	EA	20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,234.03	454.09	
		For Galvanized Finish, Add	39.78		
		For >10 To 20, Deduct	-75.74		
		For >20 To 40, Deduct	-138.22		
		For >40, Deduct	-289.70		
26 56 13 00-0239	EA	25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,804.83	605.45	
		For Galvanized Finish, Add	47.82		
		For >10 To 20, Deduct	-94.03		
		For >20 To 40, Deduct	-172.12		
		For >40, Deduct	-360.18		
26 56 13 00-0240	EA	30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,219.43	681.12	
		For Galvanized Finish, Add	55.72		
		For >10 To 20, Deduct	-108.34		
		For >20 To 40, Deduct	-198.11		
		For >40, Deduct	-414.80		
26 56 13 00-0241	EA	20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,144.68	454.09	
		For Galvanized Finish, Add	37.10		
		For >10 To 20, Deduct	-72.16		
		For >20 To 40, Deduct	-131.96		
		For >40, Deduct	-276.29		
26 56 13 00-0242	EA	25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,630.95	605.45	
		For Galvanized Finish, Add	42.60		
		For >10 To 20, Deduct	-87.07		
		For >20 To 40, Deduct	-159.95		
		For >40, Deduct	-334.10		
26 56 13 00-0243	EA	30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,069.70	681.12	
		For Galvanized Finish, Add	51.22		
		For >10 To 20, Deduct	-102.35		
		For >20 To 40, Deduct	-187.63		
		For >40, Deduct	-392.34		
26 56 13 00-0244	EA	20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,451.39	454.09	
		For Galvanized Finish, Add	46.30		
		For >10 To 20, Deduct	-84.43		
		For >20 To 40, Deduct	-153.43		
		For >40, Deduct	-322.30		
26 56 13 00-0245	EA	25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,022.19	605.45	
		For Galvanized Finish, Add	54.34		
		For >10 To 20, Deduct	-102.72		
		For >20 To 40, Deduct	-187.34		
		For >40, Deduct	-392.78		
26 56 13 00-0246	EA	30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,424.71	681.12	
		For Galvanized Finish, Add	61.87		
		For >10 To 20, Deduct	-116.55		
		For >20 To 40, Deduct	-212.48		
		For >40, Deduct	-445.59		
26 56 13 00-0247	EA	35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,799.85	718.97	
		For Galvanized Finish, Add	70.86		
		For >10 To 20, Deduct	-130.43		
		For >20 To 40, Deduct	-237.23		
		For >40, Deduct	-498.08		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0248 EA 30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,900.48 76.15 -135.59 -245.79 -516.96	681.12
26 56 13 00-0249 EA 35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,278.03 85.20 -149.55 -270.70 -569.81	718.97
26 56 13 00-0250 EA 40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,525.19 90.35 -158.30 -286.49 -603.10	756.81
26 56 13 00-0251 Hinged, Square Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0252 Hinged, Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0251)		
26 56 13 00-0253 EA 20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,912.83 120.14 -182.89 -325.73 -691.52	454.09
26 56 13 00-0254 EA 25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,487.84 128.31 -201.35 -359.93 -762.63	605.45
26 56 13 00-0255 EA 30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	7,673.64 189.34 -286.51 -509.91 -1,082.93	681.12
26 56 13 00-0256 EA 20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,010.44 123.07 -186.80 -332.57 -706.16	454.09
26 56 13 00-0257 EA 25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	6,055.53 145.34 -224.06 -399.67 -847.78	605.45
26 56 13 00-0258 EA 30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	8,518.76 214.70 -320.32 -569.07 -1,209.70	681.12
26 56 13 00-0259 EA 35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	9,773.48 250.07 -369.37 -655.39 -1,394.13	718.97
26 56 13 00-0260 EA 39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	11,485.45 299.15 -436.71 -773.71 -1,647.14	756.81
26 56 13 00-0261 EA 20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,758.70 115.52 -176.73 -314.95 -668.40	454.09
26 56 13 00-0262 EA 25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,241.25 120.91 -191.49 -342.67 -725.64	605.45
26 56 13 00-0263 EA 30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	7,239.53 176.32 -269.15 -479.52 -1,017.82	681.12
26 56 13 00-0264 EA 20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,935.95 120.83 -183.82 -327.35 -694.98	454.09
26 56 13 00-0265 EA 25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,824.35 138.40 -214.81 -383.49 -813.11	605.45



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0266	EA	30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base	.....	8,197.66	681.12
		For Galvanized Finish, Add	.....	205.06	
		For >10 To 20, Deduct	.....	-307.47	
		For >20 To 40, Deduct	.....	-546.59	
		For >40, Deduct	.....	-1,161.54	
26 56 13 00-0267	EA	20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	5,208.23	454.09
		For Galvanized Finish, Add	.....	129.00	
		For >10 To 20, Deduct	.....	-194.71	
		For >20 To 40, Deduct	.....	-346.41	
		For >40, Deduct	.....	-735.83	
26 56 13 00-0268	EA	25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	6,314.98	605.45
		For Galvanized Finish, Add	.....	153.12	
		For >10 To 20, Deduct	.....	-234.44	
		For >20 To 40, Deduct	.....	-417.83	
		For >40, Deduct	.....	-886.70	
26 56 13 00-0269	EA	30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	8,775.63	681.12
		For Galvanized Finish, Add	.....	222.40	
		For >10 To 20, Deduct	.....	-330.59	
		For >20 To 40, Deduct	.....	-587.05	
		For >40, Deduct	.....	-1,248.23	
26 56 13 00-0270	EA	35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	10,086.86	718.97
		For Galvanized Finish, Add	.....	259.47	
		For >10 To 20, Deduct	.....	-381.91	
		For >20 To 40, Deduct	.....	-677.32	
		For >40, Deduct	.....	-1,441.13	
26 56 13 00-0271	EA	39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	11,652.42	756.81
		For Galvanized Finish, Add	.....	304.16	
		For >10 To 20, Deduct	.....	-443.39	
		For >20 To 40, Deduct	.....	-785.40	
		For >40, Deduct	.....	-1,672.18	
26 56 13 00-0272 Square Tapered, Steel Area Light Poles (26 56 13 00-0178)					
26 56 13 00-0273 Square Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0272)					
26 56 13 00-0274	EA	20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	3,726.53	454.09
		For Galvanized Finish, Add	.....	84.55	
		For >10 To 20, Deduct	.....	-135.44	
		For >20 To 40, Deduct	.....	-242.69	
		For >40, Deduct	.....	-513.57	
26 56 13 00-0275	EA	25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	4,526.76	605.45
		For Galvanized Finish, Add	.....	99.48	
		For >10 To 20, Deduct	.....	-162.91	
		For >20 To 40, Deduct	.....	-292.66	
		For >40, Deduct	.....	-618.47	
26 56 13 00-0276	EA	30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,037.97	681.12
		For Galvanized Finish, Add	.....	110.27	
		For >10 To 20, Deduct	.....	-181.08	
		For >20 To 40, Deduct	.....	-325.41	
		For >40, Deduct	.....	-687.58	
26 56 13 00-0277	EA	35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,589.40	718.97
		For Galvanized Finish, Add	.....	124.54	
		For >10 To 20, Deduct	.....	-202.01	
		For >20 To 40, Deduct	.....	-362.50	
		For >40, Deduct	.....	-766.51	
26 56 13 00-0278	EA	39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,892.11	756.81
		For Galvanized Finish, Add	.....	131.35	
		For >10 To 20, Deduct	.....	-212.98	
		For >20 To 40, Deduct	.....	-382.18	
		For >40, Deduct	.....	-808.14	
26 56 13 00-0279	EA	20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	4,810.89	454.09
		For Galvanized Finish, Add	.....	117.08	
		For >10 To 20, Deduct	.....	-178.81	
		For >20 To 40, Deduct	.....	-318.60	
		For >40, Deduct	.....	-676.23	
26 56 13 00-0280	EA	25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,376.86	605.45
		For Galvanized Finish, Add	.....	124.98	
		For >10 To 20, Deduct	.....	-196.91	
		For >20 To 40, Deduct	.....	-352.16	
		For >40, Deduct	.....	-745.98	
26 56 13 00-0281	EA	30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,733.50	681.12
		For Galvanized Finish, Add	.....	131.14	
		For >10 To 20, Deduct	.....	-208.91	
		For >20 To 40, Deduct	.....	-374.10	
		For >40, Deduct	.....	-791.91	
26 56 13 00-0282	EA	30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	6,371.07	681.12
		For Galvanized Finish, Add	.....	150.26	
		For >10 To 20, Deduct	.....	-234.41	
		For >20 To 40, Deduct	.....	-418.73	
		For >40, Deduct	.....	-887.55	
26 56 13 00-0283	EA	35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	6,905.60	718.97
		For Galvanized Finish, Add	.....	164.03	
		For >10 To 20, Deduct	.....	-254.66	
		For >20 To 40, Deduct	.....	-454.63	
		For >40, Deduct	.....	-963.94	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0284 EA 35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	7,695.32	718.97
For Galvanized Finish, Add	187.72	
For >10 To 20, Deduct	-286.24	
For >20 To 40, Deduct	-509.91	
For >40, Deduct	-1,082.40	
26 56 13 00-0285 EA 39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	7,017.52	756.81
For Galvanized Finish, Add	165.12	
For >10 To 20, Deduct	-258.00	
For >20 To 40, Deduct	-460.95	
For >40, Deduct	-976.95	
26 56 13 00-0286 EA 39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	8,961.63	756.81
For Galvanized Finish, Add	223.44	
For >10 To 20, Deduct	-335.76	
For >20 To 40, Deduct	-597.04	
For >40, Deduct	-1,268.56	
26 56 13 00-0287 EA 45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	8,290.31	983.85
For Galvanized Finish, Add	189.68	
For >10 To 20, Deduct	-302.10	
For >20 To 40, Deduct	-540.97	
For >40, Deduct	-1,145.16	
26 56 13 00-0288 EA 45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	9,616.17	983.85
For Galvanized Finish, Add	229.45	
For >10 To 20, Deduct	-355.13	
For >20 To 40, Deduct	-633.78	
For >40, Deduct	-1,344.04	
26 56 13 00-0289 EA 50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	9,986.51	1,135.21
For Galvanized Finish, Add	231.48	
For >10 To 20, Deduct	-365.40	
For >20 To 40, Deduct	-653.65	
For >40, Deduct	-1,384.46	
26 56 13 00-0290 Factory Accessories For Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0291 EA 1/2", 3/4" Or 1" Diameter, Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles	85.62	
26 56 13 00-0292 EA Extra Handhole For Steel Area Light Poles	127.34	
26 56 13 00-0293 EA Vibration Dampener For Steel Area Light Poles	129.53	
26 56 13 00-0294 Aluminum Area Light Poles (26 56 13 00-0177)		
Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0295 Round Straight, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0296 Round Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0295)		
26 56 13 00-0297 EA 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	864.21	227.04
For Bronze Or Satin Anodized Finish, Add	41.01	
For Black Anodized Finish, Add	82.02	
For >10 To 20, Deduct	-27.76	
For >20 To 40, Deduct	-51.41	
For >40, Deduct	-106.93	
26 56 13 00-0298 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	960.92	264.88
For Bronze Or Satin Anodized Finish, Add	43.12	
For Black Anodized Finish, Add	86.23	
For >10 To 20, Deduct	-30.49	
For >20 To 40, Deduct	-56.67	
For >40, Deduct	-117.65	
26 56 13 00-0299 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,062.90	302.72
For Bronze Or Satin Anodized Finish, Add	45.75	
For Black Anodized Finish, Add	91.49	
For >10 To 20, Deduct	-33.43	
For >20 To 40, Deduct	-62.29	
For >40, Deduct	-129.16	
26 56 13 00-0300 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,165.91	340.57
For Bronze Or Satin Anodized Finish, Add	48.48	
For Black Anodized Finish, Add	96.96	
For >10 To 20, Deduct	-36.42	
For >20 To 40, Deduct	-67.99	
For >40, Deduct	-140.83	
26 56 13 00-0301 EA 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,221.63	359.49
For Bronze Or Satin Anodized Finish, Add	50.27	
For Black Anodized Finish, Add	100.53	
For >10 To 20, Deduct	-38.08	
For >20 To 40, Deduct	-71.13	
For >40, Deduct	-147.30	
26 56 13 00-0302 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,276.30	378.40
For Bronze Or Satin Anodized Finish, Add	51.95	
For Black Anodized Finish, Add	103.90	
For >10 To 20, Deduct	-39.70	
For >20 To 40, Deduct	-74.20	
For >40, Deduct	-153.60	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0303	EA	16'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,339.40 58.26 116.52 -42.22 -78.62 -163.07	378.40
26 56 13 00-0304	EA	18'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,455.04 62.26 124.51 -45.71 -85.20 -176.63	416.24
26 56 13 00-0305	EA	20'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,564.37 65.62 131.24 -48.95 -91.34 -189.25	454.09
26 56 13 00-0306	EA	15'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,454.04 73.51 147.01 -47.38 -87.40 -182.16	359.49
26 56 13 00-0307	EA	20'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,796.77 88.86 177.72 -58.25 -107.61 -224.11	454.09
26 56 13 00-0308	EA	20'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,914.55 100.64 201.28 -62.96 -115.86 -241.77	454.09
26 56 13 00-0309	EA	25'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,327.70 111.68 223.36 -74.94 -138.72 -288.61	605.45
26 56 13 00-0310	EA	30'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,688.33 132.61 265.21 -87.10 -160.94 -335.14	681.12
26 56 13 00-0311	EA	20'	High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,636.93 72.88 145.75 -51.85 -96.42 -200.13	454.09
26 56 13 00-0312	EA	20'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,905.09 99.69 199.38 -62.58 -115.19 -240.36	454.09
26 56 13 00-0313	EA	25'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,310.87 110.00 219.99 -74.27 -137.54 -286.09	605.45
26 56 13 00-0314	EA	25'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,463.36 125.25 250.49 -80.37 -148.22 -308.96	605.45
26 56 13 00-0315	EA	30'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,860.79 149.85 299.71 -94.00 -173.01 -361.01	681.12
26 56 13 00-0316	Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0295)				
26 56 13 00-0317	EA	8'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	971.48 77.61 -32.05 -58.92 -123.02	227.04

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0318 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,089.21 83.92 -35.62 -65.65 -136.89	264.88
26 56 13 00-0319 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,202.76 89.60 -39.03 -72.08 -150.14	302.72
26 56 13 00-0320 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,296.31 92.28 -41.64 -77.12 -160.39	340.57
26 56 13 00-0321 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,402.49 96.85 -44.75 -83.04 -172.53	378.40
26 56 13 00-0322 EA 10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,111.29 87.23 -36.51 -67.20 -140.21	264.88
26 56 13 00-0323 EA 12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,222.74 92.59 -39.83 -73.48 -153.14	302.72
26 56 13 00-0324 EA 14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,337.32 98.43 -43.28 -79.99 -166.54	340.57
26 56 13 00-0325 EA 16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,450.87 104.11 -46.68 -86.42 -179.79	378.40
26 56 13 00-0326 EA 18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,569.66 110.58 -50.30 -93.23 -193.82	416.24
26 56 13 00-0327 EA 20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,682.15 116.10 -53.66 -99.59 -206.91	454.09
26 56 13 00-0328 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,263.75 98.75 -41.47 -76.35 -159.29	302.72
26 56 13 00-0329 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,385.69 105.69 -45.21 -83.38 -173.80	340.57
26 56 13 00-0330 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,506.60 112.47 -48.91 -90.33 -188.15	378.40
26 56 13 00-0331 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,629.60 119.57 -52.70 -97.42 -202.82	416.24
26 56 13 00-0332 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,565.49 121.30 -51.27 -94.45 -196.98	378.40
26 56 13 00-0333 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,819.91 136.76 -59.17 -109.23 -227.58	454.09
26 56 13 00-0334 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,302.66 104.58 -43.02 -79.08 -165.13	302.72



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0335	EA	14'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,436.17 113.26 -47.23 -86.91 -181.37	340.57
26 56 13 00-0336	EA	16'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,559.18 120.36 -51.02 -94.01 -196.04	378.40
26 56 13 00-0337	EA	18'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,688.49 128.40 -55.05 -101.54 -211.65	416.24
26 56 13 00-0338	EA	20'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,814.65 135.97 -58.96 -108.86 -226.79	454.09
26 56 13 00-0339	EA	16'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,635.95 131.87 -54.09 -99.38 -207.55	378.40
26 56 13 00-0340	EA	18'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,774.72 141.33 -58.50 -107.58 -224.58	416.24
26 56 13 00-0341	EA	20'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,847.25 140.86 -60.27 -111.14 -231.68	454.09
26 56 13 00-0342	Round Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0295) Note: Includes rubberized undercoating on embedded portion.				
26 56 13 00-0343	EA	10'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	765.39 38.70 77.40 -24.94 -46.01 -95.89	189.21
26 56 13 00-0344	EA	12'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	823.21 40.70 81.39 -26.68 -49.30 -102.67	208.13
26 56 13 00-0345	EA	14'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	908.38 45.43 90.86 -29.52 -54.50 -113.55	227.04
26 56 13 00-0346	EA	15'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	932.57 47.85 95.70 -30.49 -56.20 -117.18	227.04
26 56 13 00-0347	EA	16'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	963.06 50.90 101.79 -31.71 -58.33 -121.75	227.04
26 56 13 00-0348	EA	18'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,093.45 60.15 120.30 -36.36 -66.70 -139.42	245.96
26 56 13 00-0349	EA	20'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,170.18 64.04 128.08 -38.86 -71.32 -149.04	264.88

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0350	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,333.18	264.88
		For Bronze Or Satin Anodized Finish, Add	80.34	
		For Black Anodized Finish, Add	160.68	
		For >10 To 20, Deduct	-45.38	
		For >20 To 40, Deduct	-82.73	
		For >40, Deduct	-173.49	
26 56 13 00-0351	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,618.14	302.72
		For Bronze Or Satin Anodized Finish, Add	101.27	
		For Black Anodized Finish, Add	202.54	
		For >10 To 20, Deduct	-55.64	
		For >20 To 40, Deduct	-101.16	
		For >40, Deduct	-212.45	
26 56 13 00-0352	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,834.73	340.57
		For Bronze Or Satin Anodized Finish, Add	115.36	
		For Black Anodized Finish, Add	230.72	
		For >10 To 20, Deduct	-63.17	
		For >20 To 40, Deduct	-114.81	
		For >40, Deduct	-241.15	
26 56 13 00-0353	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	2,027.17	340.57
		For Bronze Or Satin Anodized Finish, Add	134.61	
		For Black Anodized Finish, Add	269.21	
		For >10 To 20, Deduct	-70.87	
		For >20 To 40, Deduct	-128.28	
		For >40, Deduct	-270.02	
26 56 13 00-0354 Round Tapered, Aluminum Area Light Poles (26 56 13 00-0294)				
26 56 13 00-0355 Round Tapered, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0354)				
26 56 13 00-0356	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	751.69	227.04
		For Bronze Or Satin Anodized Finish, Add	29.76	
		For Black Anodized Finish, Add	59.52	
		For >10 To 20, Deduct	-23.26	
		For >20 To 40, Deduct	-43.54	
		For >40, Deduct	-90.05	
26 56 13 00-0357	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	851.55	264.88
		For Bronze Or Satin Anodized Finish, Add	32.18	
		For Black Anodized Finish, Add	64.36	
		For >10 To 20, Deduct	-26.12	
		For >20 To 40, Deduct	-49.01	
		For >40, Deduct	-101.24	
26 56 13 00-0358	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	951.43	302.72
		For Bronze Or Satin Anodized Finish, Add	34.60	
		For Black Anodized Finish, Add	69.20	
		For >10 To 20, Deduct	-28.98	
		For >20 To 40, Deduct	-54.49	
		For >40, Deduct	-112.44	
26 56 13 00-0359	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,060.75	340.57
		For Bronze Or Satin Anodized Finish, Add	37.96	
		For Black Anodized Finish, Add	75.93	
		For >10 To 20, Deduct	-32.21	
		For >20 To 40, Deduct	-60.63	
		For >40, Deduct	-125.06	
26 56 13 00-0360	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,169.04	378.40
		For Bronze Or Satin Anodized Finish, Add	41.22	
		For Black Anodized Finish, Add	82.45	
		For >10 To 20, Deduct	-35.41	
		For >20 To 40, Deduct	-66.70	
		For >40, Deduct	-137.52	
26 56 13 00-0361	EA	10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	878.89	264.88
		For Bronze Or Satin Anodized Finish, Add	34.91	
		For Black Anodized Finish, Add	69.83	
		For >10 To 20, Deduct	-27.21	
		For >20 To 40, Deduct	-50.93	
		For >40, Deduct	-105.35	
26 56 13 00-0362	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	994.54	302.72
		For Bronze Or Satin Anodized Finish, Add	38.91	
		For Black Anodized Finish, Add	77.82	
		For >10 To 20, Deduct	-30.70	
		For >20 To 40, Deduct	-57.51	
		For >40, Deduct	-118.91	
26 56 13 00-0363	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,107.02	340.57
		For Bronze Or Satin Anodized Finish, Add	42.59	
		For Black Anodized Finish, Add	85.18	
		For >10 To 20, Deduct	-34.06	
		For >20 To 40, Deduct	-63.87	
		For >40, Deduct	-132.00	
26 56 13 00-0364	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,324.64	416.24
		For Bronze Or Satin Anodized Finish, Add	49.22	
		For Black Anodized Finish, Add	98.43	
		For >10 To 20, Deduct	-40.50	
		For >20 To 40, Deduct	-76.08	
		For >40, Deduct	-157.07	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0365	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,426.61 51.84 103.69 -43.44 -81.70 -168.58	454.09
26 56	13 00-0366	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,033.45 42.80 85.60 -32.26 -60.23 -124.75	302.72
26 56	13 00-0367	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,152.24 47.11 94.22 -35.87 -67.03 -138.78	340.57
26 56	13 00-0368	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,278.40 52.16 104.32 -39.78 -74.35 -153.92	378.40
26 56	13 00-0369	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,385.63 55.31 110.63 -42.94 -80.34 -166.22	416.24
26 56	13 00-0370	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,507.58 59.94 119.88 -46.68 -87.37 -180.73	454.09
26 56	13 00-0371	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,381.46 62.47 124.93 -43.91 -81.57 -169.38	378.40
26 56	13 00-0372	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,517.08 68.46 136.92 -48.20 -89.55 -185.94	416.24
26 56	13 00-0373	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,609.59 70.14 140.28 -50.76 -94.51 -196.03	454.09
26 56	13 00-0374	EA	23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,854.54 79.50 159.00 -58.29 -108.63 -225.20	529.76
26 56	13 00-0375	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,105.81 89.49 178.98 -66.07 -123.19 -255.33	605.45
26 56	13 00-0376	EA	18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,620.14 78.77 157.53 -52.32 -96.76 -201.40	416.24
26 56	13 00-0377	EA	20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,734.73 82.66 165.31 -55.77 -103.27 -214.80	454.09
26 56	13 00-0378	EA	23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,953.39 89.39 178.77 -62.24 -115.55 -240.03	529.76

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0379	EA	25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,181.53	605.45
		For Bronze Or Satin Anodized Finish, Add	.....	97.06	
		For Black Anodized Finish, Add	.....	194.13	
		For >10 To 20, Deduct	.....	-69.10	
		For >20 To 40, Deduct	.....	-128.49	
		For >40, Deduct	.....	-266.68	
26 56 13 00-0380	EA	28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,342.38	643.29
		For Bronze Or Satin Anodized Finish, Add	.....	105.58	
		For Black Anodized Finish, Add	.....	211.16	
		For >10 To 20, Deduct	.....	-74.40	
		For >20 To 40, Deduct	.....	-138.24	
		For >40, Deduct	.....	-287.03	
26 56 13 00-0381	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,505.35	681.12
		For Bronze Or Satin Anodized Finish, Add	.....	114.31	
		For Black Anodized Finish, Add	.....	228.62	
		For >10 To 20, Deduct	.....	-79.78	
		For >20 To 40, Deduct	.....	-148.13	
		For >40, Deduct	.....	-307.69	
26 56 13 00-0382	EA	23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,051.19	529.76
		For Bronze Or Satin Anodized Finish, Add	.....	99.17	
		For Black Anodized Finish, Add	.....	198.33	
		For >10 To 20, Deduct	.....	-66.15	
		For >20 To 40, Deduct	.....	-122.39	
		For >40, Deduct	.....	-254.70	
26 56 13 00-0383	EA	25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,246.73	605.45
		For Bronze Or Satin Anodized Finish, Add	.....	103.58	
		For Black Anodized Finish, Add	.....	207.17	
		For >10 To 20, Deduct	.....	-71.71	
		For >20 To 40, Deduct	.....	-133.05	
		For >40, Deduct	.....	-276.46	
26 56 13 00-0384	EA	28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,412.83	643.29
		For Bronze Or Satin Anodized Finish, Add	.....	112.63	
		For Black Anodized Finish, Add	.....	225.25	
		For >10 To 20, Deduct	.....	-77.21	
		For >20 To 40, Deduct	.....	-143.17	
		For >40, Deduct	.....	-297.60	
26 56 13 00-0385	EA	30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,614.72	681.12
		For Bronze Or Satin Anodized Finish, Add	.....	125.25	
		For Black Anodized Finish, Add	.....	250.49	
		For >10 To 20, Deduct	.....	-84.15	
		For >20 To 40, Deduct	.....	-155.79	
		For >40, Deduct	.....	-324.10	
26 56 13 00-0386	EA	33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,699.87	700.05
		For Bronze Or Satin Anodized Finish, Add	.....	129.98	
		For Black Anodized Finish, Add	.....	259.96	
		For >10 To 20, Deduct	.....	-86.99	
		For >20 To 40, Deduct	.....	-160.99	
		For >40, Deduct	.....	-334.98	
26 56 13 00-0387	EA	35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	2,864.95	718.97
		For Bronze Or Satin Anodized Finish, Add	.....	142.70	
		For Black Anodized Finish, Add	.....	285.40	
		For >10 To 20, Deduct	.....	-93.03	
		For >20 To 40, Deduct	.....	-171.79	
		For >40, Deduct	.....	-357.85	
26 56 13 00-0388	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,076.57	302.72
		For Bronze Or Satin Anodized Finish, Add	.....	47.11	
		For Black Anodized Finish, Add	.....	94.22	
		For >10 To 20, Deduct	.....	-33.98	
		For >20 To 40, Deduct	.....	-63.25	
		For >40, Deduct	.....	-131.21	
26 56 13 00-0389	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,202.71	340.57
		For Bronze Or Satin Anodized Finish, Add	.....	52.16	
		For Black Anodized Finish, Add	.....	104.32	
		For >10 To 20, Deduct	.....	-37.89	
		For >20 To 40, Deduct	.....	-70.57	
		For >40, Deduct	.....	-146.35	
26 56 13 00-0390	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,333.09	378.40
		For Bronze Or Satin Anodized Finish, Add	.....	57.63	
		For Black Anodized Finish, Add	.....	115.26	
		For >10 To 20, Deduct	.....	-41.97	
		For >20 To 40, Deduct	.....	-78.18	
		For >40, Deduct	.....	-162.12	
26 56 13 00-0391	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,451.88	416.24
		For Bronze Or Satin Anodized Finish, Add	.....	61.94	
		For Black Anodized Finish, Add	.....	123.88	
		For >10 To 20, Deduct	.....	-45.59	
		For >20 To 40, Deduct	.....	-84.98	
		For >40, Deduct	.....	-176.16	
26 56 13 00-0392	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	.....	1,569.63	454.09
		For Bronze Or Satin Anodized Finish, Add	.....	66.15	
		For Black Anodized Finish, Add	.....	132.29	
		For >10 To 20, Deduct	.....	-49.16	
		For >20 To 40, Deduct	.....	-91.71	
		For >40, Deduct	.....	-190.04	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0393	EA	16'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,447.71 69.09 138.18 -46.56 -86.20 -179.32	378.40
26 56 13 00-0394	EA	18'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,586.49 75.40 150.80 -50.97 -94.40 -196.35	416.24
26 56 13 00-0395	EA	20'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,692.66 78.45 156.90 -54.08 -100.32 -208.49	454.09
26 56 13 00-0396	EA	23'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,932.36 87.28 174.57 -61.40 -114.07 -236.88	529.76
26 56 13 00-0397	EA	25'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,178.37 96.75 193.49 -68.97 -128.27 -266.21	605.45
26 56 13 00-0398	EA	23'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,170.02 111.05 222.10 -70.91 -130.71 -272.53	529.76
26 56 13 00-0399	EA	25'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,404.47 119.36 238.71 -78.02 -144.09 -300.13	605.45
26 56 13 00-0400	EA	28'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,583.19 129.66 259.32 -84.03 -155.09 -323.15	643.29
26 56 13 00-0401	EA	30'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,744.06 138.18 276.36 -89.33 -164.84 -343.50	681.12
26 56 13 00-0402	EA	33'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,883.90 148.38 296.76 -94.35 -173.87 -362.58	700.05
26 56 13 00-0403	EA	35'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,006.92 156.90 313.80 -98.71 -181.73 -379.14	718.97
26 56 13 00-0404	EA	37'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,113.12 163.73 327.47 -102.39 -188.40 -393.18	737.89
26 56 13 00-0405	EA	39'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,298.19 178.46 356.91 -109.22 -200.60 -419.05	756.81
26 56 13 00-0406	EA	28'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,037.48 175.09 350.18 -102.20 -186.89 -391.29	643.29

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0407	EA	30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,269.86	681.12
		For Bronze Or Satin Anodized Finish, Add	190.76	
		For Black Anodized Finish, Add	381.52	
		For >10 To 20, Deduct	-110.36	
		For >20 To 40, Deduct	-201.65	
		For >40, Deduct	-422.37	
26 56 13 00-0408	EA	33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,430.73	700.05
		For Bronze Or Satin Anodized Finish, Add	203.06	
		For Black Anodized Finish, Add	406.13	
		For >10 To 20, Deduct	-116.23	
		For >20 To 40, Deduct	-212.15	
		For >40, Deduct	-444.61	
26 56 13 00-0409	EA	35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,554.80	718.97
		For Bronze Or Satin Anodized Finish, Add	211.69	
		For Black Anodized Finish, Add	423.37	
		For >10 To 20, Deduct	-120.62	
		For >20 To 40, Deduct	-220.08	
		For >40, Deduct	-461.32	
26 56 13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,627.35	737.89
		For Bronze Or Satin Anodized Finish, Add	215.16	
		For Black Anodized Finish, Add	430.31	
		For >10 To 20, Deduct	-122.96	
		For >20 To 40, Deduct	-224.40	
		For >40, Deduct	-470.31	
26 56 13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,830.29	756.81
		For Bronze Or Satin Anodized Finish, Add	231.67	
		For Black Anodized Finish, Add	463.33	
		For >10 To 20, Deduct	-130.51	
		For >20 To 40, Deduct	-237.85	
		For >40, Deduct	-498.86	
26 56 13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,893.41	643.29
		For Bronze Or Satin Anodized Finish, Add	160.68	
		For Black Anodized Finish, Add	321.37	
		For >10 To 20, Deduct	-96.44	
		For >20 To 40, Deduct	-176.81	
		For >40, Deduct	-369.68	
26 56 13 00-0413	EA	30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,106.86	681.12
		For Bronze Or Satin Anodized Finish, Add	174.46	
		For Black Anodized Finish, Add	348.92	
		For >10 To 20, Deduct	-103.84	
		For >20 To 40, Deduct	-190.24	
		For >40, Deduct	-397.92	
26 56 13 00-0414	EA	33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,192.02	700.05
		For Bronze Or Satin Anodized Finish, Add	179.19	
		For Black Anodized Finish, Add	358.39	
		For >10 To 20, Deduct	-106.68	
		For >20 To 40, Deduct	-195.44	
		For >40, Deduct	-408.80	
26 56 13 00-0415	EA	35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,398.11	718.97
		For Bronze Or Satin Anodized Finish, Add	196.02	
		For Black Anodized Finish, Add	392.04	
		For >10 To 20, Deduct	-114.36	
		For >20 To 40, Deduct	-209.11	
		For >40, Deduct	-437.82	
26 56 13 00-0416	EA	37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,503.26	737.89
		For Bronze Or Satin Anodized Finish, Add	202.75	
		For Black Anodized Finish, Add	405.50	
		For >10 To 20, Deduct	-117.99	
		For >20 To 40, Deduct	-215.71	
		For >40, Deduct	-451.70	
26 56 13 00-0417	EA	39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,707.26	756.81
		For Bronze Or Satin Anodized Finish, Add	219.36	
		For Black Anodized Finish, Add	438.73	
		For >10 To 20, Deduct	-125.59	
		For >20 To 40, Deduct	-229.24	
		For >40, Deduct	-480.41	
26 56 13 00-0418	EA	28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,551.72	643.29
		For Bronze Or Satin Anodized Finish, Add	226.52	
		For Black Anodized Finish, Add	453.03	
		For >10 To 20, Deduct	-122.77	
		For >20 To 40, Deduct	-222.89	
		For >40, Deduct	-468.43	
26 56 13 00-0419	EA	30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,755.70	681.12
		For Bronze Or Satin Anodized Finish, Add	239.34	
		For Black Anodized Finish, Add	478.69	
		For >10 To 20, Deduct	-129.79	
		For >20 To 40, Deduct	-235.65	
		For >40, Deduct	-495.24	
26 56 13 00-0420	EA	33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,918.67	700.05
		For Bronze Or Satin Anodized Finish, Add	251.86	
		For Black Anodized Finish, Add	503.72	
		For >10 To 20, Deduct	-135.75	
		For >20 To 40, Deduct	-246.31	
		For >40, Deduct	-517.80	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0421	EA	35'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,166.83 272.89 545.78 -145.10 -262.92 -553.13	718.97
26 56 13 00-0422	EA	37'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,227.82 275.20 550.41 -146.98 -266.43 -560.38	737.89
26 56 13 00-0423	EA	39'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,474.93 296.13 592.26 -156.29 -282.97 -595.56	756.81
26 56 13 00-0424	EA	48'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,718.63 344.82 689.64 -194.69 -354.90 -744.27	1,135.21
26 56 13 00-0425	EA	50'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,849.02 357.86 715.72 -199.90 -364.02 -763.83	1,135.21
26 56 13 00-0426 Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0354)					
26 56 13 00-0427	EA	8'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	977.79 78.56 -32.30 -59.36 -123.96	227.04
26 56 13 00-0428	EA	10'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,075.54 81.87 -35.08 -64.69 -134.84	264.88
26 56 13 00-0429	EA	12'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,174.37 85.34 -37.89 -70.10 -145.88	302.72
26 56 13 00-0430	EA	14'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,275.27 89.12 -40.79 -75.65 -157.23	340.57
26 56 13 00-0431	EA	16'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,375.15 92.75 -43.65 -81.12 -168.43	378.40
26 56 13 00-0432	EA	10'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,088.16 83.76 -35.58 -65.58 -136.74	264.88
26 56 13 00-0433	EA	12'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,189.09 87.55 -38.48 -71.13 -148.09	302.72
26 56 13 00-0434	EA	14'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,292.10 91.65 -41.47 -76.82 -159.76	340.57
26 56 13 00-0435	EA	16'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,394.08 95.59 -44.41 -82.45 -171.27	378.40
26 56 13 00-0436	EA	18'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,509.72 101.58 -47.90 -89.03 -184.83	416.24

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0437	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,615.90	454.09
		For Bronze, Satin Or Black Anodized Finish, Add	106.16	
		For >10 To 20, Deduct	-51.01	
		For >20 To 40, Deduct	-94.95	
		For >40, Deduct	-196.98	
26 56 13 00-0438	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,230.10	302.72
		For Bronze, Satin Or Black Anodized Finish, Add	93.70	
		For >10 To 20, Deduct	-40.12	
		For >20 To 40, Deduct	-74.00	
		For >40, Deduct	-154.24	
26 56 13 00-0439	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,338.37	340.57
		For Bronze, Satin Or Black Anodized Finish, Add	98.59	
		For >10 To 20, Deduct	-43.32	
		For >20 To 40, Deduct	-80.06	
		For >40, Deduct	-166.70	
26 56 13 00-0440	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,459.28	378.40
		For Bronze, Satin Or Black Anodized Finish, Add	105.37	
		For >10 To 20, Deduct	-47.02	
		For >20 To 40, Deduct	-87.01	
		For >40, Deduct	-181.05	
26 56 13 00-0441	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,569.66	416.24
		For Bronze, Satin Or Black Anodized Finish, Add	110.58	
		For >10 To 20, Deduct	-50.30	
		For >20 To 40, Deduct	-93.23	
		For >40, Deduct	-193.82	
26 56 13 00-0442	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,693.72	454.09
		For Bronze, Satin Or Black Anodized Finish, Add	117.83	
		For >10 To 20, Deduct	-54.13	
		For >20 To 40, Deduct	-100.40	
		For >40, Deduct	-208.65	
26 56 13 00-0443	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,519.22	378.40
		For Bronze, Satin Or Black Anodized Finish, Add	114.36	
		For >10 To 20, Deduct	-49.42	
		For >20 To 40, Deduct	-91.21	
		For >40, Deduct	-190.04	
26 56 13 00-0444	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,650.63	416.24
		For Bronze, Satin Or Black Anodized Finish, Add	122.72	
		For >10 To 20, Deduct	-53.54	
		For >20 To 40, Deduct	-98.89	
		For >40, Deduct	-205.97	
26 56 13 00-0445	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,758.91	454.09
		For Bronze, Satin Or Black Anodized Finish, Add	127.61	
		For >10 To 20, Deduct	-56.73	
		For >20 To 40, Deduct	-104.96	
		For >40, Deduct	-218.43	
26 56 13 00-0446	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,262.70	302.72
		For Bronze, Satin Or Black Anodized Finish, Add	98.59	
		For >10 To 20, Deduct	-41.43	
		For >20 To 40, Deduct	-76.28	
		For >40, Deduct	-159.13	
26 56 13 00-0447	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,387.80	340.57
		For Bronze, Satin Or Black Anodized Finish, Add	106.00	
		For >10 To 20, Deduct	-45.30	
		For >20 To 40, Deduct	-83.52	
		For >40, Deduct	-174.11	
26 56 13 00-0448	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,519.22	378.40
		For Bronze, Satin Or Black Anodized Finish, Add	114.36	
		For >10 To 20, Deduct	-49.42	
		For >20 To 40, Deduct	-91.21	
		For >40, Deduct	-190.04	
26 56 13 00-0449	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,638.02	416.24
		For Bronze, Satin Or Black Anodized Finish, Add	120.83	
		For >10 To 20, Deduct	-53.03	
		For >20 To 40, Deduct	-98.01	
		For >40, Deduct	-204.08	
26 56 13 00-0450	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,764.17	454.09
		For Bronze, Satin Or Black Anodized Finish, Add	128.40	
		For >10 To 20, Deduct	-56.94	
		For >20 To 40, Deduct	-105.33	
		For >40, Deduct	-219.22	
26 56 13 00-0451	EA	16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,587.57	378.40
		For Bronze, Satin Or Black Anodized Finish, Add	124.61	
		For >10 To 20, Deduct	-52.15	
		For >20 To 40, Deduct	-95.99	
		For >40, Deduct	-200.30	
26 56 13 00-0452	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,727.40	416.24
		For Bronze, Satin Or Black Anodized Finish, Add	134.24	
		For >10 To 20, Deduct	-56.61	
		For >20 To 40, Deduct	-104.27	
		For >40, Deduct	-217.49	
26 56 13 00-0453	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,840.94	454.09
		For Bronze, Satin Or Black Anodized Finish, Add	139.92	
		For >10 To 20, Deduct	-60.02	
		For >20 To 40, Deduct	-110.70	
		For >40, Deduct	-230.73	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0454 Round Tapered, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0354) Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0455 EA 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	689.67	189.21
For Bronze Or Satin Anodized Finish, Add	31.13	
For Black Anodized Finish, Add	62.25	
For >10 To 20, Deduct	-21.91	
For >20 To 40, Deduct	-40.71	
For >40, Deduct	-84.53	
26 56 13 00-0456 EA 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	719.12	189.21
For Bronze Or Satin Anodized Finish, Add	34.07	
For Black Anodized Finish, Add	68.14	
For >10 To 20, Deduct	-23.09	
For >20 To 40, Deduct	-42.77	
For >40, Deduct	-88.95	
26 56 13 00-0457 EA 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	781.15	208.13
For Bronze Or Satin Anodized Finish, Add	36.49	
For Black Anodized Finish, Add	72.98	
For >10 To 20, Deduct	-25.00	
For >20 To 40, Deduct	-46.36	
For >40, Deduct	-96.36	
26 56 13 00-0458 EA 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	835.82	227.04
For Bronze Or Satin Anodized Finish, Add	38.17	
For Black Anodized Finish, Add	76.35	
For >10 To 20, Deduct	-26.62	
For >20 To 40, Deduct	-49.43	
For >40, Deduct	-102.67	
26 56 13 00-0459 EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	873.68	227.04
For Bronze Or Satin Anodized Finish, Add	41.96	
For Black Anodized Finish, Add	83.92	
For >10 To 20, Deduct	-28.14	
For >20 To 40, Deduct	-52.08	
For >40, Deduct	-108.35	
26 56 13 00-0460 EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	809.54	208.13
For Bronze Or Satin Anodized Finish, Add	39.33	
For Black Anodized Finish, Add	78.66	
For >10 To 20, Deduct	-26.14	
For >20 To 40, Deduct	-48.34	
For >40, Deduct	-100.62	
26 56 13 00-0461 EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	876.83	227.04
For Bronze Or Satin Anodized Finish, Add	42.27	
For Black Anodized Finish, Add	84.55	
For >10 To 20, Deduct	-28.26	
For >20 To 40, Deduct	-52.30	
For >40, Deduct	-108.82	
26 56 13 00-0462 EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	897.87	227.04
For Bronze Or Satin Anodized Finish, Add	44.38	
For Black Anodized Finish, Add	88.76	
For >10 To 20, Deduct	-29.10	
For >20 To 40, Deduct	-53.77	
For >40, Deduct	-111.98	
26 56 13 00-0463 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	969.36	245.96
For Bronze Or Satin Anodized Finish, Add	47.74	
For Black Anodized Finish, Add	95.49	
For >10 To 20, Deduct	-31.40	
For >20 To 40, Deduct	-58.02	
For >40, Deduct	-120.81	
26 56 13 00-0464 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,036.63	264.88
For Bronze Or Satin Anodized Finish, Add	50.69	
For Black Anodized Finish, Add	101.37	
For >10 To 20, Deduct	-33.52	
For >20 To 40, Deduct	-61.97	
For >40, Deduct	-129.01	
26 56 13 00-0465 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	958.86	227.04
For Bronze Or Satin Anodized Finish, Add	50.48	
For Black Anodized Finish, Add	100.95	
For >10 To 20, Deduct	-31.54	
For >20 To 40, Deduct	-58.04	
For >40, Deduct	-121.12	
26 56 13 00-0466 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,036.66	245.96
For Bronze Or Satin Anodized Finish, Add	54.47	
For Black Anodized Finish, Add	108.95	
For >10 To 20, Deduct	-34.09	
For >20 To 40, Deduct	-62.73	
For >40, Deduct	-130.90	
26 56 13 00-0467 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,109.19	264.88
For Bronze Or Satin Anodized Finish, Add	57.94	
For Black Anodized Finish, Add	115.89	
For >10 To 20, Deduct	-36.42	
For >20 To 40, Deduct	-67.05	
For >40, Deduct	-139.89	
26 56 13 00-0468 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,122.89	245.96
For Bronze Or Satin Anodized Finish, Add	63.10	
For Black Anodized Finish, Add	126.19	
For >10 To 20, Deduct	-37.54	
For >20 To 40, Deduct	-68.76	
For >40, Deduct	-143.84	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0469	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,433.06	302.72
		For Bronze Or Satin Anodized Finish, Add	82.76	
		For Black Anodized Finish, Add	165.52	
		For >10 To 20, Deduct	-48.24	
		For >20 To 40, Deduct	-88.21	
		For >40, Deduct	-184.69	
26 56 13 00-0470	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,551.89	302.72
		For Bronze Or Satin Anodized Finish, Add	94.64	
		For Black Anodized Finish, Add	189.29	
		For >10 To 20, Deduct	-52.99	
		For >20 To 40, Deduct	-96.52	
		For >40, Deduct	-202.51	
26 56 13 00-0471	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,729.57	340.57
		For Bronze Or Satin Anodized Finish, Add	104.85	
		For Black Anodized Finish, Add	209.69	
		For >10 To 20, Deduct	-58.97	
		For >20 To 40, Deduct	-107.45	
		For >40, Deduct	-225.38	
26 56 13 00-0472	EA	30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,858.91	340.57
		For Bronze Or Satin Anodized Finish, Add	117.78	
		For Black Anodized Finish, Add	235.56	
		For >10 To 20, Deduct	-64.14	
		For >20 To 40, Deduct	-116.50	
		For >40, Deduct	-244.78	
26 56 13 00-0473		Square Straight, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0474		Square Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0473)		
26 56 13 00-0475	EA	8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	888.40	227.04
		For Bronze Or Satin Anodized Finish, Add	43.43	
		For Black Anodized Finish, Add	86.86	
		For >10 To 20, Deduct	-28.72	
		For >20 To 40, Deduct	-53.11	
		For >40, Deduct	-110.56	
26 56 13 00-0476	EA	10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	986.15	264.88
		For Bronze Or Satin Anodized Finish, Add	45.64	
		For Black Anodized Finish, Add	91.28	
		For >10 To 20, Deduct	-31.50	
		For >20 To 40, Deduct	-58.44	
		For >40, Deduct	-121.43	
26 56 13 00-0477	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,092.34	302.72
		For Bronze Or Satin Anodized Finish, Add	48.69	
		For Black Anodized Finish, Add	97.38	
		For >10 To 20, Deduct	-34.61	
		For >20 To 40, Deduct	-64.35	
		For >40, Deduct	-133.58	
26 56 13 00-0478	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,197.46	340.57
		For Bronze Or Satin Anodized Finish, Add	51.63	
		For Black Anodized Finish, Add	103.27	
		For >10 To 20, Deduct	-37.68	
		For >20 To 40, Deduct	-70.20	
		For >40, Deduct	-145.56	
26 56 13 00-0479	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,254.23	359.49
		For Bronze Or Satin Anodized Finish, Add	53.53	
		For Black Anodized Finish, Add	107.05	
		For >10 To 20, Deduct	-39.38	
		For >20 To 40, Deduct	-73.42	
		For >40, Deduct	-152.19	
26 56 13 00-0480	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,311.00	378.40
		For Bronze Or Satin Anodized Finish, Add	55.42	
		For Black Anodized Finish, Add	110.84	
		For >10 To 20, Deduct	-41.09	
		For >20 To 40, Deduct	-76.63	
		For >40, Deduct	-158.81	
26 56 13 00-0481	EA	18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,422.44	416.24
		For Bronze Or Satin Anodized Finish, Add	59.00	
		For Black Anodized Finish, Add	117.99	
		For >10 To 20, Deduct	-44.41	
		For >20 To 40, Deduct	-82.92	
		For >40, Deduct	-171.74	
26 56 13 00-0482	EA	20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,543.34	454.09
		For Bronze Or Satin Anodized Finish, Add	63.52	
		For Black Anodized Finish, Add	127.03	
		For >10 To 20, Deduct	-48.11	
		For >20 To 40, Deduct	-89.87	
		For >40, Deduct	-186.09	
26 56 13 00-0483	EA	16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,383.56	378.40
		For Bronze Or Satin Anodized Finish, Add	62.68	
		For Black Anodized Finish, Add	125.35	
		For >10 To 20, Deduct	-43.99	
		For >20 To 40, Deduct	-81.71	
		For >40, Deduct	-169.69	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0484	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,497.10	416.24
		For Bronze Or Satin Anodized Finish, Add	.....	66.46	
		For Black Anodized Finish, Add	.....	132.92	
		For >10 To 20, Deduct	.....	-47.40	
		For >20 To 40, Deduct	.....	-88.15	
		For >40, Deduct	.....	-182.94	
26 56 13 00-0485	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,624.31	454.09
		For Bronze Or Satin Anodized Finish, Add	.....	71.61	
		For Black Anodized Finish, Add	.....	143.23	
		For >10 To 20, Deduct	.....	-51.35	
		For >20 To 40, Deduct	.....	-95.54	
		For >40, Deduct	.....	-198.24	
26 56 13 00-0486	EA	15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,569.71	359.49
		For Bronze Or Satin Anodized Finish, Add	.....	85.07	
		For Black Anodized Finish, Add	.....	170.15	
		For >10 To 20, Deduct	.....	-52.00	
		For >20 To 40, Deduct	.....	-95.50	
		For >40, Deduct	.....	-199.51	
26 56 13 00-0487	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,926.12	454.09
		For Bronze Or Satin Anodized Finish, Add	.....	101.80	
		For Black Anodized Finish, Add	.....	203.59	
		For >10 To 20, Deduct	.....	-63.42	
		For >20 To 40, Deduct	.....	-116.67	
		For >40, Deduct	.....	-243.51	
26 56 13 00-0488	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,360.30	605.45
		For Bronze Or Satin Anodized Finish, Add	.....	114.94	
		For Black Anodized Finish, Add	.....	229.88	
		For >10 To 20, Deduct	.....	-76.25	
		For >20 To 40, Deduct	.....	-141.00	
		For >40, Deduct	.....	-293.50	
26 56 13 00-0489	EA	20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,689.51	454.09
		For Bronze Or Satin Anodized Finish, Add	.....	78.13	
		For Black Anodized Finish, Add	.....	156.27	
		For >10 To 20, Deduct	.....	-53.96	
		For >20 To 40, Deduct	.....	-100.10	
		For >40, Deduct	.....	-208.02	
26 56 13 00-0490	EA	20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,053.36	454.09
		For Bronze Or Satin Anodized Finish, Add	.....	114.52	
		For Black Anodized Finish, Add	.....	229.04	
		For >10 To 20, Deduct	.....	-68.51	
		For >20 To 40, Deduct	.....	-125.57	
		For >40, Deduct	.....	-262.60	
26 56 13 00-0491	EA	25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,475.97	605.45
		For Bronze Or Satin Anodized Finish, Add	.....	126.51	
		For Black Anodized Finish, Add	.....	253.01	
		For >10 To 20, Deduct	.....	-80.88	
		For >20 To 40, Deduct	.....	-149.10	
		For >40, Deduct	.....	-310.85	
26 56 13 00-0492	EA	20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,253.17	454.09
		For Bronze Or Satin Anodized Finish, Add	.....	134.50	
		For Black Anodized Finish, Add	.....	269.00	
		For >10 To 20, Deduct	.....	-76.50	
		For >20 To 40, Deduct	.....	-139.56	
		For >40, Deduct	.....	-292.57	
26 56 13 00-0493	EA	25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,736.77	605.45
		For Bronze Or Satin Anodized Finish, Add	.....	152.59	
		For Black Anodized Finish, Add	.....	305.17	
		For >10 To 20, Deduct	.....	-91.31	
		For >20 To 40, Deduct	.....	-167.36	
		For >40, Deduct	.....	-349.97	
26 56 13 00-0494	EA	30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	3,159.44	681.12
		For Bronze Or Satin Anodized Finish, Add	.....	179.72	
		For Black Anodized Finish, Add	.....	359.44	
		For >10 To 20, Deduct	.....	-105.94	
		For >20 To 40, Deduct	.....	-193.92	
		For >40, Deduct	.....	-405.80	
26 56 13 00-0495	Square Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0473)				
	Note: Includes rubberized undercoating on embedded portion.				
26 56 13 00-0496	EA	10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	.....	792.73	189.21
		For Bronze Or Satin Anodized Finish, Add	.....	41.43	
		For Black Anodized Finish, Add	.....	82.87	
		For >10 To 20, Deduct	.....	-26.03	
		For >20 To 40, Deduct	.....	-47.92	
		For >40, Deduct	.....	-99.99	
26 56 13 00-0497	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	.....	884.20	208.13
		For Bronze Or Satin Anodized Finish, Add	.....	46.80	
		For Black Anodized Finish, Add	.....	93.59	
		For >10 To 20, Deduct	.....	-29.12	
		For >20 To 40, Deduct	.....	-53.57	
		For >40, Deduct	.....	-111.82	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0498	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	944.14	227.04
		For Bronze Or Satin Anodized Finish, Add	49.01	
		For Black Anodized Finish, Add	98.01	
		For >10 To 20, Deduct	-30.95	
		For >20 To 40, Deduct	-57.01	
		For >40, Deduct	-118.92	
26 56 13 00-0499	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	970.43	227.04
		For Bronze Or Satin Anodized Finish, Add	51.63	
		For Black Anodized Finish, Add	103.27	
		For >10 To 20, Deduct	-32.01	
		For >20 To 40, Deduct	-58.85	
		For >40, Deduct	-122.86	
26 56 13 00-0500	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	1,003.03	227.04
		For Bronze Or Satin Anodized Finish, Add	54.89	
		For Black Anodized Finish, Add	109.79	
		For >10 To 20, Deduct	-33.31	
		For >20 To 40, Deduct	-61.13	
		For >40, Deduct	-127.75	
26 56 13 00-0501	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,152.33	245.96
		For Bronze Or Satin Anodized Finish, Add	66.04	
		For Black Anodized Finish, Add	132.08	
		For >10 To 20, Deduct	-38.71	
		For >20 To 40, Deduct	-70.82	
		For >40, Deduct	-148.25	
26 56 13 00-0502	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,235.38	264.88
		For Bronze Or Satin Anodized Finish, Add	70.56	
		For Black Anodized Finish, Add	141.12	
		For >10 To 20, Deduct	-41.47	
		For >20 To 40, Deduct	-75.88	
		For >40, Deduct	-158.82	
26 56 13 00-0503	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,400.48	264.88
		For Bronze Or Satin Anodized Finish, Add	87.07	
		For Black Anodized Finish, Add	174.14	
		For >10 To 20, Deduct	-48.07	
		For >20 To 40, Deduct	-87.44	
		For >40, Deduct	-183.58	
26 56 13 00-0504	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,608.68	302.72
		For Bronze Or Satin Anodized Finish, Add	100.32	
		For Black Anodized Finish, Add	200.65	
		For >10 To 20, Deduct	-55.27	
		For >20 To 40, Deduct	-100.50	
		For >40, Deduct	-211.03	
26 56 13 00-0505	EA	25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial	1,977.79	302.72
		For Bronze Or Satin Anodized Finish, Add	137.23	
		For Black Anodized Finish, Add	274.47	
		For >10 To 20, Deduct	-70.03	
		For >20 To 40, Deduct	-126.34	
		For >40, Deduct	-266.40	
26 56 13 00-0506		Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0507	EA	1/2", 3/4" Or 1" Diameter, Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles.....	85.62	
26 56 13 00-0508	EA	Extra Handhole For Aluminum Area Light Poles.....	39.20	
26 56 13 00-0509	EA	Vibration Dampener For Aluminum Area Light Poles	129.53	
26 56 13 00-0510		Fiberglass Area Light Poles (26 56 13 00-0177)		
		Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56 13 00-0511		Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0512		Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0511)		
26 56 13 00-0513	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,320.28	264.88
		For >10 To 20, Deduct	-44.86	
		For >20 To 40, Deduct	-81.82	
		For >40, Deduct	-171.55	
26 56 13 00-0514	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,443.02	302.72
		For >10 To 20, Deduct	-48.64	
		For >20 To 40, Deduct	-88.90	
		For >40, Deduct	-186.18	
26 56 13 00-0515	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,567.09	340.57
		For >10 To 20, Deduct	-52.47	
		For >20 To 40, Deduct	-96.07	
		For >40, Deduct	-201.01	
26 56 13 00-0516	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,689.84	378.40
		For >10 To 20, Deduct	-56.24	
		For >20 To 40, Deduct	-103.15	
		For >40, Deduct	-215.64	
26 56 13 00-0517	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,836.77	416.24
		For >10 To 20, Deduct	-60.98	
		For >20 To 40, Deduct	-111.92	
		For >40, Deduct	-233.89	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0518	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,962.20	454.09
		For >10 To 20, Deduct		-64.87	
		For >20 To 40, Deduct		-119.19	
		For >40, Deduct		-248.92	
26 56 13 00-0519	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,161.95	529.76
		For >10 To 20, Deduct		-70.59	
		For >20 To 40, Deduct		-130.15	
		For >40, Deduct		-271.32	
26 56 13 00-0520	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,360.38	605.45
		For >10 To 20, Deduct		-76.25	
		For >20 To 40, Deduct		-141.01	
		For >40, Deduct		-293.51	
26 56 13 00-0521	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,469.28	605.45
		For >10 To 20, Deduct		-80.61	
		For >20 To 40, Deduct		-148.63	
		For >40, Deduct		-309.85	
26 56 13 00-0522	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,640.40	643.29
		For >10 To 20, Deduct		-86.32	
		For >20 To 40, Deduct		-159.10	
		For >40, Deduct		-331.73	
26 56 13 00-0523	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,811.54	681.12
		For >10 To 20, Deduct		-92.03	
		For >20 To 40, Deduct		-169.56	
		For >40, Deduct		-353.62	
26 56 13 00-0524	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,443.97	264.88
		For >10 To 20, Deduct		-49.81	
		For >20 To 40, Deduct		-90.48	
		For >40, Deduct		-190.11	
26 56 13 00-0525	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,542.51	302.72
		For >10 To 20, Deduct		-52.62	
		For >20 To 40, Deduct		-95.87	
		For >40, Deduct		-201.10	
26 56 13 00-0526	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,642.38	340.57
		For >10 To 20, Deduct		-55.48	
		For >20 To 40, Deduct		-101.34	
		For >40, Deduct		-212.30	
26 56 13 00-0527	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,744.96	378.40
		For >10 To 20, Deduct		-58.45	
		For >20 To 40, Deduct		-107.01	
		For >40, Deduct		-223.90	
26 56 13 00-0528	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,854.25	416.24
		For >10 To 20, Deduct		-61.68	
		For >20 To 40, Deduct		-113.15	
		For >40, Deduct		-236.51	
26 56 13 00-0529	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,962.20	454.09
		For >10 To 20, Deduct		-64.87	
		For >20 To 40, Deduct		-119.19	
		For >40, Deduct		-248.92	
26 56 13 00-0530	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,145.82	529.76
		For >10 To 20, Deduct		-69.94	
		For >20 To 40, Deduct		-129.02	
		For >40, Deduct		-268.90	
26 56 13 00-0531	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,360.38	605.45
		For >10 To 20, Deduct		-76.25	
		For >20 To 40, Deduct		-141.01	
		For >40, Deduct		-293.51	
26 56 13 00-0532	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,406.09	605.45
		For >10 To 20, Deduct		-78.08	
		For >20 To 40, Deduct		-144.21	
		For >40, Deduct		-300.37	
26 56 13 00-0533	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,528.81	643.29
		For >10 To 20, Deduct		-81.85	
		For >20 To 40, Deduct		-151.29	
		For >40, Deduct		-314.99	
26 56 13 00-0534	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	2,651.56	681.12
		For >10 To 20, Deduct		-85.63	
		For >20 To 40, Deduct		-158.36	
		For >40, Deduct		-329.62	
26 56 13 00-0535	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,625.46	264.88
		For >10 To 20, Deduct		-57.07	
		For >20 To 40, Deduct		-103.19	
		For >40, Deduct		-217.33	
26 56 13 00-0536	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,742.83	302.72
		For >10 To 20, Deduct		-60.63	
		For >20 To 40, Deduct		-109.89	
		For >40, Deduct		-231.15	
26 56 13 00-0537	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,860.18	340.57
		For >10 To 20, Deduct		-64.19	
		For >20 To 40, Deduct		-116.59	
		For >40, Deduct		-244.97	
26 56 13 00-0538	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	.....	1,978.89	378.40
		For >10 To 20, Deduct		-67.80	
		For >20 To 40, Deduct		-123.39	
		For >40, Deduct		-258.99	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0539 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,102.97	416.24
For>10 To 20, Deduct	-71.63	
For>20 To 40, Deduct	-130.56	
For>40, Deduct	-273.82	
26 56 13 00-0540 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,235.11	454.09
For>10 To 20, Deduct	-75.78	
For>20 To 40, Deduct	-138.29	
For>40, Deduct	-289.86	
26 56 13 00-0541 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,455.04	529.76
For>10 To 20, Deduct	-82.31	
For>20 To 40, Deduct	-150.66	
For>40, Deduct	-315.28	
26 56 13 00-0542 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,676.32	605.45
For>10 To 20, Deduct	-88.89	
For>20 To 40, Deduct	-163.12	
For>40, Deduct	-340.90	
26 56 13 00-0543 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,746.23	605.45
For>10 To 20, Deduct	-91.69	
For>20 To 40, Deduct	-168.02	
For>40, Deduct	-351.39	
26 56 13 00-0544 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,932.14	643.29
For>10 To 20, Deduct	-97.99	
For>20 To 40, Deduct	-179.52	
For>40, Deduct	-375.49	
26 56 13 00-0545 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,087.15	681.12
For>10 To 20, Deduct	-103.05	
For>20 To 40, Deduct	-188.86	
For>40, Deduct	-394.96	
26 56 13 00-0546 EA 32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,204.30	700.05
For>10 To 20, Deduct	-107.17	
For>20 To 40, Deduct	-196.30	
For>40, Deduct	-410.64	
26 56 13 00-0547 EA 34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,321.46	718.97
For>10 To 20, Deduct	-111.29	
For>20 To 40, Deduct	-203.74	
For>40, Deduct	-426.32	
26 56 13 00-0548 Round Tapered, Fiberglass Area Light Poles, Direct Burial (26 56 13 00-0511)		
26 56 13 00-0549 EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	830.13	189.21
For>10 To 20, Deduct	-27.53	
For>20 To 40, Deduct	-50.54	
For>40, Deduct	-105.60	
26 56 13 00-0550 EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	893.51	208.13
For>10 To 20, Deduct	-29.50	
For>20 To 40, Deduct	-54.22	
For>40, Deduct	-113.21	
26 56 13 00-0551 EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	955.56	227.04
For>10 To 20, Deduct	-31.41	
For>20 To 40, Deduct	-57.81	
For>40, Deduct	-120.63	
26 56 13 00-0552 EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	978.41	227.04
For>10 To 20, Deduct	-32.33	
For>20 To 40, Deduct	-59.41	
For>40, Deduct	-124.06	
26 56 13 00-0553 EA 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,053.90	245.96
For>10 To 20, Deduct	-34.78	
For>20 To 40, Deduct	-63.93	
For>40, Deduct	-133.49	
26 56 13 00-0554 EA 20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,118.62	264.88
For>10 To 20, Deduct	-36.80	
For>20 To 40, Deduct	-67.71	
For>40, Deduct	-141.31	
26 56 13 00-0555 EA 22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,187.39	283.80
For>10 To 20, Deduct	-38.98	
For>20 To 40, Deduct	-71.77	
For>40, Deduct	-149.73	
26 56 13 00-0556 EA 24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,262.87	302.72
For>10 To 20, Deduct	-41.43	
For>20 To 40, Deduct	-76.29	
For>40, Deduct	-159.16	
26 56 13 00-0557 EA 26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,391.94	302.72
For>10 To 20, Deduct	-46.60	
For>20 To 40, Deduct	-85.33	
For>40, Deduct	-178.52	
26 56 13 00-0558 EA 28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,558.84	321.65
For>10 To 20, Deduct	-52.70	
For>20 To 40, Deduct	-96.25	
For>40, Deduct	-201.66	
26 56 13 00-0559 EA 30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,725.73	340.57
For>10 To 20, Deduct	-58.81	
For>20 To 40, Deduct	-107.18	
For>40, Deduct	-224.80	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0560	EA	10'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	953.81	189.21
			For >10 To 20, Deduct	-32.48	
			For >20 To 40, Deduct	-59.20	
			For >40, Deduct	-124.15	
26 56 13 00-0561	EA	12'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,023.92	208.13
			For >10 To 20, Deduct	-34.71	
			For >20 To 40, Deduct	-63.35	
			For >40, Deduct	-132.78	
26 56 13 00-0562	EA	14'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,094.03	227.04
			For >10 To 20, Deduct	-36.95	
			For >20 To 40, Deduct	-67.50	
			For >40, Deduct	-141.40	
26 56 13 00-0563	EA	16'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,127.64	227.04
			For >10 To 20, Deduct	-38.29	
			For >20 To 40, Deduct	-69.85	
			For >40, Deduct	-146.44	
26 56 13 00-0564	EA	18'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,197.75	245.96
			For >10 To 20, Deduct	-40.53	
			For >20 To 40, Deduct	-74.00	
			For >40, Deduct	-155.07	
26 56 13 00-0565	EA	20'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,267.85	264.88
			For >10 To 20, Deduct	-42.77	
			For >20 To 40, Deduct	-78.15	
			For >40, Deduct	-163.69	
26 56 13 00-0566	EA	22'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,337.96	283.80
			For >10 To 20, Deduct	-45.00	
			For >20 To 40, Deduct	-82.31	
			For >40, Deduct	-172.31	
26 56 13 00-0567	EA	24'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,438.99	302.72
			For >10 To 20, Deduct	-48.48	
			For >20 To 40, Deduct	-88.62	
			For >40, Deduct	-185.58	
26 56 13 00-0568	EA	26'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,564.02	302.72
			For >10 To 20, Deduct	-53.48	
			For >20 To 40, Deduct	-97.37	
			For >40, Deduct	-204.33	
26 56 13 00-0569	EA	28'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,728.24	321.65
			For >10 To 20, Deduct	-59.48	
			For >20 To 40, Deduct	-108.11	
			For >40, Deduct	-227.07	
26 56 13 00-0570	EA	30'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,891.10	340.57
			For >10 To 20, Deduct	-65.43	
			For >20 To 40, Deduct	-118.75	
			For >40, Deduct	-249.61	
26 56 13 00-0571	EA	10'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,062.71	189.21
			For >10 To 20, Deduct	-36.83	
			For >20 To 40, Deduct	-66.82	
			For >40, Deduct	-140.49	
26 56 13 00-0572	EA	12'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,124.75	208.13
			For >10 To 20, Deduct	-38.75	
			For >20 To 40, Deduct	-70.41	
			For >40, Deduct	-147.90	
26 56 13 00-0573	EA	14'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,185.45	227.04
			For >10 To 20, Deduct	-40.61	
			For >20 To 40, Deduct	-73.90	
			For >40, Deduct	-155.11	
26 56 13 00-0574	EA	16'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,208.31	227.04
			For >10 To 20, Deduct	-41.52	
			For >20 To 40, Deduct	-75.50	
			For >40, Deduct	-158.54	
26 56 13 00-0575	EA	18'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,269.00	245.96
			For >10 To 20, Deduct	-43.38	
			For >20 To 40, Deduct	-78.99	
			For >40, Deduct	-165.75	
26 56 13 00-0576	EA	20'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,331.03	264.88
			For >10 To 20, Deduct	-45.29	
			For >20 To 40, Deduct	-82.58	
			For >40, Deduct	-173.17	
26 56 13 00-0577	EA	22'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,438.79	283.80
			For >10 To 20, Deduct	-49.04	
			For >20 To 40, Deduct	-89.36	
			For >40, Deduct	-187.44	
26 56 13 00-0578	EA	24'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,562.68	302.72
			For >10 To 20, Deduct	-53.43	
			For >20 To 40, Deduct	-97.28	
			For >40, Deduct	-204.13	
26 56 13 00-0579	EA	26'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,640.65	302.72
			For >10 To 20, Deduct	-56.54	
			For >20 To 40, Deduct	-102.74	
			For >40, Deduct	-215.83	
26 56 13 00-0580	EA	28'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,757.81	321.65
			For >10 To 20, Deduct	-60.66	
			For >20 To 40, Deduct	-110.18	
			For >40, Deduct	-231.51	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0581 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,874.96 -64.78 -117.62 -247.19	340.57
26 56 13 00-0582 Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0583 EA Open Or Capped Top For Fiberglass Area Light Poles.....	47.67	
26 56 13 00-0584 EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	47.67	
26 56 13 00-0585 EA Smooth Shaft Finish For Fiberglass Area Light Poles.....	90.44	
26 56 13 00-0586 EA Vibration Dampener For Fiberglass Area Light Poles.....	119.78	
26 56 13 00-0587 Concrete Area Light Poles (26 56 13 00-0177)		
26 56 13 00-0588 Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)		
26 56 13 00-0589 EA 28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,447.47	643.29
26 56 13 00-0590 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,581.20	681.12
26 56 13 00-0591 EA 33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,675.73	700.05
26 56 13 00-0592 EA 36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,285.65	718.97
26 56 13 00-0593 EA 38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,638.49	756.81
26 56 13 00-0594 EA 43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,516.31	983.85
26 56 13 00-0595 EA 47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	5,419.32	1,210.90
26 56 13 00-0596 EA 27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	5,108.65	643.29
26 56 13 00-0597 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	5,879.28	681.12
26 56 13 00-0598 EA Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	752.91	227.04
26 56 13 00-0599 EA 13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	3,057.95	453.93
26 56 13 00-0600 EA Pole Base Cover For All Octagon Poles.....	291.79	92.64
26 56 13 00-0601 EA Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	598.54	185.27
26 56 13 00-0602 Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
Note: Round or square.		
26 56 13 00-0603 EA 13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,523.12	302.72
26 56 13 00-0604 EA 16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,860.98	378.40
26 56 13 00-0605 EA 18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,169.06	454.09
26 56 13 00-0606 EA 30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	4,428.90	681.12
26 56 13 00-0607 EA 35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,089.04	718.97
26 56 13 00-0608 EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,802.01	756.81
26 56 13 00-0609 EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	6,754.99	983.85
26 56 13 00-0610 Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
26 56 13 00-0611 EA 60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	19,797.07	1,702.82
26 56 13 00-0612 EA 70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	23,599.91	2,096.42
26 56 13 00-0613 EA 80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	28,007.84	2,832.01
26 56 13 00-0614 Treated Wood Area Light Poles (26 56 13 00-0177)		
See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0615 Cast Iron Decorative Light Posts (26 56 13 00-0177)		
26 56 13 00-0616 Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615)		
Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617 EA 10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,457.46	189.21
26 56 13 00-0618 EA 12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,543.64	217.96
26 56 13 00-0619 EA 14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,670.59	227.04
26 56 13 00-0620 EA 16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,047.51	264.88
26 56 13 00-0621 EA 18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,383.60	287.59
26 56 13 00-0622 EA 20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,735.54	310.29
26 56 13 00-0623 Landscape Light Poles (26 56 13 00-0001)		
Note: Excludes lighting fixtures.		
26 56 13 00-0624 Aluminum Landscape Light Poles (26 56 13 00-0623)		
Note: Includes painted finish.		
26 56 13 00-0625 Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)		
26 56 13 00-0626 Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)		
26 56 13 00-0627 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	547.67	227.04
26 56 13 00-0628 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	901.62	302.72
26 56 13 00-0629 Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)		
26 56 13 00-0630 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	503.63	227.04
26 56 13 00-0631 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	857.58	302.72



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 56 13 00-0632	Steel Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.				
26 56 13 00-0633	Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)				
26 56 13 00-0634	Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)				
26 56 13 00-0635	EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....	600.27		227.04	
26 56 13 00-0636	Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)				
26 56 13 00-0637	EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....	567.52		227.04	
26 56 13 00-0638	Light Pole Brackets And Arms (26 56 13 00-0601)				
26 56 13 00-0639	Light Pole Brackets (26 56 13 00-0638)				
26 56 13 00-0640	Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)				
26 56 13 00-0641	Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)				
26 56 13 00-0642	Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes powdercoat finish.				
26 56 13 00-0643	EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	677.05 58.62		45.41	
26 56 13 00-0644	EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	853.92 76.31		45.41	
26 56 13 00-0645	EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	907.91 81.71		45.41	
26 56 13 00-0646	EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	1,241.17 115.04		45.41	
26 56 13 00-0647	EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	1,293.07 120.23		45.41	
26 56 13 00-0648	Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes satin brushed or painted finish.				
26 56 13 00-0649	EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	262.23 17.14 34.28		45.41	
26 56 13 00-0650	EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	316.91 22.61 45.22		45.41	
26 56 13 00-0651	EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	331.64 24.08 48.16		45.41	
26 56 13 00-0652	EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	383.16 29.23 58.47		45.41	
26 56 13 00-0653	EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add	393.68 30.29 60.57		45.41	
26 56 13 00-0654	Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)				
26 56 13 00-0655	Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654) Note: Includes powdercoat finish.				
26 56 13 00-0656	EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	727.55 63.67		45.41	
26 56 13 00-0657	EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	896.97 80.62		45.41	
26 56 13 00-0658	EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	1,095.95 100.51		45.41	
26 56 13 00-0659	EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... For Galvanized Finish, Add	1,295.86 120.50		45.41	
26 56 13 00-0660	Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)				
26 56 13 00-0661	Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660) Note: Includes powdercoat finish.				
26 56 13 00-0662	EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	693.60		75.68	
26 56 13 00-0663	EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,040.36		75.68	
26 56 13 00-0664	EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,450.65		75.68	
26 56 13 00-0665	EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,585.63		75.68	
26 56 13 00-0666	Light Pole Arms (26 56 13 00-0638)				
26 56 13 00-0667	Wood Pole Streetlight Arms (26 56 13 00-0666)				
26 56 13 00-0668	Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)				
26 56 13 00-0669	EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	406.65		68.11	
26 56 13 00-0670	EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	430.86		75.68	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0671	EA	1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	500.59	94.60
26 56 13 00-0672	EA	2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	597.02	75.68
26 56 13 00-0673	EA	2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	666.29	94.60
26 56 13 00-0674	EA	2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	808.61	113.52
26 56 13 00-0675		Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0676	EA	1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	269.11	75.68
26 56 13 00-0677	EA	2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	329.51	75.68
26 56 13 00-0678	EA	2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	439.10	94.60
26 56 13 00-0679	EA	2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	573.71	113.52
26 56 13 00-0680		Area Light Arms (26 56 13 00-0666)		
26 56 13 00-0681		Steel Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0682	EA	Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	769.61	75.68
26 56 13 00-0683	EA	Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,202.56	83.25
26 56 13 00-0684	EA	Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,336.02	90.82
26 56 13 00-0685	EA	Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,585.42	98.38
26 56 13 00-0686	EA	Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	918.56	94.60
26 56 13 00-0687	EA	Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,308.02	102.17
26 56 13 00-0688		Aluminum Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0689	EA	Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	322.77	75.68
26 56 13 00-0690	EA	Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	398.48	94.60
26 56 13 00-0691	EA	Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	476.27	113.52
26 56 13 00-0692	EA	Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	320.67	75.68
26 56 13 00-0693	EA	Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	449.38	83.25
26 56 13 00-0694	EA	Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	394.27	94.60
26 56 13 00-0695	EA	Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	548.21	102.17
26 56 13 00-0696	EA	Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	478.37	113.52
26 56 13 00-0697	EA	Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	664.92	121.09
26 56 13 00-0698		Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0699	EA	Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms.....	2,497.72	
26 56 13 00-0700		High Mast Lighting (26 56 13 00-0001)		
26 56 13 00-0701		High Mast Lighting Assemblies (26 56 13 00-0700)		
Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures.				
26 56 13 00-0702	EA	60' High Mast Lighting Assembly.....	60,488.77	2,327.10
26 56 13 00-0703	EA	70' High Mast Lighting Assembly.....	63,894.80	2,437.29
26 56 13 00-0704	EA	80' High Mast Lighting Assembly.....	67,339.38	2,596.48
26 56 13 00-0705	EA	90' High Mast Lighting Assembly.....	70,820.44	2,804.64
26 56 13 00-0706	EA	100' High Mast Lighting Assembly.....	74,321.65	3,061.70
26 56 13 00-0707	EA	110' High Mast Lighting Assembly.....	78,827.27	3,368.10
26 56 13 00-0708	EA	120' High Mast Lighting Assembly.....	82,467.82	3,674.25
26 56 13 00-0709	EA	130' High Mast Lighting Assembly.....	85,830.23	3,980.40
26 56 13 00-0710	EA	140' High Mast Lighting Assembly.....	89,470.77	4,286.70
26 56 13 00-0711	EA	150' High Mast Lighting Assembly.....	93,898.26	4,592.85
26 56 13 00-0712		High Mast Light Poles (26 56 13 00-0700)		
26 56 13 00-0713	EA	60' High Mast Light Poles.....	23,008.93	1,397.61
26 56 13 00-0714	EA	70' High Mast Light Poles.....	26,381.87	1,463.82
26 56 13 00-0715	EA	80' High Mast Light Poles.....	29,778.63	1,559.44
26 56 13 00-0716	EA	90' High Mast Light Poles.....	33,197.17	1,684.49
26 56 13 00-0717	EA	100' High Mast Light Poles.....	36,639.53	1,838.97
26 56 13 00-0718	EA	110' High Mast Light Poles.....	40,105.71	2,022.86
26 56 13 00-0719	EA	120' High Mast Light Poles.....	42,727.25	2,206.75
26 56 13 00-0720	EA	130' High Mast Light Poles.....	42,677.97	4,089.86
26 56 13 00-0721	EA	140' High Mast Light Poles.....	47,690.16	2,574.55
26 56 13 00-0722	EA	150' High Mast Light Poles.....	50,591.89	2,758.45
26 56 13 00-0723		High Mast Lighting Accessories (26 56 13 00-0700)		
See CSI section 26 55 13 00-0120 for lighting fixtures, 26 56 21 00-0001 for light fixtures.				
26 56 13 00-0724	EA	Bottom Latching System For High Mast Lighting.....	1,064.64	
26 56 13 00-0725	EA	Top Latching System For High Mast Lighting.....	3,012.54	
26 56 13 00-0726	EA	Centering Springs For High Mast Lighting.....	2,281.54	
26 56 13 00-0727	EA	Electric Power Cord For High Mast Lighting.....	959.31	
26 56 13 00-0728	EA	Aircraft Warning Lights For High Mast Lighting.....	1,787.82	
26 56 13 00-0729	EA	Internal Motorized Hoist For High Mast Lighting.....	19,487.41	
26 56 13 00-0730	EA	Portable Hoist Motor With Step Down Transformer For High Mast Lighting.....	19,601.16	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0731			Concrete Bases (26 56 13 00-0001)		
26 56 13 00-0732			Concrete Bases, Cast In Place (26 56 13 00-0731) Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733	EA		Minimum Charge For Cast In Place Concrete Base For Poles.....	597.50	
			Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
26 56 13 00-0734	VLF		1-1/2' Diameter Concrete Base For Poles.....	69.84	
26 56 13 00-0735	VLF		2' Diameter Concrete Base For Poles.....	97.19	
26 56 13 00-0736	VLF		2-1/2' Diameter Concrete Base For Poles.....	130.50	
26 56 13 00-0737	VLF		3' Diameter Concrete Base For Poles.....	170.97	
26 56 13 00-0738	VLF		3-1/2' Diameter Concrete Base For Poles.....	228.37	
26 56 13 00-0739	VLF		4' Diameter Concrete Base For Poles.....	286.97	
26 56 13 00-0740	VLF		5' Diameter Concrete Base For Poles.....	416.21	
26 56 13 00-0741	VLF		6' Diameter Concrete Base For Poles.....	572.09	
26 56 18			Incandescent Exterior Lighting (26 56)		
26 56 18 00-0001			Exterior Globe (26 56 18)		
26 56 18 00-0002			Incandescent, Exterior Globe (26 56 18 00-0001)		
26 56 18 00-0003	EA		100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	64.89	24.76
26 56 18 00-0004	EA		150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	97.28	24.76
26 56 18 00-0005	EA		100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	74.94	24.76
26 56 18 00-0006	EA		150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	101.15	24.76
26 56 18 00-0007			Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 18) Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 18 00-0008	EA		7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	287.65	99.04
26 56 18 00-0009	EA		9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	300.09	105.23
26 56 18 00-0010	EA		13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	329.98	111.42
26 56 18 00-0011	EA		75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	324.67	123.80
26 56 18 00-0012	EA		100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	365.04	142.37
26 56 19			LED Exterior Lighting (26 56)		
26 56 19 00-0001			LED, Roadway Lighting (26 56 19)		
26 56 19 00-0002			LED Roadway Lighting (Philips Lumec) (26 56 19 00-0001)		
26 56 19 00-0003			Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0002) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0004	EA		49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series).....	1,547.08	182.43
			For >50 To 100, Deduct.....	-77.35	
			For >100 To 250, Deduct.....	-116.03	
			For >250 To 500, Deduct.....	-184.26	
			For >500 To 1,000, Deduct.....	-252.50	
			For >1,000, Deduct.....	-320.73	
26 56 19 00-0005	EA		98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series).....	2,391.87	187.36
			For >50 To 100, Deduct.....	-119.59	
			For >100 To 250, Deduct.....	-179.39	
			For >250 To 500, Deduct.....	-289.62	
			For >500 To 1,000, Deduct.....	-399.84	
			For >1,000, Deduct.....	-510.07	
26 56 19 00-0006			Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) (26 56 19 00-0003) Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0007	EA		48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,250.01	182.43
			For >50 To 100, Deduct.....	-62.50	
			For >100 To 250, Deduct.....	-93.75	
			For >250 To 500, Deduct.....	-147.13	
			For >500 To 1,000, Deduct.....	-200.51	
			For >1,000, Deduct.....	-253.89	
26 56 19 00-0008	EA		48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,338.52	182.43
			For >50 To 100, Deduct.....	-66.93	
			For >100 To 250, Deduct.....	-100.39	
			For >250 To 500, Deduct.....	-158.19	
			For >500 To 1,000, Deduct.....	-216.00	
			For >1,000, Deduct.....	-273.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0009 EA 48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,427.03	182.43
For >50 To 100, Deduct	-71.35	
For >100 To 250, Deduct	-107.03	
For >250 To 500, Deduct	-169.26	
For >500 To 1,000, Deduct	-231.49	
For >1,000, Deduct	-293.72	
26 56 19 00-0010 LED Roadway Lighting (Lithonia) (26 56 19 00-0001)		
26 56 19 00-0011 Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) (26 56 19 00-0010)		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0012 EA 30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	2,501.16	172.57
For >50 To 100, Deduct	-125.06	
For >100 To 250, Deduct	-187.59	
For >250 To 500, Deduct	-304.02	
For >500 To 1,000, Deduct	-420.45	
For >1,000, Deduct	-536.88	
26 56 19 00-0013 EA 60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	4,137.45	177.50
For >50 To 100, Deduct	-206.87	
For >100 To 250, Deduct	-310.31	
For >250 To 500, Deduct	-508.31	
For >500 To 1,000, Deduct	-706.30	
For >1,000, Deduct	-904.30	
26 56 19 00-0014 LED Roadway Lighting (CREE® BetaLED®) (26 56 19 00-0001)		
26 56 19 00-0015 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) (26 56 19 00-0014)		
Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0016 EA 20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	872.42	167.64
For >50 To 100, Deduct	-43.62	
For >100 To 250, Deduct	-65.43	
For >250 To 500, Deduct	-100.67	
For >500 To 1,000, Deduct	-135.91	
For >1,000, Deduct	-171.15	
26 56 19 00-0017 EA 30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	973.38	172.57
For >50 To 100, Deduct	-48.67	
For >100 To 250, Deduct	-73.00	
For >250 To 500, Deduct	-113.04	
For >500 To 1,000, Deduct	-153.08	
For >1,000, Deduct	-193.13	
26 56 19 00-0018 EA 40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,094.75	177.50
For >50 To 100, Deduct	-54.74	
For >100 To 250, Deduct	-82.11	
For >250 To 500, Deduct	-127.97	
For >500 To 1,000, Deduct	-173.83	
For >1,000, Deduct	-219.69	
26 56 19 00-0019 EA 50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,197.28	182.43
For >50 To 100, Deduct	-59.86	
For >100 To 250, Deduct	-89.80	
For >250 To 500, Deduct	-140.54	
For >500 To 1,000, Deduct	-191.28	
For >1,000, Deduct	-242.02	
26 56 19 00-0020 EA 60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,299.81	187.36
For >50 To 100, Deduct	-64.99	
For >100 To 250, Deduct	-97.49	
For >250 To 500, Deduct	-153.11	
For >500 To 1,000, Deduct	-208.73	
For >1,000, Deduct	-264.35	
26 56 19 00-0021 EA 70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,540.53	192.30
For >50 To 100, Deduct	-77.03	
For >100 To 250, Deduct	-115.54	
For >250 To 500, Deduct	-182.95	
For >500 To 1,000, Deduct	-250.36	
For >1,000, Deduct	-317.78	
26 56 19 00-0022 EA 80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,643.07	197.22
For >50 To 100, Deduct	-82.15	
For >100 To 250, Deduct	-123.23	
For >250 To 500, Deduct	-195.52	
For >500 To 1,000, Deduct	-267.81	
For >1,000, Deduct	-340.11	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0023	EA		90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,744.02	202.15
			For >50 To 100, Deduct	-87.20	
			For >100 To 250, Deduct	-130.80	
			For >250 To 500, Deduct	-207.89	
			For >500 To 1,000, Deduct	-284.99	
			For >1,000, Deduct	-362.08	
26 56 19 00-0024	EA		100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,939.20	207.08
			For >50 To 100, Deduct	-96.96	
			For >100 To 250, Deduct	-145.44	
			For >250 To 500, Deduct	-232.05	
			For >500 To 1,000, Deduct	-318.65	
			For >1,000, Deduct	-405.26	
26 56 19 00-0025	EA		110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,041.74	212.01
			For >50 To 100, Deduct	-102.09	
			For >100 To 250, Deduct	-153.13	
			For >250 To 500, Deduct	-244.62	
			For >500 To 1,000, Deduct	-336.10	
			For >1,000, Deduct	-427.59	
26 56 19 00-0026	EA		120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,144.26	216.95
			For >50 To 100, Deduct	-107.21	
			For >100 To 250, Deduct	-160.82	
			For >250 To 500, Deduct	-257.19	
			For >500 To 1,000, Deduct	-353.55	
			For >1,000, Deduct	-449.92	
26 56 19 00-0027			Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) (26 56 19 00-0014)		
			Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0028	EA		40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,668.01	177.50
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-83.40	
			For >100 To 250, Deduct	-125.10	
			For >250 To 500, Deduct	-199.63	
			For >500 To 1,000, Deduct	-274.15	
			For >1,000, Deduct	-348.68	
26 56 19 00-0029	EA		60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,918.62	187.36
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-95.93	
			For >100 To 250, Deduct	-143.90	
			For >250 To 500, Deduct	-230.46	
			For >500 To 1,000, Deduct	-317.02	
			For >1,000, Deduct	-403.58	
26 56 19 00-0030	EA		80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,169.22	197.22
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-108.46	
			For >100 To 250, Deduct	-162.69	
			For >250 To 500, Deduct	-261.29	
			For >500 To 1,000, Deduct	-359.89	
			For >1,000, Deduct	-458.49	
26 56 19 00-0031	EA		100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,419.80	207.08
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-120.99	
			For >100 To 250, Deduct	-181.49	
			For >250 To 500, Deduct	-292.12	
			For >500 To 1,000, Deduct	-402.76	
			For >1,000, Deduct	-513.39	
26 56 19 00-0032	EA		120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,160.43	216.95
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-158.02	
			For >100 To 250, Deduct	-237.03	
			For >250 To 500, Deduct	-384.21	
			For >500 To 1,000, Deduct	-531.38	
			For >1,000, Deduct	-678.56	
26 56 19 00-0033	EA		140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,411.03	226.81
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-170.55	
			For >100 To 250, Deduct	-255.83	
			For >250 To 500, Deduct	-415.04	
			For >500 To 1,000, Deduct	-574.25	
			For >1,000, Deduct	-733.46	
26 56 19 00-0034	EA		160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,661.64	236.66
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-183.08	
			For >100 To 250, Deduct	-274.62	
			For >250 To 500, Deduct	-445.87	
			For >500 To 1,000, Deduct	-617.12	
			For >1,000, Deduct	-788.37	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 19 00-0035		Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) (26 56 19 00-0014)		
Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.				
26 56 19 00-0036	EA	4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	742.06	177.50
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Backlight Control Shield, Add	35.26	
		For Field Adjustable Output, Add	27.79	
		For Bird Spikes, Add	52.76	
		For Field Adjustable Output And Utility Label, Add	37.05	
		For Fuse, Add	55.57	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
		For 480 Volt, Add	83.36	
		For Multi-Level, Add	120.40	
		For >50 To 100, Deduct	-37.10	
		For >100 To 250, Deduct	-55.65	
		For >250 To 500, Deduct	-83.88	
		For >500 To 1,000, Deduct	-112.11	
		For >1,000, Deduct	-140.34	
26 56 19 00-0037	EA	5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	742.06	177.50
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Backlight Control Shield, Add	35.26	
		For Field Adjustable Output, Add	27.79	
		For Bird Spikes, Add	52.76	
		For Field Adjustable Output And Utility Label, Add	37.05	
		For Fuse, Add	55.57	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
		For 480 Volt, Add	83.36	
		For Multi-Level, Add	120.40	
		For >50 To 100, Deduct	-37.10	
		For >100 To 250, Deduct	-55.65	
		For >250 To 500, Deduct	-83.88	
		For >500 To 1,000, Deduct	-112.11	
		For >1,000, Deduct	-140.34	
26 56 19 00-0038	EA	8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	812.07	177.50
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Backlight Control Shield, Add	35.26	
		For Field Adjustable Output, Add	27.79	
		For Bird Spikes, Add	52.76	
		For Field Adjustable Output And Utility Label, Add	37.05	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
		For 480 Volt, Add	83.36	
		For >50 To 100, Deduct	-40.60	
		For >100 To 250, Deduct	-60.91	
		For >250 To 500, Deduct	-92.63	
		For >500 To 1,000, Deduct	-124.36	
		For >1,000, Deduct	-156.09	
26 56 19 00-0039	EA	8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	812.07	177.50
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Backlight Control Shield, Add	35.26	
		For Field Adjustable Output, Add	27.79	
		For Bird Spikes, Add	52.76	
		For Field Adjustable Output And Utility Label, Add	37.05	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
		For 480 Volt, Add	83.36	
		For >50 To 100, Deduct	-40.60	
		For >100 To 250, Deduct	-60.91	
		For >250 To 500, Deduct	-92.63	
		For >500 To 1,000, Deduct	-124.36	
		For >1,000, Deduct	-156.09	
26 56 19 00-0040	EA	9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	936.54	177.50
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Field Adjustable Output, Add	27.79	
		For Backlight Control Shield, Add	48.86	
		For Field Adjustable Output And Utility Label, Add	37.05	
		For Fuse, Add	55.57	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
		For Bird Spikes, Add	83.89	
		For 480 Volt, Add	83.36	
		For Multi-Level, Add	120.40	
		For >50 To 100, Deduct	-46.83	
		For >100 To 250, Deduct	-70.24	
		For >250 To 500, Deduct	-108.19	
		For >500 To 1,000, Deduct	-146.14	
		For >1,000, Deduct	-184.10	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 56 19 00-0041	EA 10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B)	936.54		177.50
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
	For Field Adjustable Output, Add	27.79		
	For Backlight Control Shield, Add	48.86		
	For Field Adjustable Output And Utility Label, Add	37.05		
	For Fuse, Add	55.57		
	For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57		
	For Bird Spikes, Add	83.89		
	For 480 Volt, Add	83.36		
	For Multi-Level, Add	120.40		
	For >50 To 100, Deduct	-46.83		
	For >100 To 250, Deduct	-70.24		
	For >250 To 500, Deduct	-108.19		
	For >500 To 1,000, Deduct	-146.14		
	For >1,000, Deduct	-184.10		
26 56 19 00-0042	EA 13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F)	1,053.25		177.50
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
	For Field Adjustable Output, Add	27.79		
	For Backlight Control Shield, Add	48.86		
	For Field Adjustable Output And Utility Label, Add	37.05		
	For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57		
	For Bird Spikes, Add	83.89		
	For 480 Volt, Add	83.36		
	For >50 To 100, Deduct	-52.66		
	For >100 To 250, Deduct	-78.99		
	For >250 To 500, Deduct	-122.78		
	For >500 To 1,000, Deduct	-166.57		
	For >1,000, Deduct	-210.36		
26 56 19 00-0043	EA 14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F)	1,053.25		177.50
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
	For Field Adjustable Output, Add	27.79		
	For Backlight Control Shield, Add	48.86		
	For Field Adjustable Output And Utility Label, Add	37.05		
	For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57		
	For Bird Spikes, Add	83.89		
	For 480 Volt, Add	83.36		
	For >50 To 100, Deduct	-52.66		
	For >100 To 250, Deduct	-78.99		
	For >250 To 500, Deduct	-122.78		
	For >500 To 1,000, Deduct	-166.57		
	For >1,000, Deduct	-210.36		
26 56 19 00-0044	EA 2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G)	617.57		177.50
	For Utility Label, Add	9.26		
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
	For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	27.79		
	For 0 To 10 Volt Dimming, Add	55.57		
	For >50 To 100, Deduct	-30.88		
	For >100 To 250, Deduct	-46.32		
	For >250 To 500, Deduct	-68.32		
	For >500 To 1,000, Deduct	-90.32		
	For >1,000, Deduct	-112.33		
26 56 19 00-0045	EA 2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G)	617.57		177.50
	For Utility Label, Add	9.26		
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
	For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	27.79		
	For 0 To 10 Volt Dimming, Add	55.57		
	For >50 To 100, Deduct	-30.88		
	For >100 To 250, Deduct	-46.32		
	For >250 To 500, Deduct	-68.32		
	For >500 To 1,000, Deduct	-90.32		
	For >1,000, Deduct	-112.33		
26 56 19 00-0046	EA 3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C)	646.75		177.50
	For Utility Label, Add	9.26		
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52		
	For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	27.79		
	For 0 To 10 Volt Dimming, Add	55.57		
	For >50 To 100, Deduct	-32.34		
	For >100 To 250, Deduct	-48.51		
	For >250 To 500, Deduct	-71.97		
	For >500 To 1,000, Deduct	-95.43		
	For >1,000, Deduct	-118.89		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0047	EA	4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	646.75	177.50
		For Utility Label, Add	9.26	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	27.79	
		For 0 To 10 Volt Dimming, Add	55.57	
		For >50 To 100, Deduct	-32.34	
		For >100 To 250, Deduct	-48.51	
		For >250 To 500, Deduct	-71.97	
		For >500 To 1,000, Deduct	-95.43	
		For >1,000, Deduct	-118.89	
26 56 19 00-0048	EA	4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	656.47	177.50
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Field Adjustable Output, Add	27.79	
		For Field Adjustable Output And Utility Label, Add	37.05	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
		For 0 To 10 Volt Dimming, Add	55.57	
		For >50 To 100, Deduct	-32.82	
		For >100 To 250, Deduct	-49.24	
		For >250 To 500, Deduct	-73.18	
		For >500 To 1,000, Deduct	-97.13	
		For >1,000, Deduct	-121.08	
26 56 19 00-0049	EA	4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	656.47	177.50
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
		For Field Adjustable Output, Add	27.79	
		For Field Adjustable Output And Utility Label, Add	37.05	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	55.57	
		For 0 To 10 Volt Dimming, Add	55.57	
		For >50 To 100, Deduct	-32.82	
		For >100 To 250, Deduct	-49.24	
		For >250 To 500, Deduct	-73.18	
		For >500 To 1,000, Deduct	-97.13	
		For >1,000, Deduct	-121.08	
26 56 19 00-0050		Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™) (26 56 19 00-0014) Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0051	EA	3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N).....	637.03	177.50
		For Field Adjustable Output, Add	27.79	
		For Backlight Control Shield, Add	64.06	
		For Bird Spikes, Add	84.43	
		For >50 To 100, Deduct	-31.85	
		For >100 To 250, Deduct	-47.78	
		For >250 To 500, Deduct	-70.75	
		For >500 To 1,000, Deduct	-93.73	
		For >1,000, Deduct	-116.71	
26 56 19 00-0052	EA	3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....	637.03	177.50
		For Field Adjustable Output, Add	27.79	
		For Backlight Control Shield, Add	64.06	
		For Bird Spikes, Add	84.43	
		For >50 To 100, Deduct	-31.85	
		For >100 To 250, Deduct	-47.78	
		For >250 To 500, Deduct	-70.75	
		For >500 To 1,000, Deduct	-93.73	
		For >1,000, Deduct	-116.71	
26 56 19 00-0053	EA	5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....	656.47	177.50
		For Field Adjustable Output, Add	27.79	
		For Backlight Control Shield, Add	64.06	
		For Bird Spikes, Add	84.43	
		For >50 To 100, Deduct	-32.82	
		For >100 To 250, Deduct	-49.24	
		For >250 To 500, Deduct	-73.18	
		For >500 To 1,000, Deduct	-97.13	
		For >1,000, Deduct	-121.08	
26 56 19 00-0054	EA	5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	656.47	177.50
		For Field Adjustable Output, Add	27.79	
		For Backlight Control Shield, Add	64.06	
		For Bird Spikes, Add	84.43	
		For >50 To 100, Deduct	-32.82	
		For >100 To 250, Deduct	-49.24	
		For >250 To 500, Deduct	-73.18	
		For >500 To 1,000, Deduct	-97.13	
		For >1,000, Deduct	-121.08	
26 56 19 00-0055		LED Roadway Lighting (Cooper Lighting) (26 56 19 00-0001)		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0056 Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) (26 56 19 00-0055) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0057 EA 1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,096.41	177.50
For >50 To 100, Deduct	-54.82	
For >100 To 250, Deduct	-82.23	
For >250 To 500, Deduct	-128.18	
For >500 To 1,000, Deduct	-174.12	
For >1,000, Deduct	-220.07	
26 56 19 00-0058 EA 2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,486.90	197.22
For >50 To 100, Deduct	-74.35	
For >100 To 250, Deduct	-111.52	
For >250 To 500, Deduct	-176.00	
For >500 To 1,000, Deduct	-240.49	
For >1,000, Deduct	-304.97	
26 56 19 00-0059 EA 3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,594.62	226.81
For >50 To 100, Deduct	-79.73	
For >100 To 250, Deduct	-119.60	
For >250 To 500, Deduct	-187.99	
For >500 To 1,000, Deduct	-256.38	
For >1,000, Deduct	-324.77	
26 56 19 00-0060 EA 4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,374.34	246.53
For >50 To 100, Deduct	-118.72	
For >100 To 250, Deduct	-178.08	
For >250 To 500, Deduct	-284.47	
For >500 To 1,000, Deduct	-390.86	
For >1,000, Deduct	-497.25	
26 56 19 00-0061 EA 6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	3,114.87	280.66
For >50 To 100, Deduct	-155.74	
For >100 To 250, Deduct	-233.62	
For >250 To 500, Deduct	-375.33	
For >500 To 1,000, Deduct	-517.04	
For >1,000, Deduct	-658.75	
26 56 19 00-0062 LED Roadway Lighting (PlanLED) (26 56 19 00-0061)		
26 56 19 00-0063 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) (26 56 19 00-0062) Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0064 EA 8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W)	1,318.47	172.57
For >50 To 100, Deduct	-65.92	
For >100 To 250, Deduct	-98.89	
For >250 To 500, Deduct	-156.18	
For >500 To 1,000, Deduct	-213.48	
For >1,000, Deduct	-270.77	
26 56 19 00-0065 EA 11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W)	1,434.39	174.46
For >50 To 100, Deduct	-71.72	
For >100 To 250, Deduct	-107.58	
For >250 To 500, Deduct	-170.58	
For >500 To 1,000, Deduct	-233.57	
For >1,000, Deduct	-296.57	
26 56 19 00-0066 EA 15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W)	1,525.69	177.50
For >50 To 100, Deduct	-76.28	
For >100 To 250, Deduct	-114.43	
For >250 To 500, Deduct	-181.84	
For >500 To 1,000, Deduct	-249.25	
For >1,000, Deduct	-316.66	
26 56 19 00-0067 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0062) Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0068 EA 7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060)	868.32	168.39
For >50 To 100, Deduct	-43.42	
For >100 To 250, Deduct	-65.12	
For >250 To 500, Deduct	-100.12	
For >500 To 1,000, Deduct	-135.12	
For >1,000, Deduct	-170.11	
26 56 19 00-0069 EA 10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080)	930.46	171.43
For >50 To 100, Deduct	-46.52	
For >100 To 250, Deduct	-69.78	
For >250 To 500, Deduct	-107.74	
For >500 To 1,000, Deduct	-145.69	
For >1,000, Deduct	-183.64	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0070	EA	12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100)	1,028.47	174.46
		For >50 To 100, Deduct	-51.42	
		For >100 To 250, Deduct	-77.14	
		For >250 To 500, Deduct	-119.84	
		For >500 To 1,000, Deduct	-162.54	
		For >1,000, Deduct	-205.24	
26 56 19 00-0071		Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0062)		
		Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0072	EA	13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100).....	1,093.50	174.46
		For 0 To 10 Volt Dimming, Add	96.89	
		For 347-480 Volt, Add	96.89	
		For >50 To 100, Deduct	-54.68	
		For >100 To 250, Deduct	-82.01	
		For >250 To 500, Deduct	-127.96	
		For >500 To 1,000, Deduct	-173.92	
		For >1,000, Deduct	-219.87	
26 56 19 00-0073	EA	16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130).....	1,213.16	175.99
		For 0 To 10 Volt Dimming, Add	96.89	
		For 347-480 Volt, Add	29.25	
		For >50 To 100, Deduct	-60.66	
		For >100 To 250, Deduct	-90.99	
		For >250 To 500, Deduct	-142.85	
		For >500 To 1,000, Deduct	-194.70	
		For >1,000, Deduct	-246.56	
26 56 19 00-0074	EA	19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150).....	1,305.90	177.50
		For 0 To 10 Volt Dimming, Add	96.89	
		For 347-480 Volt, Add	121.08	
		For >50 To 100, Deduct	-65.30	
		For >100 To 250, Deduct	-97.94	
		For >250 To 500, Deduct	-154.36	
		For >500 To 1,000, Deduct	-210.78	
		For >1,000, Deduct	-267.20	
26 56 19 00-0075		LED Roadway Lighting (General Electric) (26 56 19 00-0001)		
26 56 19 00-0076		Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) (26 56 19 00-0075)		
		Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0077	EA	2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY)	662.84	167.64
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-33.14	
		For >100 To 250, Deduct	-49.71	
		For >250 To 500, Deduct	-74.47	
		For >500 To 1,000, Deduct	-99.23	
		For >1,000, Deduct	-123.99	
26 56 19 00-0078	EA	3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY)	667.39	169.92
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-33.37	
		For >100 To 250, Deduct	-50.05	
		For >250 To 500, Deduct	-74.93	
		For >500 To 1,000, Deduct	-99.80	
		For >1,000, Deduct	-124.68	
26 56 19 00-0079	EA	4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY)	695.36	172.57
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-34.77	
		For >100 To 250, Deduct	-52.15	
		For >250 To 500, Deduct	-78.29	
		For >500 To 1,000, Deduct	-104.43	
		For >1,000, Deduct	-130.57	
26 56 19 00-0080	EA	5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY)	723.87	174.46
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-36.19	
		For >100 To 250, Deduct	-54.29	
		For >250 To 500, Deduct	-81.76	
		For >500 To 1,000, Deduct	-109.23	
		For >1,000, Deduct	-136.70	
26 56 19 00-0081	EA	7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY)	799.44	178.26
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For >50 To 100, Deduct	-39.97	
		For >100 To 250, Deduct	-59.96	
		For >250 To 500, Deduct	-91.02	
		For >500 To 1,000, Deduct	-122.08	
		For >1,000, Deduct	-153.14	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0082	EA		8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY).....	839.55	179.77
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-41.98	
			For >100 To 250, Deduct	-62.97	
			For >250 To 500, Deduct	-95.96	
			For >500 To 1,000, Deduct	-128.94	
			For >1,000, Deduct	-161.93	
26 56 19 00-0083	EA		9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY).....	914.92	182.43
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-45.75	
			For >100 To 250, Deduct	-68.62	
			For >250 To 500, Deduct	-105.24	
			For >500 To 1,000, Deduct	-141.87	
			For >1,000, Deduct	-178.49	
26 56 19 00-0084	EA		13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY).....	1,075.16	187.36
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-53.76	
			For >100 To 250, Deduct	-80.64	
			For >250 To 500, Deduct	-125.03	
			For >500 To 1,000, Deduct	-169.42	
			For >1,000, Deduct	-213.81	
26 56 19 00-0085	EA		19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY).....	1,259.69	197.22
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-62.98	
			For >100 To 250, Deduct	-94.48	
			For >250 To 500, Deduct	-147.60	
			For >500 To 1,000, Deduct	-200.72	
			For >1,000, Deduct	-253.85	

26 56 19 00-0086 Horizontal Tenon Mount, LED Cobra Head Street Lights With Wireless Control Node (General Electric) (26 56 19 00-0075)

Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Includes a General Electric LightGrid™ outdoor wireless control system node.

26 56 19 00-0087	EA		3,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light With Wireless Control Node (General Electric ERL105B140AGRAY DELWN0A5UG5).....	895.01	34.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
			For >50 To 100, Deduct	-44.75	
			For >100 To 250, Deduct	-67.13	
			For >250 To 500, Deduct	-108.08	
			For >500 To 1,000, Deduct	-149.04	
			For >1,000, Deduct	-190.00	
			For Up To 1,000, Add	74.33	
26 56 19 00-0088	EA		6,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light With Wireless Control Node (General Electric ERL1007B140AGRAY ELWN0A5UG5).....	933.46	34.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
			For >50 To 100, Deduct	-46.67	
			For >100 To 250, Deduct	-70.01	
			For >250 To 500, Deduct	-112.89	
			For >500 To 1,000, Deduct	-155.77	
			For >1,000, Deduct	-198.65	
			For Up To 1,000, Add	78.17	
26 56 19 00-0089	EA		11,600 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light With Wireless Control Node (General Electric ERS1011C1X40AGRAY ELWN0A5UG5).....	1,228.21	34.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
			For >50 To 100, Deduct	-61.41	
			For >100 To 250, Deduct	-92.12	
			For >250 To 500, Deduct	-149.73	
			For >500 To 1,000, Deduct	-207.35	
			For >1,000, Deduct	-264.97	
			For Up To 1,000, Add	107.65	
26 56 19 00-0090	EA		3,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light With Wireless Control Node (General Electric ERL1004B140ADKBZ ELWN0A5UG5 RPA-EAMT1DKBZ).....	1,061.61	34.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
			For >50 To 100, Deduct	-53.08	
			For >100 To 250, Deduct	-79.62	
			For >250 To 500, Deduct	-128.91	
			For >500 To 1,000, Deduct	-178.20	
			For >1,000, Deduct	-227.48	
			For Up To 1,000, Add	90.99	
26 56 19 00-0091	EA		11,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light With Wireless Control Node (General Electric ERS1011E1X40DKBZ ELWN0A5UG5 RPA-EAMT1DKBZ).....	1,433.26	34.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
			For >50 To 100, Deduct	-71.66	
			For >100 To 250, Deduct	-107.49	
			For >250 To 500, Deduct	-175.36	
			For >500 To 1,000, Deduct	-243.23	
			For >1,000, Deduct	-311.10	
			For Up To 1,000, Add	128.15	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0092 EA 16,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light With Wireless Control Node (General Electric ERS2016E1X40NDKBZ ELWN0A5UG5 RPA-EAMT1DKBZ).....	1,700.25	34.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
For >50 To 100, Deduct	-85.01	
For >100 To 250, Deduct	-127.52	
For >250 To 500, Deduct	-208.74	
For >500 To 1,000, Deduct	-289.96	
For >1,000, Deduct	-371.18	
For Up To 1,000, Add	154.85	
26 56 19 00-0093 LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0093)		
26 56 19 00-0094 Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0093)		
Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0095 EA 4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70).....	1,278.14	172.57
For >50 To 100, Deduct	-63.91	
For >100 To 250, Deduct	-95.86	
For >250 To 500, Deduct	-151.14	
For >500 To 1,000, Deduct	-206.42	
For >1,000, Deduct	-261.70	
26 56 19 00-0096 EA 6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70).....	1,587.20	177.50
For >50 To 100, Deduct	-79.36	
For >100 To 250, Deduct	-119.04	
For >250 To 500, Deduct	-189.53	
For >500 To 1,000, Deduct	-260.01	
For >1,000, Deduct	-330.50	
26 56 19 00-0097 EA 9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70).....	2,213.32	182.43
For >50 To 100, Deduct	-110.67	
For >100 To 250, Deduct	-166.00	
For >250 To 500, Deduct	-267.54	
For >500 To 1,000, Deduct	-369.09	
For >1,000, Deduct	-470.63	
26 56 19 00-0098 EA 13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	2,843.81	189.64
For >50 To 100, Deduct	-142.19	
For >100 To 250, Deduct	-213.29	
For >250 To 500, Deduct	-345.99	
For >500 To 1,000, Deduct	-478.70	
For >1,000, Deduct	-611.41	
26 56 19 00-0099 EA 17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	3,460.00	194.95
For >50 To 100, Deduct	-173.00	
For >100 To 250, Deduct	-259.50	
For >250 To 500, Deduct	-422.75	
For >500 To 1,000, Deduct	-586.01	
For >1,000, Deduct	-749.26	
26 56 19 00-0100 LED Roadway Lighting (Leotek) (26 56 19 00-0001)		
26 56 19 00-0101 Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0100)		
Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0102 EA Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	678.26	172.57
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	10.30	
For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
For >50 To 100, Deduct	-33.91	
For >100 To 250, Deduct	-50.87	
For >250 To 500, Deduct	-76.15	
For >500 To 1,000, Deduct	-101.44	
For >1,000, Deduct	-126.72	
26 56 19 00-0103 EA Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	692.86	174.46
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	10.30	
For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
For >50 To 100, Deduct	-34.64	
For >100 To 250, Deduct	-51.96	
For >250 To 500, Deduct	-77.88	
For >500 To 1,000, Deduct	-103.80	
For >1,000, Deduct	-129.72	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0104	EA		Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL)	738.41	175.61
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-36.92	
			For >100 To 250, Deduct	-55.38	
			For >250 To 500, Deduct	-83.52	
			For >500 To 1,000, Deduct	-111.66	
			For >1,000, Deduct	-139.80	
26 56 19 00-0105	EA		Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL)	855.89	182.43
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-42.79	
			For >100 To 250, Deduct	-64.19	
			For >250 To 500, Deduct	-97.86	
			For >500 To 1,000, Deduct	-131.54	
			For >1,000, Deduct	-165.21	
26 56 19 00-0106	EA		Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL)	999.87	187.36
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-49.99	
			For >100 To 250, Deduct	-74.99	
			For >250 To 500, Deduct	-115.62	
			For >500 To 1,000, Deduct	-156.24	
			For >1,000, Deduct	-196.87	
26 56 19 00-0107	EA		Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL)	1,005.94	190.39
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-50.30	
			For >100 To 250, Deduct	-75.45	
			For >250 To 500, Deduct	-116.22	
			For >500 To 1,000, Deduct	-157.00	
			For >1,000, Deduct	-197.78	
26 56 19 00-0108	EA		Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL)	1,230.47	193.43
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-61.52	
			For >100 To 250, Deduct	-92.29	
			For >250 To 500, Deduct	-144.14	
			For >500 To 1,000, Deduct	-195.99	
			For >1,000, Deduct	-247.84	
26 56 19 00-0109	EA		Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL)	1,289.98	197.22
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-64.50	
			For >100 To 250, Deduct	-96.75	
			For >250 To 500, Deduct	-151.39	
			For >500 To 1,000, Deduct	-206.02	
			For >1,000, Deduct	-260.66	
26 56 19 00-0110	EA		Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL)	1,438.80	200.26
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-71.94	
			For >100 To 250, Deduct	-107.91	
			For >250 To 500, Deduct	-169.84	
			For >500 To 1,000, Deduct	-231.76	
			For >1,000, Deduct	-293.69	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0111	EA		Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL).....	1,542.21	203.30
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-77.11	
			For >100 To 250, Deduct	-115.67	
			For >250 To 500, Deduct	-182.61	
			For >500 To 1,000, Deduct	-249.56	
			For >1,000, Deduct	-316.50	
26 56 19 00-0112	EA		Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL).....	783.71	174.46
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-39.19	
			For >100 To 250, Deduct	-58.78	
			For >250 To 500, Deduct	-89.24	
			For >500 To 1,000, Deduct	-119.70	
			For >1,000, Deduct	-150.17	
26 56 19 00-0113	EA		Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	859.88	179.02
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-42.99	
			For >100 To 250, Deduct	-64.49	
			For >250 To 500, Deduct	-98.53	
			For >500 To 1,000, Deduct	-132.58	
			For >1,000, Deduct	-166.62	
26 56 19 00-0114	EA		Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	927.28	182.43
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-46.36	
			For >100 To 250, Deduct	-69.55	
			For >250 To 500, Deduct	-106.79	
			For >500 To 1,000, Deduct	-144.03	
			For >1,000, Deduct	-181.27	
26 56 19 00-0115	EA		Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	985.36	186.61
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-49.27	
			For >100 To 250, Deduct	-73.90	
			For >250 To 500, Deduct	-113.84	
			For >500 To 1,000, Deduct	-153.78	
			For >1,000, Deduct	-193.72	
26 56 19 00-0116	EA		Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	1,044.64	188.12
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-52.23	
			For >100 To 250, Deduct	-78.35	
			For >250 To 500, Deduct	-121.17	
			For >500 To 1,000, Deduct	-164.00	
			For >1,000, Deduct	-206.83	
26 56 19 00-0117	EA		Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....	1,242.15	194.95
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-62.11	
			For >100 To 250, Deduct	-93.16	
			For >250 To 500, Deduct	-145.52	
			For >500 To 1,000, Deduct	-197.88	
			For >1,000, Deduct	-250.24	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0118	EA	Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL)	.....	1,403.32	198.74
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-70.17	
		For >100 To 250, Deduct		-105.25	
		For >250 To 500, Deduct		-165.48	
		For >500 To 1,000, Deduct		-225.71	
		For >1,000, Deduct		-285.94	
26 56 19 00-0119	EA	Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL)	.....	1,491.37	199.50
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-74.57	
		For >100 To 250, Deduct		-111.85	
		For >250 To 500, Deduct		-176.45	
		For >500 To 1,000, Deduct		-241.04	
		For >1,000, Deduct		-305.63	
26 56 19 00-0120	EA	Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL)	.....	1,575.95	201.77
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-78.80	
		For >100 To 250, Deduct		-118.20	
		For >250 To 500, Deduct		-186.91	
		For >500 To 1,000, Deduct		-255.61	
		For >1,000, Deduct		-324.32	
26 56 19 00-0121	EA	Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP)	.....	841.54	190.39
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-42.08	
		For >100 To 250, Deduct		-63.12	
		For >250 To 500, Deduct		-95.67	
		For >500 To 1,000, Deduct		-128.23	
		For >1,000, Deduct		-160.79	
26 56 19 00-0122	EA	Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP)	.....	910.21	192.30
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-45.51	
		For >100 To 250, Deduct		-68.27	
		For >250 To 500, Deduct		-104.16	
		For >500 To 1,000, Deduct		-140.06	
		For >1,000, Deduct		-175.95	
26 56 19 00-0123	EA	Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL)	.....	648.85	174.08
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-32.44	
		For >100 To 250, Deduct		-48.66	
		For >250 To 500, Deduct		-72.40	
		For >500 To 1,000, Deduct		-96.14	
		For >1,000, Deduct		-119.88	
26 56 19 00-0124	EA	Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL)	.....	660.53	175.61
		For LightGrid™ Wireless Outdoor Controller, Add		20.00	
		For Twist Lock Shorting Cap, Add		10.30	
		For ANSI 7-wire Photocontrol Receptacle, Add		30.90	
		For Ripley Long-Life Twist Lock Photocontrol, Add		55.29	
		For >50 To 100, Deduct		-33.03	
		For >100 To 250, Deduct		-49.54	
		For >250 To 500, Deduct		-73.79	
		For >500 To 1,000, Deduct		-98.03	
		For >1,000, Deduct		-122.28	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0125	EA		Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL).....	717.12	179.02
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-35.86	
			For >100 To 250, Deduct	-53.78	
			For >250 To 500, Deduct	-80.69	
			For >500 To 1,000, Deduct	-107.59	
			For >1,000, Deduct	-134.50	
26 56 19 00-0126	EA		Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL).....	1,098.52	193.43
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-54.93	
			For >100 To 250, Deduct	-82.39	
			For >250 To 500, Deduct	-127.64	
			For >500 To 1,000, Deduct	-172.90	
			For >1,000, Deduct	-218.15	
26 56 19 00-0127	EA		Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	1,430.80	199.50
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-71.54	
			For >100 To 250, Deduct	-107.31	
			For >250 To 500, Deduct	-168.88	
			For >500 To 1,000, Deduct	-230.44	
			For >1,000, Deduct	-292.01	
26 56 19 00-0128	EA		Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	1,276.57	200.26
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-63.83	
			For >100 To 250, Deduct	-95.74	
			For >250 To 500, Deduct	-149.56	
			For >500 To 1,000, Deduct	-203.37	
			For >1,000, Deduct	-257.19	
26 56 19 00-0129	EA		Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	623.64	174.46
			For Twist Lock Shorting Cap, Add	10.30	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.90	
			For Ripley Long-Life Twist Lock Photocontrol, Add	55.29	
			For >50 To 100, Deduct	-31.18	
			For >100 To 250, Deduct	-46.77	
			For >250 To 500, Deduct	-69.23	
			For >500 To 1,000, Deduct	-91.69	
			For >1,000, Deduct	-114.15	
26 56 19 00-0130			LED, Wall Packs (26 56 19)		
26 56 19 00-0131			Full Cutoff, LED Wall Packs (26 56 19 00-0130)		
26 56 19 00-0132			Full Cutoff, LED Wall Packs (Lithonia) (26 56 19 00-0131)		
26 56 19 00-0133	EA		30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	1,134.91	132.74
			For >50 To 100, Deduct	-56.75	
			For >100 To 250, Deduct	-85.12	
			For >250 To 500, Deduct	-135.23	
			For >500 To 1,000, Deduct	-185.33	
			For >1,000, Deduct	-235.44	
26 56 19 00-0134	EA		30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	1,229.28	132.74
			For >50 To 100, Deduct	-61.46	
			For >100 To 250, Deduct	-92.20	
			For >250 To 500, Deduct	-147.02	
			For >500 To 1,000, Deduct	-201.85	
			For >1,000, Deduct	-256.68	
26 56 19 00-0135			Full Cutoff, LED Wall Packs (CREE® BetaLED®) (26 56 19 00-0131)		
26 56 19 00-0136			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) (26 56 19 00-0135)		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.					



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0137	EA		20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) Note: Includes 350mA or 525mA driver. For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	928.93 18.52 47.91 55.57 55.57 83.36 120.40 -46.45 -69.67 -109.67 -149.67 -189.67	128.96
26 56 19 00-0138	EA		40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) Note: Includes 350mA or 525mA driver. For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,187.23 18.52 48.66 55.57 55.57 83.36 120.40 -59.36 -89.04 -141.58 -194.11 -246.65	136.54
26 56 19 00-0139	EA		60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) Note: Includes 350mA or 525mA driver. For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,327.98 18.52 49.42 55.57 55.57 83.36 120.40 -66.40 -99.60 -158.79 -217.98 -277.18	144.12
26 56 19 00-0140	EA		80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) Note: Includes 350mA or 525mA driver. For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,703.82 18.52 50.18 55.57 55.57 83.36 120.40 -85.19 -127.79 -205.39 -283.00 -360.60	151.72
26 56 19 00-0141	EA		100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,962.12 18.52 50.94 55.57 55.57 83.36 120.40 -98.11 -147.16 -237.30 -327.44 -417.58	159.30
26 56 19 00-0142	EA		120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	2,220.42 18.52 51.70 55.57 55.57 83.36 120.40 -111.02 -166.53 -269.21 -371.89 -474.56	166.88
26 56 19 00-0143			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) (26 56 19 00-0135) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0144 EA 25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) 567.90		128.96
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
For 0 To 10 Volt Dimming, Add	55.57	
For Multi-Level, Add	55.57	
For >50 To 100, Deduct	-28.40	
For >100 To 250, Deduct	-42.59	
For >250 To 500, Deduct	-64.54	
For >500 To 1,000, Deduct	-86.49	
For >1,000, Deduct	-108.43	
26 56 19 00-0145 EA 42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) 655.39		136.54
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
For 0 To 10 Volt Dimming, Add	55.57	
For Multi-Level, Add	55.57	
For >50 To 100, Deduct	-32.77	
For >100 To 250, Deduct	-49.15	
For >250 To 500, Deduct	-75.10	
For >500 To 1,000, Deduct	-101.04	
For >1,000, Deduct	-126.98	
26 56 19 00-0146 Full Cutoff, LED Wall Packs (General Electric Evolve™) (26 56 19 00-0131)		
26 56 19 00-0147 EA 29 Watt, Wall Mount, Full Cutoff, LED Wall Pack (General Electric EWS2 0 A7 D1 40 1 DKBZ) 924.31		128.96
For >50 To 100, Deduct	-46.22	
For >100 To 250, Deduct	-69.32	
For >250 To 500, Deduct	-109.09	
For >500 To 1,000, Deduct	-148.86	
For >1,000, Deduct	-188.63	
26 56 19 00-0148 Wall Mount, Full Cutoff, LED Wall Packs (Leotek® Eseta™) (26 56 19 00-0131)		
Note: UL wet listed. Includes 3,000K or 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0149 EA 59 Watt, Wall Mount, Full Cutoff, LED Wall Pack (Leotek® Eseta™ ES1-24H-MV-NW-X-GY-XXX).....902.54		136.54
For >50 To 100, Deduct	-45.13	
For >100 To 250, Deduct	-67.69	
For >250 To 500, Deduct	-105.99	
For >500 To 1,000, Deduct	-144.29	
For >1,000, Deduct	-182.59	
26 56 19 00-0150 EA 82 Watt, Wall Mount, Full Cutoff, LED Wall Pack (Leotek® Eseta™ ES1-48H-MV-NW-X-GY-XXX).....1,118.91		151.72
For >50 To 100, Deduct	-55.95	
For >100 To 250, Deduct	-83.92	
For >250 To 500, Deduct	-132.28	
For >500 To 1,000, Deduct	-180.64	
For >1,000, Deduct	-229.00	
26 56 19 00-0151 Full Cutoff, LED Wall Packs (McGraw-Edison) (26 56 19 00-0131)		
26 56 19 00-0152 EA One 7 LED Light Bar, 27 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....1,379.39		128.96
26 56 19 00-0153 EA Two 7 LED Light Bars, 54 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....1,712.97		136.54
26 56 19 00-0154 EA One 21 LED Light Bar, 27 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....1,395.78		128.96
26 56 19 00-0155 EA Two 21 LED Light Bars, 51 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....1,862.82		136.54
26 56 19 00-0156 Open Face LED Wall Pack (26 56 19 00-0130)		
Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass		
26 56 19 00-0157 EA 3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....774.82		135.48
For >50 To 100, Deduct	-38.74	
For >100 To 250, Deduct	-58.11	
For >250 To 500, Deduct	-86.69	
For >500 To 1,000, Deduct	-115.27	
For >1,000, Deduct	-143.85	
26 56 19 00-0158 EA 5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....793.92		135.48
For >50 To 100, Deduct	-39.70	
For >100 To 250, Deduct	-59.54	
For >250 To 500, Deduct	-89.08	
For >500 To 1,000, Deduct	-118.61	
For >1,000, Deduct	-148.15	
26 56 19 00-0159 EA 7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....834.99		135.48
For >50 To 100, Deduct	-41.75	
For >100 To 250, Deduct	-62.62	
For >250 To 500, Deduct	-94.21	
For >500 To 1,000, Deduct	-125.80	
For >1,000, Deduct	-157.39	
26 56 19 00-0160 EA 11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....870.33		135.48
For >50 To 100, Deduct	-43.52	
For >100 To 250, Deduct	-65.27	
For >250 To 500, Deduct	-98.63	
For >500 To 1,000, Deduct	-131.99	
For >1,000, Deduct	-165.34	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0161	EA		16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	933.09	135.48
			For >50 To 100, Deduct	-46.65	
			For >100 To 250, Deduct	-69.98	
			For >250 To 500, Deduct	-106.48	
			For >500 To 1,000, Deduct	-142.97	
			For >1,000, Deduct	-179.46	
26 56 19 00-0162 Wall Pack LED Fixtures (Jarvis WMFT) (26 56 19 00-0130)					
26 56 19 00-0163	EA		3,200 Lumens, 25 Watt, 1 LED, Wall Mounted Security Fixture (Jarvis Corp WMFT-100).....	354.02	99.04
			For >50 To 100, Deduct	-17.70	
			For >100 To 250, Deduct	-26.55	
			For >250 To 500, Deduct	-39.30	
			For >500 To 1,000, Deduct	-52.05	
			For >1,000, Deduct	-64.80	
26 56 19 00-0164	EA		6,451 Lumens, 52 Watt, 2 LEDs, Wall Mounted Security Fixture (Jarvis Corp WMFT-250).....	388.69	99.04
			For >50 To 100, Deduct	-19.43	
			For >100 To 250, Deduct	-29.15	
			For >250 To 500, Deduct	-43.63	
			For >500 To 1,000, Deduct	-58.12	
			For >1,000, Deduct	-72.60	
26 56 19 00-0165	EA		9,503 Lumens, 77 Watt, 3 LEDs, Wall Mounted Security Fixture (Jarvis Corp WMFT-350).....	440.70	99.04
			For >50 To 100, Deduct	-22.04	
			For >100 To 250, Deduct	-33.05	
			For >250 To 500, Deduct	-50.14	
			For >500 To 1,000, Deduct	-67.22	
			For >1,000, Deduct	-84.30	
26 56 19 00-0166	EA		5,235 Lumens, 54 Watt, 2 LEDs, Wall Mounted Security Fixture (Jarvis Corp WMFT-250-HV).....	414.69	99.04
			For >50 To 100, Deduct	-20.73	
			For >100 To 250, Deduct	-31.10	
			For >250 To 500, Deduct	-46.88	
			For >500 To 1,000, Deduct	-62.67	
			For >1,000, Deduct	-78.45	
26 56 19 00-0167 Wall Pack Accessories (26 56 19 00-0130)					
26 56 19 00-0168	EA		Photocell For Wall Pack.....	150.25	33.87
26 56 19 00-0169	EA		Wire Guard For Mini And Small Wall Pack	167.50	33.87
26 56 19 00-0170	EA		Wire Guard For Medium And Large Wall Pack	239.63	33.87
26 56 19 00-0171	EA		Clear Polycarbonate Vandal Guard For Wall Packs	343.72	33.87
26 56 19 00-0172	EA		Full Cutoff Visor For Wall Pack	162.80	33.87
26 56 19 00-0173 LED, Pole Mounted (26 56 19)					
26 56 19 00-0174 LED, Pole Mounted (Dialight) (26 56 19 00-0173)					
26 56 19 00-0175	EA		131 Watt, Enclosed And Gasketed, Exterior LED Roadway Fixture (Dialight SL2C4ELGH)	2,129.97	216.95
			For >50 To 100, Deduct	-106.50	
			For >100 To 250, Deduct	-159.75	
			For >250 To 500, Deduct	-255.40	
			For >500 To 1,000, Deduct	-351.05	
			For >1,000, Deduct	-446.70	
26 56 19 00-0176 LED, Pole Mounted (LED-Era) (26 56 19 00-0173)					
26 56 19 00-0177	EA		88 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS5).....	2,644.96	197.22
			For >50 To 100, Deduct	-132.25	
			For >100 To 250, Deduct	-198.37	
			For >250 To 500, Deduct	-320.76	
			For >500 To 1,000, Deduct	-443.15	
			For >1,000, Deduct	-565.53	
26 56 19 00-0178	EA		124 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS7).....	3,148.14	216.95
			For >50 To 100, Deduct	-157.41	
			For >100 To 250, Deduct	-236.11	
			For >250 To 500, Deduct	-382.67	
			For >500 To 1,000, Deduct	-529.23	
			For >1,000, Deduct	-675.79	
26 56 19 00-0179 LED, Pole Mounted (Lighting Science Group) (26 56 19 00-0173)					
26 56 19 00-0180	EA		50 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR1 CW R3 2B)	1,931.72	177.50
			For >50 To 100, Deduct	-96.59	
			For >100 To 250, Deduct	-144.88	
			For >250 To 500, Deduct	-232.59	
			For >500 To 1,000, Deduct	-320.30	
			For >1,000, Deduct	-408.01	
26 56 19 00-0181	EA		75 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR2 CW R3 2B)	1,971.17	197.22
			For >50 To 100, Deduct	-98.56	
			For >100 To 250, Deduct	-147.84	
			For >250 To 500, Deduct	-236.54	
			For >500 To 1,000, Deduct	-325.23	
			For >1,000, Deduct	-413.93	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0182	EA		100 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R2 2B).....	2,132.73	207.08
			For >50 To 100, Deduct	-106.64	
			For >100 To 250, Deduct	-159.95	
			For >250 To 500, Deduct	-256.24	
			For >500 To 1,000, Deduct	-352.52	
			For >1,000, Deduct	-448.80	
26 56 19 00-0183	EA		100 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R3 2B).....	2,132.73	207.08
			For >50 To 100, Deduct	-106.64	
			For >100 To 250, Deduct	-159.95	
			For >250 To 500, Deduct	-256.24	
			For >500 To 1,000, Deduct	-352.52	
			For >1,000, Deduct	-448.80	
26 56 19 00-0184	EA		150 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R2 2B).....	2,172.18	226.81
			For >50 To 100, Deduct	-108.61	
			For >100 To 250, Deduct	-162.91	
			For >250 To 500, Deduct	-260.18	
			For >500 To 1,000, Deduct	-357.45	
			For >1,000, Deduct	-454.72	
26 56 19 00-0185	EA		150 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R3 2B).....	2,172.18	226.81
			For >50 To 100, Deduct	-108.61	
			For >100 To 250, Deduct	-162.91	
			For >250 To 500, Deduct	-260.18	
			For >500 To 1,000, Deduct	-357.45	
			For >1,000, Deduct	-454.72	
26 56 19 00-0186	EA		86 Watt, Type V Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group SHB CW CLR).....	2,544.03	197.22
			For >50 To 100, Deduct	-127.20	
			For >100 To 250, Deduct	-190.80	
			For >250 To 500, Deduct	-308.14	
			For >500 To 1,000, Deduct	-425.48	
			For >1,000, Deduct	-542.82	
26 56 19 00-0187			LED, Area Fixtures (26 56 19)		
26 56 19 00-0188			Pole Mount, LED Area Fixtures (26 56 19 00-0187)		
26 56 19 00-0189			Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) (26 56 19 00-0188)		
			Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0190	EA		20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,517.21	128.96
			For >50 To 100, Deduct	-125.86	
			For >100 To 250, Deduct	-188.79	
			For >250 To 500, Deduct	-308.20	
			For >500 To 1,000, Deduct	-427.62	
			For >1,000, Deduct	-547.03	
26 56 19 00-0191	EA		40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,713.13	136.54
			For >50 To 100, Deduct	-135.66	
			For >100 To 250, Deduct	-203.48	
			For >250 To 500, Deduct	-332.31	
			For >500 To 1,000, Deduct	-461.14	
			For >1,000, Deduct	-589.97	
26 56 19 00-0192	EA		80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,924.21	151.72
			For >50 To 100, Deduct	-146.21	
			For >100 To 250, Deduct	-219.32	
			For >250 To 500, Deduct	-357.94	
			For >500 To 1,000, Deduct	-496.57	
			For >1,000, Deduct	-635.19	
26 56 19 00-0193	EA		100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,939.38	159.30
			For >50 To 100, Deduct	-146.97	
			For >100 To 250, Deduct	-220.45	
			For >250 To 500, Deduct	-359.46	
			For >500 To 1,000, Deduct	-498.46	
			For >1,000, Deduct	-637.47	
26 56 19 00-0194			Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) (26 56 19 00-0188)		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 19 00-0195	EA		40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,234.28	136.54
			For Backlight Shielding, Add	21.99	
			For Type II Medium Optic, Add	40.05	
			For 347-480 Volt, Add	113.84	
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-61.71	
			For >100 To 250, Deduct	-92.57	
			For >250 To 500, Deduct	-147.46	
			For >500 To 1,000, Deduct	-202.35	
			For >1,000, Deduct	-257.23	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0196	EA		60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,480.33	144.12
			For Backlight Shielding, Add	21.99	
			For Type II Medium Optic, Add	40.81	
			For 347-480 Volt, Add	113.84	
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-74.02	
			For >100 To 250, Deduct	-111.02	
			For >250 To 500, Deduct	-177.84	
			For >500 To 1,000, Deduct	-244.65	
			For >1,000, Deduct	-311.46	
26 56 19 00-0197	EA		80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,819.04	151.72
			For Backlight Shielding, Add	21.99	
			For Type II Medium Optic, Add	41.57	
			For 347-480 Volt, Add	113.84	
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-90.95	
			For >100 To 250, Deduct	-136.43	
			For >250 To 500, Deduct	-219.79	
			For >500 To 1,000, Deduct	-303.16	
			For >1,000, Deduct	-386.53	
26 56 19 00-0198	EA		100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,065.09	159.30
			For Backlight Shielding, Add	21.99	
			For Type II Medium Optic, Add	42.33	
			For 347-480 Volt, Add	113.84	
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-103.25	
			For >100 To 250, Deduct	-154.88	
			For >250 To 500, Deduct	-250.17	
			For >500 To 1,000, Deduct	-345.46	
			For >1,000, Deduct	-440.75	
26 56 19 00-0199	EA		120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,311.13	166.88
			For Backlight Shielding, Add	21.99	
			For Type II Medium Optic, Add	43.09	
			For 347-480 Volt, Add	113.84	
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-115.56	
			For >100 To 250, Deduct	-173.33	
			For >250 To 500, Deduct	-280.55	
			For >500 To 1,000, Deduct	-387.76	
			For >1,000, Deduct	-494.97	
26 56 19 00-0200	EA		140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,631.00	174.46
			For Backlight Shielding, Add	21.99	
			For Type II Medium Optic, Add	43.85	
			For 347-480 Volt, Add	113.84	
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-131.55	
			For >100 To 250, Deduct	-197.33	
			For >250 To 500, Deduct	-320.15	
			For >500 To 1,000, Deduct	-442.98	
			For >1,000, Deduct	-565.81	
26 56 19 00-0201	EA		160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,877.05	182.05
			For Backlight Shielding, Add	21.99	
			For Type II Medium Optic, Add	44.61	
			For 347-480 Volt, Add	113.84	
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-143.85	
			For >100 To 250, Deduct	-215.78	
			For >250 To 500, Deduct	-350.53	
			For >500 To 1,000, Deduct	-485.28	
			For >1,000, Deduct	-620.03	
26 56 19 00-0202			Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO) (26 56 19 00-0188)		
			Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0203	EA		120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	2,140.66	166.88
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For Bird Spikes, Add	45.87	
			For 5,000K Color Temperature, Add	46.31	
			For Fuse, Add	55.57	
			For 0 To 10 Volt Dimming, Add	55.57	
			For 480 Volt, Add	83.36	
			For Multi-Level, Add	120.40	
			For 1,000mA Driver, Add	155.61	
			For >50 To 100, Deduct	-107.03	
			For >100 To 250, Deduct	-160.55	
			For >250 To 500, Deduct	-259.24	
			For >500 To 1,000, Deduct	-357.93	
			For >1,000, Deduct	-456.62	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0204	EA		240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	3,578.03	204.81
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.52	
			For 5,000K Color Temperature, Add	46.31	
			For Fuse, Add	55.57	
			For 0 To 10 Volt Dimming, Add	55.57	
			For Bird Spikes, Add	67.17	
			For Multi-Level, Add	120.40	
			For 1,000mA Driver, Add	155.60	
			For 480 Volt, Add	166.71	
			For >50 To 100, Deduct	-178.90	
			For >100 To 250, Deduct	-268.35	
			For >250 To 500, Deduct	-437.01	
			For >500 To 1,000, Deduct	-605.67	
			For >1,000, Deduct	-774.34	
26 56 19 00-0205			Arm Mount, Rectangular, LED Area Fixtures (General Electric Evolve™) (26 56 19 00-0188)		
			Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, 525mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0206	EA		3,730 Lumens, 46 Watt, Arm Mount, Rectangular, LED Area Fixture (General Electric EANA 0 A4 5 40 A A DKBZ).....	1,474.52	136.54
			For >50 To 100, Deduct	-73.73	
			For >100 To 250, Deduct	-110.59	
			For >250 To 500, Deduct	-177.49	
			For >500 To 1,000, Deduct	-244.39	
			For >1,000, Deduct	-311.29	
26 56 19 00-0207	EA		5,510 Lumens, 65 Watt, Arm Mount, Rectangular, LED Area Fixture (General Electric EANA 0 B4 5 40 A A DKBZ).....	1,569.79	144.12
			For >50 To 100, Deduct	-78.49	
			For >100 To 250, Deduct	-117.73	
			For >250 To 500, Deduct	-189.02	
			For >500 To 1,000, Deduct	-260.30	
			For >1,000, Deduct	-331.58	
26 56 19 00-0208	EA		7,180 Lumens, 85 Watt, Arm Mount, Rectangular, LED Area Fixture (General Electric EANA 0 C4 5 40 A A DKBZ).....	1,638.36	151.72
			For >50 To 100, Deduct	-81.92	
			For >100 To 250, Deduct	-122.88	
			For >250 To 500, Deduct	-197.21	
			For >500 To 1,000, Deduct	-271.54	
			For >1,000, Deduct	-345.87	
26 56 19 00-0209	EA		8,810 Lumens, 104 Watt, Arm Mount, Rectangular, LED Area Fixture (General Electric EANA 0 D4 5 40 A A DKBZ).....	1,706.93	159.30
			For >50 To 100, Deduct	-85.35	
			For >100 To 250, Deduct	-128.02	
			For >250 To 500, Deduct	-205.40	
			For >500 To 1,000, Deduct	-282.78	
			For >1,000, Deduct	-360.17	
26 56 19 00-0210	EA		15,400 Lumens, 144 Watt, Arm Mount, Rectangular, LED Area Fixture (General Electric EASC 0 F4 F 5 40 A A DKBZ).....	2,322.82	166.88
			For >50 To 100, Deduct	-116.14	
			For >100 To 250, Deduct	-174.21	
			For >250 To 500, Deduct	-282.01	
			For >500 To 1,000, Deduct	-389.81	
			For >1,000, Deduct	-497.60	
26 56 19 00-0211			Pole Mount, Rectangular, LED Area Fixtures With Wireless Control Node (General Electric) (26 56 19 00-0188)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and bronze powder coat finish. Includes a General Electric LightGrid™ outdoor wireless control node.		
26 56 19 00-0212	EA		33,000 Lumens, 283 Watt, Pole Mount, Rectangular, LED Area Fixture With Wireless Control Node (General Electric EASC-0-K3-F5-40-AA-DKBZ ELWN0A5UG5).....	2,954.02	34.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
			For >50 To 100, Deduct	-147.70	
			For >100 To 250, Deduct	-221.55	
			For >250 To 500, Deduct	-365.46	
			For >500 To 1,000, Deduct	-509.37	
			For >1,000, Deduct	-653.28	
			For Up To 1,000, Add	280.23	
26 56 19 00-0213			Arm Mount, Round, LED Security Area Fixtures (Everlast EL-LED-NW) (26 56 19 00-0188)		
			Note: UL wet listed. Includes 2,700K, 4,000K or 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly. Excludes sensors.		
26 56 19 00-0214	EA		3,675 Lumens, 35 Watt, Arm Mount, Round, LED Security Area Fixture (Everlast EL-LED-NW).....	587.06	136.54
			For >50 To 100, Deduct	-29.35	
			For >100 To 250, Deduct	-44.03	
			For >250 To 500, Deduct	-66.56	
			For >500 To 1,000, Deduct	-89.08	
			For >1,000, Deduct	-111.61	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0215	EA	4,480 Lumens, 40 Watt, Arm Mount, Round, LED Security Area Fixture (Everlast EL-LED-NW)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	593.79 -29.69 -44.53 -67.40 -90.26 -113.12	136.54
26 56 19 00-0216	EA	5,040 Lumens, 45 Watt, Arm Mount, Round, LED Security Area Fixture (Everlast EL-LED-NW)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	598.27 -29.91 -44.67 -67.96 -91.04 -114.13	136.54
26 56 19 00-0217	EA	5,050 Lumens, 50 Watt, Arm Mount, Round, LED Security Area Fixture (Everlast EL-LED-NW)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	609.48 -30.47 -45.71 -69.36 -93.01 -116.65	136.54
26 56 19 00-0218	EA	6,565 Lumens, 65 Watt, Arm Mount, Round, LED Security Area Fixture (Everlast EL-LED-NW)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	687.98 -34.40 -51.60 -79.17 -106.74 -134.31	136.54
26 56 19 00-0219		Arm Mount, Round, LED Area Fixtures (Everlast EL-LED-MS) (26 56 19 00-0188) Note: UL wet listed. Includes 2,700K, 4,000K or 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly. Excludes sensors.		
26 56 19 00-0220	EA	6,300 Lumens, 60 Watt, Arm Mount, Round, LED Area Fixture (Everlast EL-LED-MS)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,106.30 -55.32 -82.97 -130.70 -178.43 -226.16	151.72
26 56 19 00-0221	EA	9,500 Lumens, 100 Watt, Arm Mount, Round, LED Area Fixture (Everlast EL-LED-MS)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,211.71 -60.59 -90.88 -143.88 -196.88 -249.88	151.72
26 56 19 00-0222	EA	12,450 Lumens, 150 Watt, Arm Mount, Round, LED Area Fixture (Everlast EL-LED-MS)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,368.70 -68.44 -102.65 -163.50 -224.35 -285.20	151.72
26 56 19 00-0223		Arm Mount, Rectangular, LED Area Fixtures (Everlast EL-LED-VS) (26 56 19 00-0188) Note: UL wet listed. Includes 3,000K, 4,000K or 5,700K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly. Excludes sensors.		
26 56 19 00-0224	EA	14,000 Lumens, 140 Watt, Arm Mount, Rectangular, LED Area Fixture (Everlast EL-LED-VS)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,099.58 -54.98 -82.47 -129.86 -177.26 -224.65	151.72
26 56 19 00-0225	EA	21,000 Lumens, 210 Watt, Arm Mount, Rectangular, LED Area Fixture (Everlast EL-LED-VS)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,166.86 -58.34 -87.51 -138.27 -189.03 -239.79	151.72
26 56 19 00-0226	EA	28,000 Lumens, 280 Watt, Arm Mount, Rectangular, LED Area Fixture (Everlast EL-LED-VS)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,379.91 -69.00 -103.49 -164.90 -226.31 -287.72	151.72
26 56 19 00-0227	EA	42,000 Lumens, 420 Watt, Arm Mount, Rectangular, LED Area Fixture (Everlast EL-LED-VS)..... For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	1,749.96 -87.50 -131.25 -211.16 -291.07 -370.98	151.72
26 56 19 00-0228		Wall Mount, LED Area Fixtures (26 56 19 00-0187)		
26 56 19 00-0229		Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) (26 56 19 00-0228) Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0230	EA		20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	1,127.29	128.96
			For >50 To 100, Deduct	-56.36	
			For >100 To 250, Deduct	-84.55	
			For >250 To 500, Deduct	-134.46	
			For >500 To 1,000, Deduct	-184.38	
			For >1,000, Deduct	-234.30	
26 56 19 00-0231	EA		30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	1,157.63	144.12
			For >50 To 100, Deduct	-57.88	
			For >100 To 250, Deduct	-86.82	
			For >250 To 500, Deduct	-137.50	
			For >500 To 1,000, Deduct	-188.17	
			For >1,000, Deduct	-238.85	
26 56 19 00-0232			Surface Mount, LED Parking Structure Fixtures (26 56 19 00-0187)		
26 56 19 00-0233			Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) (26 56 19 00-0232)		
			Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0234	EA		40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,096.07	136.54
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-54.80	
			For >100 To 250, Deduct	-82.21	
			For >250 To 500, Deduct	-130.18	
			For >500 To 1,000, Deduct	-178.16	
			For >1,000, Deduct	-226.13	
26 56 19 00-0235	EA		60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,342.12	144.12
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-67.11	
			For >100 To 250, Deduct	-100.66	
			For >250 To 500, Deduct	-160.56	
			For >500 To 1,000, Deduct	-220.46	
			For >1,000, Deduct	-280.36	
26 56 19 00-0236	EA		80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,588.16	151.72
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-79.41	
			For >100 To 250, Deduct	-119.11	
			For >250 To 500, Deduct	-190.93	
			For >500 To 1,000, Deduct	-262.76	
			For >1,000, Deduct	-334.58	
26 56 19 00-0237	EA		100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,834.21	159.30
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-91.71	
			For >100 To 250, Deduct	-137.57	
			For >250 To 500, Deduct	-221.31	
			For >500 To 1,000, Deduct	-305.06	
			For >1,000, Deduct	-388.80	
26 56 19 00-0238			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) (26 56 19 00-0232)		
			Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0239	EA		40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,058.38	136.54
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-52.92	
			For >100 To 250, Deduct	-79.38	
			For >250 To 500, Deduct	-125.47	
			For >500 To 1,000, Deduct	-171.56	
			For >1,000, Deduct	-217.65	
26 56 19 00-0240	EA		60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,166.21	144.12
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-58.31	
			For >100 To 250, Deduct	-87.47	
			For >250 To 500, Deduct	-138.57	
			For >500 To 1,000, Deduct	-189.67	
			For >1,000, Deduct	-240.78	
26 56 19 00-0241			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) (26 56 19 00-0232)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0242	EA		3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	1,073.72	136.54
			For >50 To 100, Deduct	-53.69	
			For >100 To 250, Deduct	-80.53	
			For >250 To 500, Deduct	-127.39	
			For >500 To 1,000, Deduct	-174.25	
			For >1,000, Deduct	-221.11	
26 56 19 00-0243			Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) (26 56 19 00-0232)		
			Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		
26 56 19 00-0244	EA		70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,124.49	144.12
			For >50 To 100, Deduct	-106.22	
			For >100 To 250, Deduct	-159.34	
			For >250 To 500, Deduct	-258.36	
			For >500 To 1,000, Deduct	-357.37	
			For >1,000, Deduct	-456.39	
26 56 19 00-0245	EA		110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,154.83	159.30
			For >50 To 100, Deduct	-107.74	
			For >100 To 250, Deduct	-161.61	
			For >250 To 500, Deduct	-261.39	
			For >500 To 1,000, Deduct	-361.17	
			For >1,000, Deduct	-460.94	
26 56 19 00-0246			Surface Mount, Rectangular, LED Parking Structure Fixtures (Everlast EL-LED-SS) (26 56 19 00-0232)		
			Note: Direct or pendant mount. UL wet listed. Includes 2,700, 4,000K or 5,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		
26 56 19 00-0247	EA		3,600 Lumens, 36 Watt, Surface Mount, Round, LED Parking Structure Fixture (Everlast EL-LED-SS).....	811.33	136.54
			For >50 To 100, Deduct	-40.57	
			For >100 To 250, Deduct	-60.85	
			For >250 To 500, Deduct	-94.59	
			For >500 To 1,000, Deduct	-128.33	
			For >1,000, Deduct	-162.07	
26 56 19 00-0248	EA		5,000 Lumens, 50 Watt, Surface Mount, Round, LED Parking Structure Fixture (Everlast EL-LED-SS).....	892.06	136.54
			For >50 To 100, Deduct	-44.60	
			For >100 To 250, Deduct	-66.90	
			For >250 To 500, Deduct	-104.68	
			For >500 To 1,000, Deduct	-142.46	
			For >1,000, Deduct	-180.23	
26 56 19 00-0249	EA		7,500 Lumens, 75 Watt, Surface Mount, Round, LED Parking Structure Fixture (Everlast EL-LED-SS).....	945.89	136.54
			For >50 To 100, Deduct	-47.29	
			For >100 To 250, Deduct	-70.94	
			For >250 To 500, Deduct	-111.41	
			For >500 To 1,000, Deduct	-151.88	
			For >1,000, Deduct	-192.34	
26 56 19 00-0250			Surface Mount, LED Canopy Fixtures (26 56 19 00-0187)		
26 56 19 00-0251			Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) (26 56 19 00-0250)		
			Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0252	EA		40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	1,262.55	136.54
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-63.13	
			For >100 To 250, Deduct	-94.69	
			For >250 To 500, Deduct	-150.99	
			For >500 To 1,000, Deduct	-207.29	
			For >1,000, Deduct	-263.59	
26 56 19 00-0253	EA		60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	1,508.60	144.12
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-75.43	
			For >100 To 250, Deduct	-113.15	
			For >250 To 500, Deduct	-181.37	
			For >500 To 1,000, Deduct	-249.59	
			For >1,000, Deduct	-317.82	
26 56 19 00-0254	EA		80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	1,754.65	151.72
			For Multi-Level Drive Currents, Add	219.88	
			For >50 To 100, Deduct	-87.73	
			For >100 To 250, Deduct	-131.60	
			For >250 To 500, Deduct	-211.75	
			For >500 To 1,000, Deduct	-291.89	
			For >1,000, Deduct	-372.04	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0255 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,000.69	159.30
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-100.03	
For >100 To 250, Deduct	-150.05	
For >250 To 500, Deduct	-242.12	
For >500 To 1,000, Deduct	-334.19	
For >1,000, Deduct	-426.26	
26 56 19 00-0256 EA 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,246.74	166.88
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-112.34	
For >100 To 250, Deduct	-168.51	
For >250 To 500, Deduct	-272.50	
For >500 To 1,000, Deduct	-376.49	
For >1,000, Deduct	-480.48	
26 56 19 00-0257 EA 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,585.45	174.46
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-129.27	
For >100 To 250, Deduct	-193.91	
For >250 To 500, Deduct	-314.46	
For >500 To 1,000, Deduct	-435.01	
For >1,000, Deduct	-555.56	
26 56 19 00-0258 EA 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,831.51	182.05
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-141.58	
For >100 To 250, Deduct	-212.36	
For >250 To 500, Deduct	-344.84	
For >500 To 1,000, Deduct	-477.31	
For >1,000, Deduct	-609.78	
26 56 19 00-0259 EA 200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,323.60	197.22
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-166.18	
For >100 To 250, Deduct	-249.27	
For >250 To 500, Deduct	-405.59	
For >500 To 1,000, Deduct	-561.91	
For >1,000, Deduct	-718.23	
26 56 19 00-0260 EA 240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,800.52	204.81
For Multi-Level Drive Currents, Add	219.88	
For >50 To 100, Deduct	-190.03	
For >100 To 250, Deduct	-285.04	
For >250 To 500, Deduct	-464.82	
For >500 To 1,000, Deduct	-644.61	
For >1,000, Deduct	-824.40	
26 56 19 00-0261 Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) (26 56 19 00-0250)		
Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0262 EA 8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250)	895.53	151.72
For >50 To 100, Deduct	-44.78	
For >100 To 250, Deduct	-67.16	
For >250 To 500, Deduct	-104.36	
For >500 To 1,000, Deduct	-141.55	
For >1,000, Deduct	-178.74	
26 56 19 00-0263 Surface Mount, Square, LED Canopy Fixtures (General Electric Evolve™) (26 56 19 00-0250)		
Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0264 EA 35 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (General Electric ECBB 0 A5 5 40 2 A DKBZ)	1,063.36	136.54
For >50 To 100, Deduct	-53.17	
For >100 To 250, Deduct	-79.75	
For >250 To 500, Deduct	-126.09	
For >500 To 1,000, Deduct	-172.43	
For >1,000, Deduct	-218.78	
26 56 19 00-0265 EA 64 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (General Electric ECBB 0 B5 5 40 2 A DKBZ)	1,155.43	144.12
For >50 To 100, Deduct	-57.77	
For >100 To 250, Deduct	-86.66	
For >250 To 500, Deduct	-137.22	
For >500 To 1,000, Deduct	-187.79	
For >1,000, Deduct	-238.35	
26 56 19 00-0266 Recessed Mount, LED Soffit Fixtures (26 56 19 00-0187)		
26 56 19 00-0267 Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) (26 56 19 00-0266)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0268	EA		40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304)	1,077.22	136.54
			For >50 To 100, Deduct	-53.86	
			For >100 To 250, Deduct	-80.79	
			For >250 To 500, Deduct	-127.83	
			For >500 To 1,000, Deduct	-174.86	
			For >1,000, Deduct	-221.89	
26 56 19 00-0269	EA		60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304)	1,185.06	144.12
			For >50 To 100, Deduct	-59.25	
			For >100 To 250, Deduct	-88.88	
			For >250 To 500, Deduct	-140.93	
			For >500 To 1,000, Deduct	-192.97	
			For >1,000, Deduct	-245.02	
26 56 19 00-0270			Surface Mount, LED Area Fixtures (26 56 19 00-0187)		
26 56 19 00-0271			Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) (26 56 19 00-0270)		
			Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0272	EA		50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	756.41	136.54
			For >50 To 100, Deduct	-37.82	
			For >100 To 250, Deduct	-56.73	
			For >250 To 500, Deduct	-87.72	
			For >500 To 1,000, Deduct	-118.72	
			For >1,000, Deduct	-149.71	
26 56 19 00-0273	EA		50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,550.56	136.54
			For >50 To 100, Deduct	-77.53	
			For >100 To 250, Deduct	-116.29	
			For >250 To 500, Deduct	-186.99	
			For >500 To 1,000, Deduct	-257.69	
			For >1,000, Deduct	-328.40	
26 56 19 00-0274	EA		68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,291.92	151.72
			For >50 To 100, Deduct	-64.60	
			For >100 To 250, Deduct	-96.89	
			For >250 To 500, Deduct	-153.90	
			For >500 To 1,000, Deduct	-210.92	
			For >1,000, Deduct	-267.93	
26 56 19 00-0275	EA		68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,596.95	151.72
			For >50 To 100, Deduct	-79.85	
			For >100 To 250, Deduct	-119.77	
			For >250 To 500, Deduct	-192.03	
			For >500 To 1,000, Deduct	-264.30	
			For >1,000, Deduct	-336.56	
26 56 19 00-0276			Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) (26 56 19 00-0270)		
			Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0277	EA		13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A)	244.32	48.77
			For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
			For >50 To 100, Deduct	-12.22	
			For >100 To 250, Deduct	-18.32	
			For >250 To 500, Deduct	-28.51	
			For >500 To 1,000, Deduct	-38.69	
			For >1,000, Deduct	-48.88	
26 56 19 00-0278	EA		20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A)	278.90	48.77
			For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
			For >50 To 100, Deduct	-13.95	
			For >100 To 250, Deduct	-20.92	
			For >250 To 500, Deduct	-32.83	
			For >500 To 1,000, Deduct	-44.74	
			For >1,000, Deduct	-56.66	
26 56 19 00-0279	EA		30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A)	344.77	48.77
			For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
			For >50 To 100, Deduct	-17.24	
			For >100 To 250, Deduct	-25.86	
			For >250 To 500, Deduct	-41.06	
			For >500 To 1,000, Deduct	-56.27	
			For >1,000, Deduct	-71.48	
26 56 19 00-0280			Surface Mount, LED Facade Fixtures (26 56 19 00-0187)		
26 56 19 00-0281			Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) (26 56 19 00-0280)		
26 56 19 00-0282	EA		12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™)	806.57	56.94
			For >50 To 100, Deduct	-40.33	
			For >100 To 250, Deduct	-60.49	
			For >250 To 500, Deduct	-98.65	
			For >500 To 1,000, Deduct	-136.82	
			For >1,000, Deduct	-174.98	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0283	EA	24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,313.40	52.00
		For >50 To 100, Deduct	-65.67	
		For >100 To 250, Deduct	-98.51	
		For >250 To 500, Deduct	-162.32	
		For >500 To 1,000, Deduct	-226.13	
		For >1,000, Deduct	-289.94	
26 56 19 00-0284	EA	36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,676.92	43.33
		For >50 To 100, Deduct	-83.85	
		For >100 To 250, Deduct	-125.77	
		For >250 To 500, Deduct	-208.07	
		For >500 To 1,000, Deduct	-290.37	
		For >1,000, Deduct	-372.66	
26 56 19 00-0285	EA	48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	2,040.42	34.67
		For >50 To 100, Deduct	-102.02	
		For >100 To 250, Deduct	-153.03	
		For >250 To 500, Deduct	-253.81	
		For >500 To 1,000, Deduct	-354.60	
		For >1,000, Deduct	-455.38	
26 56 19 00-0286		Post Top, LED Area Fixtures (26 56 19 00-0187)		
26 56 19 00-0287		Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) (26 56 19 00-0286) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0288	EA	1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	2,264.75	208.60
		For >50 To 100, Deduct	-113.24	
		For >100 To 250, Deduct	-169.86	
		For >250 To 500, Deduct	-272.66	
		For >500 To 1,000, Deduct	-375.47	
		For >1,000, Deduct	-478.28	
26 56 19 00-0289	EA	3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	2,500.48	208.60
		For >50 To 100, Deduct	-125.02	
		For >100 To 250, Deduct	-187.54	
		For >250 To 500, Deduct	-302.13	
		For >500 To 1,000, Deduct	-416.72	
		For >1,000, Deduct	-531.32	
26 56 19 00-0290	EA	77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3).....	2,686.82	208.60
		For >50 To 100, Deduct	-134.34	
		For >100 To 250, Deduct	-201.51	
		For >250 To 500, Deduct	-325.42	
		For >500 To 1,000, Deduct	-449.33	
		For >1,000, Deduct	-573.24	
26 56 19 00-0291		Post Top, LED Area Fixtures (General Electric EPAS) (26 56 19 00-0286) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0292	EA	3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3).....	2,668.99	208.60
		For >50 To 100, Deduct	-133.45	
		For >100 To 250, Deduct	-200.17	
		For >250 To 500, Deduct	-323.19	
		For >500 To 1,000, Deduct	-446.21	
		For >1,000, Deduct	-569.23	
26 56 19 00-0293	EA	6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	2,729.56	208.60
		For >50 To 100, Deduct	-136.48	
		For >100 To 250, Deduct	-204.72	
		For >250 To 500, Deduct	-330.77	
		For >500 To 1,000, Deduct	-456.81	
		For >1,000, Deduct	-582.86	
26 56 19 00-0294		Post Top, LED Area Fixtures (General Electric EPTC) (26 56 19 00-0286) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0295	EA	3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3).....	1,848.97	208.60
		For >50 To 100, Deduct	-92.45	
		For >100 To 250, Deduct	-138.67	
		For >250 To 500, Deduct	-220.69	
		For >500 To 1,000, Deduct	-302.71	
		For >1,000, Deduct	-384.73	
26 56 19 00-0296	EA	6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....	1,939.61	208.60
		For >50 To 100, Deduct	-96.98	
		For >100 To 250, Deduct	-145.47	
		For >250 To 500, Deduct	-232.02	
		For >500 To 1,000, Deduct	-318.57	
		For >1,000, Deduct	-405.12	
26 56 19 00-0297		Post Top, LED Area Fixtures (General Electric EPST) (26 56 19 00-0286) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0298 EA 3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3).....	1,436.95	208.60
For >50 To 100, Deduct	-71.85	
For >100 To 250, Deduct	-107.77	
For >250 To 500, Deduct	-169.19	
For >500 To 1,000, Deduct	-230.61	
For >1,000, Deduct	-292.02	
26 56 19 00-0299 EA 6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3).....	1,527.59	208.60
For >50 To 100, Deduct	-76.38	
For >100 To 250, Deduct	-114.57	
For >250 To 500, Deduct	-180.52	
For >500 To 1,000, Deduct	-246.47	
For >1,000, Deduct	-312.42	
26 56 19 00-0300 Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) (26 56 19 00-0286)		
Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 19 00-0301 EA 13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR).....	2,810.78	208.60
For >50 To 100, Deduct	-140.54	
For >100 To 250, Deduct	-210.81	
For >250 To 500, Deduct	-340.92	
For >500 To 1,000, Deduct	-471.03	
For >1,000, Deduct	-601.14	
26 56 19 00-0302 LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) (26 56 19 00-0286)		
Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts.		
26 56 19 00-0303 EA LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAH53)	801.35	113.78
For 0 To 10 Volt Dimming, Add	55.57	
For >50 To 100, Deduct	-40.07	
For >100 To 250, Deduct	-60.10	
For >250 To 500, Deduct	-94.48	
For >500 To 1,000, Deduct	-128.86	
For >1,000, Deduct	-163.24	
26 56 19 00-0304 LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) (26 56 19 00-0286)		
Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts.		
26 56 19 00-0305 EA LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT)	493.87	24.27
For Backlight Control Shield, Add	37.91	
For >50 To 100, Deduct	-24.69	
For >100 To 250, Deduct	-37.04	
For >250 To 500, Deduct	-59.31	
For >500 To 1,000, Deduct	-81.57	
For >1,000, Deduct	-103.84	
26 56 19 00-0306 Surface Mount, LED Strip Fixtures (Sylvania) (26 56 19 00-0187)		
26 56 19 00-0307 EA 4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D)	557.48	45.31
For >50 To 100, Deduct	-27.87	
For >100 To 250, Deduct	-41.81	
For >250 To 500, Deduct	-67.98	
For >500 To 1,000, Deduct	-94.15	
For >1,000, Deduct	-120.33	
26 56 21 HID Exterior Lighting (26 56)		
26 56 21 00-0001 High Mast Fixtures (26 56 21)		
26 56 21 00-0002 Metal Halide, High Mast Fixtures (26 56 21 00-0001)		
26 56 21 00-0003 EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,055.22	187.55
26 56 21 00-0004 EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,195.60	187.55
26 56 21 00-0005 EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,178.82	214.26
26 56 21 00-0006 EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,263.05	214.26
26 56 21 00-0007 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,292.34	267.82
26 56 21 00-0008 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,376.57	267.82
26 56 21 00-0009 High Pressure Sodium, High Mast Fixtures (26 56 21 00-0001)		
26 56 21 00-0010 EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux	2,122.63	187.55
26 56 21 00-0011 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,206.86	187.55
26 56 21 00-0012 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,567.70	198.26
26 56 21 00-0013 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,631.23	214.26
26 56 21 00-0014 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,786.88	267.82



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0015	HID, Pole Mounted (26 56 21)			
26 56 21 00-0016	Metal Halide, Pole Mounted (26 56 21 00-0015)			
26 56 21 00-0017	EA	175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	807.48	305.81
26 56 21 00-0018	EA	250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	910.72	331.96
26 56 21 00-0019	EA	400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,064.53	357.09
26 56 21 00-0020	EA	1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,344.55	418.52
26 56 21 00-0021	High Pressure Sodium, Pole Mounted (26 56 21 00-0015)			
26 56 21 00-0022	EA	100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	891.40	357.09
26 56 21 00-0023	EA	150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	917.59	357.09
26 56 21 00-0024	EA	175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	959.84	357.09
26 56 21 00-0025	EA	250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,070.72	357.09
26 56 21 00-0026	EA	400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,236.13	357.09
26 56 21 00-0027	EA	1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,286.09	357.09
26 56 21 00-0028	Low Pressure Sodium, Pole Mounted (26 56 21 00-0015)			
26 56 21 00-0029	EA	135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	816.01	194.26
26 56 21 00-0030	EA	135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	871.88	285.68
26 56 21 00-0031	EA	180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	1,029.64	285.68
26 56 21 00-0032	Metal Halide, Area Fixtures (26 56 21)			
26 56 21 00-0033	Metal Halide, Pole Mount, Area Fixtures (26 56 21 00-0032)			
	Note: Includes pulse start ballast.			
26 56 21 00-0034	EA	150 Watt, Metal Halide Area Fixture, Pole Mount	1,232.38	189.21
26 56 21 00-0035	EA	175 Watt, Metal Halide Area Fixture, Pole Mount	1,352.40	208.13
26 56 21 00-0036	EA	250 Watt, Metal Halide Area Fixture, Pole Mount	1,495.65	227.04
26 56 21 00-0037	EA	400 Watt, Metal Halide Area Fixture, Pole Mount	1,581.75	264.88
26 56 21 00-0038	High Pressure Sodium, Area Fixtures (26 56 21)			
26 56 21 00-0039	Pole Mount, High Pressure Sodium Area Fixtures (26 56 21 00-0038)			
26 56 21 00-0040	EA	100 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,023.84	151.36
26 56 21 00-0041	EA	150 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,114.22	189.21
26 56 21 00-0042	EA	250 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,208.55	227.04
26 56 21 00-0043	EA	400 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,274.08	264.88
26 56 21 00-0044	Surface Mounted, Rectangular Exterior Area Fixture (26 56 21)			
26 56 21 00-0045	Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture (26 56 21 00-0044)			
26 56 21 00-0046	EA	175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	757.09	285.68
26 56 21 00-0047	EA	250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	864.49	321.39
26 56 21 00-0048	EA	400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,038.83	357.09
26 56 21 00-0049	EA	1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,320.66	418.52
26 56 21 00-0050	High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture (26 56 21 00-0044)			
26 56 21 00-0051	EA	70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	730.89	244.25
26 56 21 00-0052	EA	100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	794.83	259.96
26 56 21 00-0053	EA	150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	857.43	274.25
26 56 21 00-0054	EA	175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	885.94	285.68
26 56 21 00-0055	EA	250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	984.69	321.39
26 56 21 00-0056	EA	400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,062.63	357.09
26 56 21 00-0057	EA	1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,456.50	418.52
26 56 21 00-0058	Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 21)			
26 56 21 00-0059	High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 21 00-0058)			
	Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.			
26 56 21 00-0060	EA	35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	867.92	192.84
26 56 21 00-0061	EA	50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	900.43	214.26
26 56 21 00-0062	EA	70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	962.56	244.25
26 56 21 00-0063	EA	100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	989.22	259.96
26 56 21 00-0064	EA	150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,016.81	274.25
26 56 21 00-0065	EA	175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,065.36	285.68
26 56 21 00-0066	EA	250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,167.47	321.39
26 56 21 00-0067	EA	400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,417.21	357.09



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 56 21 00-0068	Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 21 00-0058) Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.				
26 56 21 00-0069	EA	50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	955.56		214.26
26 56 21 00-0070	EA	70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,009.28		244.25
26 56 21 00-0071	EA	100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,043.84		259.96
26 56 21 00-0072	EA	150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,088.17		274.25
26 56 21 00-0073	EA	175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,112.12		285.68
26 56 21 00-0074	EA	250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,216.61		321.39
26 56 21 00-0075	EA	400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,547.91		357.09
26 56 21 00-0076	Wall Packs (26 56 21)				
26 56 21 00-0077	Non-Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076) Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.				
26 56 21 00-0078	EA	13 Watt Compact Fluorescent, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	397.13		67.74
26 56 21 00-0079	EA	50 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	425.63		67.74
26 56 21 00-0080	EA	35 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	425.63		67.74
26 56 21 00-0081	EA	70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	563.76		67.74
26 56 21 00-0082	Semi-Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076) Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.				
26 56 21 00-0083	EA	42 Watt Compact Fluorescent, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	786.72		67.74
26 56 21 00-0084	EA	50 Watt Metal Halide, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	796.96		67.74
26 56 21 00-0085	EA	70 Watt Metal Halide, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	805.83		67.74
26 56 21 00-0086	EA	100 Watt Metal Halide, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	789.66		67.74
26 56 21 00-0087	EA	70 Watt High Pressure Sodium, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	723.19		67.74
26 56 21 00-0088	EA	100 Watt High Pressure Sodium, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack	686.68		67.74
26 56 21 00-0089	Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076) Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.				
26 56 21 00-0090	EA	50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	828.77		67.74
26 56 21 00-0091	EA	70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	838.11		67.74
26 56 21 00-0092	EA	100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	821.97		67.74
26 56 21 00-0093	EA	70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	834.97		67.74
26 56 21 00-0094	EA	100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	834.97		67.74
26 56 21 00-0095	Non-Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.				
26 56 21 00-0096	EA	70 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	789.11		90.23
26 56 21 00-0097	EA	100 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	789.11		90.23
26 56 21 00-0098	EA	175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	739.08		90.23
26 56 21 00-0099	EA	70 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	758.25		90.23
26 56 21 00-0100	EA	100 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	758.25		90.23
26 56 21 00-0101	EA	150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	702.78		90.23
26 56 21 00-0102	Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.				
26 56 21 00-0103	EA	70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	818.75		90.23
26 56 21 00-0104	EA	100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	818.75		90.23
26 56 21 00-0105	EA	175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	818.75		90.23
26 56 21 00-0106	EA	70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	789.32		90.23
26 56 21 00-0107	EA	100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	789.32		90.23
26 56 21 00-0108	EA	150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	789.32		90.23
26 56 21 00-0109	Full Cutoff, Tempered Glass Lens, Small Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.				
26 56 21 00-0110	EA	175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack	1,058.20		90.23
26 56 21 00-0111	Cutoff, Borosilicate Glass Lens, Medium Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. Lithonia TWR2.				
26 56 21 00-0112	EA	250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	994.50		111.77
Note: 9-1/4" x 17-7/8" x 9-3/8".					
26 56 21 00-0113	EA	400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,062.32		111.77
Note: 9-1/4" x 17-7/8" x 12-1/2".					
26 56 21 00-0114	EA	250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,143.18		111.77
Note: 9-1/4" x 17-7/8" x 9-3/8".					
26 56 21 00-0115	EA	400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,165.44		111.77
Note: 9-1/4" x 17-7/8" x 12-1/2".					
26 56 21 00-0116	Cutoff, Tempered Glass Lens, Medium Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.				
26 56 21 00-0117	EA	250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	1,081.73		111.77

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	1,157.94	111.77
26 56 21 00-0119 Non-Cutoff, Polycarbonate Lens, Large Wall Packs (26 56 21 00-0076) Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.		
26 56 21 00-0120 EA 100 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack.....	998.29	135.48
26 56 21 00-0121 EA 175 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack.....	917.58	135.48
26 56 21 00-0122 EA 70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack.....	979.61	135.48
26 56 21 00-0123 EA 100 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack.....	985.79	135.48
26 56 21 00-0124 EA 150 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack.....	992.26	135.48
26 56 21 00-0125 Non-Cutoff, Borosilicate Glass Lens, Large Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.		
26 56 21 00-0126 EA 175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	998.31	135.48
26 56 21 00-0127 EA 250 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,025.24	135.48
26 56 21 00-0128 EA 400 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,105.95	135.48
26 56 21 00-0129 EA 150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,052.15	135.48
26 56 21 00-0130 EA 250 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,079.09	135.48
26 56 21 00-0131 EA 400 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,132.84	135.48
26 56 21 00-0132 Semi-Cutoff, Induction Wall Packs (26 56 21 00-0076)		
26 56 21 00-0133 Semi-Cutoff, Induction Wall Packs (Everlast®) (26 56 21 00-0132) Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0134 EA 70 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70).....	1,289.01	128.96
26 56 21 00-0135 EA 80 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80).....	1,315.67	136.54
26 56 21 00-0136 EA 100 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100).....	1,342.33	144.12
26 56 21 00-0137 EA 120 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120).....	1,495.36	151.72
26 56 21 00-0138 Induction, Roadway Lighting (26 56 21)		
26 56 21 00-0139 Induction Roadway Lighting (US Lighting Tech) (26 56 21 00-0138) Note: Includes gray powder coat finish heavy-duty die cast aluminum body and flat glass lens.		
26 56 21 00-0140 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	755.96	227.57
26 56 21 00-0141 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	830.10	235.15
26 56 21 00-0142 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	860.45	250.32
26 56 21 00-0143 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	890.79	265.49
26 56 21 00-0144 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	1,041.61	273.08
26 56 21 00-0145 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	1,061.51	280.66
26 56 21 00-0146 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	706.41	227.57
26 56 21 00-0147 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	787.63	235.15
26 56 21 00-0148 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	817.98	250.32
26 56 21 00-0149 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	848.32	265.49
26 56 21 00-0150 Induction, Area Fixtures (26 56 21)		
26 56 21 00-0151 Post Top, Induction Area Fixtures (26 56 21 00-0150)		
26 56 21 00-0152 Post Top, Induction Area Fixtures (US Lighting Tech) (26 56 21 00-0151) Note: Includes black powder coat finish heavy-duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 21 00-0153 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	843.06	208.60
26 56 21 00-0154 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	911.48	208.60
26 56 21 00-0155 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	911.48	208.60
26 56 21 00-0156 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	911.48	208.60
26 56 21 00-0157 Surface Mount, Induction Parking Structure Fixtures (26 56 21 00-0150)		
26 56 21 00-0158 Surface Mount, Induction Parking Structure Fixtures (Everlast®) (26 56 21 00-0157)		
26 56 21 00-0159 EA 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	762.82	189.64
26 56 21 00-0160 EA 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	810.52	193.43
26 56 21 00-0161 EA 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	822.83	197.22
26 56 21 00-0162 EA 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	835.13	201.01
26 56 21 00-0163 EA 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	847.44	204.81
26 56 21 00-0164 EA 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	864.46	208.60
26 56 21 00-0165 EA 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	891.25	197.22
26 56 21 00-0166 EA 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	903.55	201.01
26 56 21 00-0167 EA 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	915.86	204.81
26 56 21 00-0168 EA 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	952.93	208.60
26 56 21 00-0169 Pole Mount, Induction Area Fixtures (26 56 21 00-0150)		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR				TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION				UNIT COST		UNIT COST	
26 56 21 00-0170 Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) _(26 56 21 00-0169)							
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.							
26 56 21 00-0171	EA	70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)		1,346.45		128.96	
26 56 21 00-0172	EA	80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)		1,384.60		136.54	
26 56 21 00-0173	EA	100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)		1,422.75		144.12	

END OF SECTION 26

26	26	Electrical
	26 50	Lighting
	26 56	Exterior Lighting



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Communications			27
Common Work Results for Communications			27 05
Grounding and Bonding for Communications Systems			27 05 26

27

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 05 Common Work Results for Communications ⁽²⁷⁾

27 05 26 Grounding and Bonding for Communications Systems ^(27 05)

See CSI section 26 05 26 00-0000 for grounding.

27 05 26 00-0001	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00).....	1,121.82	138.76
Note: Excludes terminations.				
27 05 26 00-0002	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00).....	1,435.70	185.06
Note: Excludes terminations.				
27 05 26 00-0003	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00).....	2,272.17	277.52
Note: Excludes terminations.				
27 05 26 00-0004	EA	Lucent 3B1-EW, Gas Tube Protector Unit.....	13.56	2.04
27 05 26 00-0005	EA	44 Terminal Copper Ground Bus Bar (Siemens ECGK).....	90.43	36.66
27 05 26 00-0006	EA	2" x 1/4" x 12", G Pattern, Grounding Bus Bar.....	199.99	36.66
27 05 26 00-0007	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar.....	215.28	36.66
27 05 26 00-0008	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar.....	406.21	36.66
27 05 26 00-0009	EA	#6 AWG, Cable Runway Ground Strap.....	80.85	6.78
27 05 26 00-0010	EA	1/4" Screw Size, #6 AWG Compression Lug.....	28.53	6.78
27 05 26 00-0011	EA	3/8" Screw Size, #6 AWG Compression Lug.....	30.37	6.78
27 05 26 00-0012	EA	Two Mounting Hole, Ground Terminal Block.....	33.78	6.78

27 05 29 Hangers and Supports for Communications Systems ^(27 05)

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29)

27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12).....	10.50	3.40
For >50 To 100, Deduct			-0.43	
For >100 To 250, Deduct			-0.86	
For >250 To 500, Deduct			-1.64	
For >500, Deduct			-2.41	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.80	
For Work In Restricted Working Space, Add			2.03	
For Painted Powder Coated Finish, Add			0.76	
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21).....	11.08	3.40
For >50 To 100, Deduct			-0.45	
For >100 To 250, Deduct			-0.89	
For >250 To 500, Deduct			-1.68	
For >500, Deduct			-2.46	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.80	
For Work In Restricted Working Space, Add			2.03	
For Painted Powder Coated Finish, Add			2.65	
For Low Friction Xylan® Coated Finish, Add			9.44	
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32).....	11.97	3.40
For >50 To 100, Deduct			-0.47	
For >100 To 250, Deduct			-0.94	
For >250 To 500, Deduct			-1.75	
For >500, Deduct			-2.55	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.80	
For Work In Restricted Working Space, Add			2.03	
For Painted Powder Coated Finish, Add			3.25	
For Low Friction Xylan® Coated Finish, Add			11.73	
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64).....	19.69	3.40
For >50 To 100, Deduct			-0.66	
For >100 To 250, Deduct			-1.32	
For >250 To 500, Deduct			-2.32	
For >500, Deduct			-3.33	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.80	
For Work In Restricted Working Space, Add			2.03	
For Painted Powder Coated Finish, Add			1.74	
For Low Friction Xylan® Coated Finish, Add			10.40	

27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0008	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB)	11.86	3.40
		For >50 To 100, Deduct	-0.47	
		For >100 To 250, Deduct	-0.93	
		For >250 To 500, Deduct	-1.74	
		For >500, Deduct	-2.54	
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.80	
		For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0009	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB)	15.33	3.40
		For >50 To 100, Deduct	-0.55	
		For >100 To 250, Deduct	-1.11	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.89	
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.80	
		For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0010	EA	2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB)	17.02	3.40
		For >50 To 100, Deduct	-0.60	
		For >100 To 250, Deduct	-1.19	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-3.06	
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.80	
		For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0011	EA	4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB)	23.08	3.40
		For >50 To 100, Deduct	-0.75	
		For >100 To 250, Deduct	-1.49	
		For >250 To 500, Deduct	-2.58	
		For >500, Deduct	-3.66	
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.80	
		For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0012		Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes strut.		
27 05 29 00-0013	EA	3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH12-SC4)	12.50	3.40
		For >50 To 100, Deduct	-0.48	
		For >100 To 250, Deduct	-0.96	
		For >250 To 500, Deduct	-1.79	
		For >500, Deduct	-2.61	
		For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0014	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH21-SC4)	14.82	3.40
		For >50 To 100, Deduct	-0.54	
		For >100 To 250, Deduct	-1.08	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.84	
		For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0015	EA	2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4)	16.02	3.40
		For >50 To 100, Deduct	-0.57	
		For >100 To 250, Deduct	-1.14	
		For >250 To 500, Deduct	-2.05	
		For >500, Deduct	-2.96	
		For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0016	EA	4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4)	21.74	3.40
		For >50 To 100, Deduct	-0.71	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-2.48	
		For >500, Deduct	-3.53	
		For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0017		T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes T-Bar.		
27 05 29 00-0018	EA	3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH12-A28)	15.04	3.40
		For >50 To 100, Deduct	-0.55	
		For >100 To 250, Deduct	-1.09	
		For >250 To 500, Deduct	-1.98	
		For >500, Deduct	-2.86	
		For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0019	EA	1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH21-A28)	18.96	3.40
		For >50 To 100, Deduct	-0.64	
		For >100 To 250, Deduct	-1.29	
		For >250 To 500, Deduct	-2.27	
		For >500, Deduct	-3.25	
		For Work In Restricted Working Space, Add	2.03	



Communications			27
Common Work Results for Communications			27 05
Hangers and Supports for Communications Systems			27 05 29

27

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0020	EA		2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28).....	19.98	3.40
			For >50 To 100, Deduct	-0.67	
			For >100 To 250, Deduct	-1.34	
			For >250 To 500, Deduct	-2.35	
			For >500, Deduct	-3.35	
			For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0021			Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes threaded rod. See CSI section 26 05 29 00-0403 for threaded rod.		
27 05 29 00-0022	EA		3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	12.19	3.40
			For >50 To 100, Deduct	-0.47	
			For >100 To 250, Deduct	-0.95	
			For >250 To 500, Deduct	-1.76	
			For >500, Deduct	-2.58	
			For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0023	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6).....	12.72	3.40
			For >50 To 100, Deduct	-0.49	
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.80	
			For >500, Deduct	-2.63	
			For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0024	EA		2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	15.44	3.40
			For >50 To 100, Deduct	-0.56	
			For >100 To 250, Deduct	-1.11	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.90	
			For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0025			Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0403 for threaded rod, nuts and washers.		
27 05 29 00-0026	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	15.13	3.40
			For >50 To 100, Deduct	-0.55	
			For >100 To 250, Deduct	-1.10	
			For >250 To 500, Deduct	-1.98	
			For >500, Deduct	-2.87	
			For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0027	EA		2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB).....	16.40	3.40
			For >50 To 100, Deduct	-0.58	
			For >100 To 250, Deduct	-1.16	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-3.00	
			For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0028	EA		4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB).....	22.72	3.40
			For >50 To 100, Deduct	-0.74	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.63	
			For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0029			Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
27 05 29 00-0030	EA		3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	14.95	3.40
			For >50 To 100, Deduct	-0.54	
			For >100 To 250, Deduct	-1.09	
			For >250 To 500, Deduct	-1.97	
			For >500, Deduct	-2.85	
			For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0031	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	17.22	3.40
			For >50 To 100, Deduct	-0.60	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-3.08	
			For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0032	EA		2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	18.42	3.40
			For >50 To 100, Deduct	-0.63	
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-3.20	
			For Work In Restricted Working Space, Add	2.03	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0033 EA 4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	25.01	3.40
For >50 To 100, Deduct	-0.79	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-2.72	
For >500, Deduct	-3.86	
For Work In Restricted Working Space, Add	2.03	
27 05 29 00-0034 Adjustable Cable Supports (Caddy® CableCat CAT425) (27 05 29)		
27 05 29 00-0035 EA Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	42.55	4.47
For >50 To 100, Deduct	-1.40	
For >100 To 250, Deduct	-2.81	
For >250 To 500, Deduct	-4.89	
For >500, Deduct	-6.97	
For Installation On Concrete (Includes Drilling And Fastener), Add	3.49	
For Work In Restricted Working Space, Add	4.07	
27 05 29 00-0036 EA Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	43.40	4.47
For >50 To 100, Deduct	-1.42	
For >100 To 250, Deduct	-2.85	
For >250 To 500, Deduct	-4.95	
For >500, Deduct	-7.05	
For Work In Restricted Working Space, Add	4.07	
27 05 29 00-0037 EA Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	47.81	4.47
For >50 To 100, Deduct	-1.53	
For >100 To 250, Deduct	-3.07	
For >250 To 500, Deduct	-5.28	
For >500, Deduct	-7.49	
For Work In Restricted Working Space, Add	4.07	
27 05 29 00-0038 EA >1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	42.41	4.47
For >50 To 100, Deduct	-1.40	
For >100 To 250, Deduct	-2.80	
For >250 To 500, Deduct	-4.87	
For >500, Deduct	-6.95	
For Work In Restricted Working Space, Add	4.07	
27 05 29 00-0039 EA Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	44.45	4.47
For >50 To 100, Deduct	-1.45	
For >100 To 250, Deduct	-2.90	
For >250 To 500, Deduct	-5.03	
For >500, Deduct	-7.16	
For Work In Restricted Working Space, Add	4.07	
27 05 29 00-0040 EA >1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	46.48	4.47
For >50 To 100, Deduct	-1.50	
For >100 To 250, Deduct	-3.00	
For >250 To 500, Deduct	-5.18	
For >500, Deduct	-7.36	
For Work In Restricted Working Space, Add	4.07	
27 05 29 00-0041 EA Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	43.77	4.47
For >50 To 100, Deduct	-1.43	
For >100 To 250, Deduct	-2.87	
For >250 To 500, Deduct	-4.98	
For >500, Deduct	-7.09	
For Work In Restricted Working Space, Add	4.07	

27 05 33 Conduits and Back Boxes for Communications Systems (27 05)

See CSI section 26 05 33 00-0000 for conduit and boxes.

27 05 39 Surface Raceways for Communications Systems (27 05)

See CSI section 26 05 33 00-0000 for surface raceways.

27 05 43 Underground Ducts and Raceways for Communications Systems (27 05)

See CSI section 26 05 43 00-0000 for underground ducts and raceways.

27 05 46 Utility Poles for Communications Systems (27 05)

See CSI section 26 05 46 00-0000 for utility poles.

27 05 53 Identification for Communications Systems (27 05)

See CSI section 26 05 53 00-0000 for identification.

27 10 Structured Cabling (27)

Note: Includes identifying, tagging and testing.

27 11 Communications Equipment Room Fittings (27 10)**27 11 16 Communications Cabinets, Racks, Frames, and Enclosures (27 11)**

See CSI section 26 27 16 00-0000 for cabinets and enclosures.



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

27

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
27 11 16 00-0001	3/4" Fire Retardant Plywood Backboards (27 11 16)				
27 11 16 00-0002	EA 4' x 4' x 3/4" Fire Retardant Plywood Backboard For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	106.59		35.22	
27 11 16 00-0003	EA 4' x 8' x 3/4" Fire Retardant Plywood Backboard For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	213.18		70.45	
		64.70			
		129.37			
27 11 16 00-0004	Terminal Cabinets (27 11 16)				
27 11 16 00-0005	EA 12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	418.42		101.61	
27 11 16 00-0006	EA 18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	530.97		111.77	
27 11 16 00-0007	EA 24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	610.96		128.70	
27 11 16 00-0008	EA 18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	634.26		132.09	
27 11 16 00-0009	EA 24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	779.42		135.48	
27 11 16 00-0010	EA 26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard	967.16		152.41	
27 11 16 00-0011	EA 24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	991.11		149.02	
27 11 16 00-0012	EA 30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,270.52		212.29	
27 11 16 00-0013	EA 36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,358.25		233.29	
27 11 16 00-0014	EA 42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,645.98		246.43	
27 11 16 00-0015	EA 30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,359.54		203.21	
27 11 16 00-0016	EA 36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,470.26		220.15	
27 11 16 00-0017	EA 48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,831.86		282.20	
27 11 16 00-0018	EA 54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	2,197.67		352.79	
27 11 16 00-0019	EA 48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,499.48		348.85	
27 11 16 00-0020	EA 60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,867.53		424.45	
27 11 16 00-0021	Equipment Racks And Cable Managers (27 11 16)				
27 11 16 00-0022	Equipment Racks (27 11 16 00-0021) Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.				
27 11 16 00-0023	Standard Equipment Racks (27 11 16 00-0022)				
27 11 16 00-0024	19" Width, Standard Equipment Racks (27 11 16 00-0023)				
27 11 16 00-0025	EA 84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	624.06		216.76	
27 11 16 00-0026	EA 96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	836.61		230.31	
27 11 16 00-0027	EA 108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	901.68		243.86	
		9.53			
		18.80			
		20.70			
27 11 16 00-0028	Universal Equipment Racks (27 11 16 00-0022)				
27 11 16 00-0029	Universal Equipment Racks (27 11 16 00-0028)				
27 11 16 00-0030	19" Width, EIA Universal Equipment Racks (27 11 16 00-0029)				
27 11 16 00-0031	EA 36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	773.34		189.67	
27 11 16 00-0032	EA 48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	839.16		193.05	
27 11 16 00-0033	EA 60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	839.57		196.44	
27 11 16 00-0034	EA 66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	860.45		199.83	
27 11 16 00-0035	EA 72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	881.11		203.21	
27 11 16 00-0036	EA 78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	903.36		206.60	
27 11 16 00-0037	EA 84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	946.68		213.37	
27 11 16 00-0038	EA 90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	978.45		216.76	
27 11 16 00-0039	EA 96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	1,006.38		220.15	
27 11 16 00-0040	EA 102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	1,014.22		223.54	
27 11 16 00-0041	EA 108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08)..... For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	28.36			
27 11 16 00-0042	23" Width, Universal Equipment Racks (27 11 16 00-0029)				
27 11 16 00-0043	EA 36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31) For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	813.77		189.67	
27 11 16 00-0044	EA 48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20) For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	840.66		193.05	
27 11 16 00-0045	EA 60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19) For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	864.47		196.44	
27 11 16 00-0046	EA 66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00) For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	907.80		199.83	
27 11 16 00-0047	EA 72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01) For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	929.86		203.21	
		21.72			
		22.73			
		23.58			
		25.41			
		26.17			

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0048 EA 78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02) 953.72		206.60
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.03	
27 11 16 00-0049 EA 84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03) 834.80		209.99
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	20.74	
27 11 16 00-0050 EA 90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05) 1,000.13		213.37
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	28.67	
27 11 16 00-0051 EA 96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15) 1,034.43		216.76
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	30.05	
27 11 16 00-0052 EA 102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17) 1,064.57		220.15
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	31.21	
27 11 16 00-0053 EA 108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08) 1,072.50		223.54
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	31.27	
27 11 16 00-0054 35" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0055 EA 72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01) 998.39		203.21
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	29.60	
27 11 16 00-0056 EA 84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03) 1,049.72		209.99
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	31.49	
27 11 16 00-0057 UL Listed Universal Equipment Racks (27 11 16 00-0028)		
Note: UL listed as a communications circuit accessory.		
27 11 16 00-0058 19" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0059 EA 36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31) 812.75		189.67
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	21.67	
27 11 16 00-0060 EA 48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20) 873.64		193.05
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	24.38	
27 11 16 00-0061 EA 60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19) 887.20		196.44
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	24.72	
27 11 16 00-0062 EA 66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00) 906.56		199.83
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	25.35	
27 11 16 00-0063 EA 72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01) 928.57		203.21
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	26.11	
27 11 16 00-0064 EA 78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02) 952.37		206.60
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	26.96	
27 11 16 00-0065 EA 84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03) 975.30		209.99
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.77	
27 11 16 00-0066 EA 90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05) 998.70		213.37
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	28.60	
27 11 16 00-0067 EA 96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15) 1,032.96		216.76
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	29.97	
27 11 16 00-0068 EA 102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17) 1,063.02		220.15
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	31.14	
27 11 16 00-0069 EA 108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08) 1,070.89		223.54
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	31.19	
27 11 16 00-0070 23" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0071 EA 36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31) 857.26		189.67
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	23.90	
27 11 16 00-0072 EA 48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20) 934.01		193.05
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.39	
27 11 16 00-0073 EA 60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19) 946.29		196.44
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.67	
27 11 16 00-0074 EA 66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00) 958.60		199.83
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.95	
27 11 16 00-0075 EA 72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01) 982.19		203.21
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	28.79	
27 11 16 00-0076 EA 78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02) 1,007.78		206.60
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	29.73	
27 11 16 00-0077 EA 84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03) 1,032.34		209.99
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	30.62	
27 11 16 00-0078 EA 90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05) 1,057.45		213.37
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	31.53	
27 11 16 00-0079 EA 96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15) 1,094.50		216.76
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	33.05	
27 11 16 00-0080 EA 102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17) 1,127.00		220.15
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	34.33	
27 11 16 00-0081 EA 108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08) 1,135.13		223.54
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	34.40	
27 11 16 00-0082 4-Post Equipment Racks And Server Frames (27 11 16 00-0022)		
27 11 16 00-0083 4-Post Equipment Racks (27 11 16 00-0082)		
27 11 16 00-0084 EA 19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03) 1,624.26		338.69
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	47.34	
27 11 16 00-0085 EA 19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15) 1,766.26		352.24
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	53.09	
27 11 16 00-0086 EA 19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08) 1,900.53		365.79
For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	58.45	



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0087 4-Post Server Frame (27 11 16 00-0082)		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03) For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	1,665.90 49.43	338.69
27 11 16 00-0089 Cable Managers (27 11 16 00-0021)		
27 11 16 00-0090 Horizontal Cable Managers (27 11 16 00-0089)		
27 11 16 00-0091 Single-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0092 EA 1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719)	91.54	13.55
27 11 16 00-0093 EA 1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723)	101.31	13.55
27 11 16 00-0094 EA 1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701)	77.33	13.55
27 11 16 00-0095 EA 2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719)	93.01	13.55
27 11 16 00-0096 EA 2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723)	108.14	13.55
27 11 16 00-0097 EA 2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702)	85.05	13.55
27 11 16 00-0098 EA 3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719)	123.50	13.55
27 11 16 00-0099 EA 3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723)	139.82	13.55
27 11 16 00-0100 EA 3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703)	100.51	13.55
27 11 16 00-0101 Double-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0102 EA 1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719)	112.37	13.55
27 11 16 00-0103 EA 1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723)	125.26	13.55
27 11 16 00-0104 EA 2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719)	117.95	13.55
27 11 16 00-0105 EA 2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723)	136.40	13.55
27 11 16 00-0106 EA 3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719)	151.03	13.55
27 11 16 00-0107 EA 3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723)	168.47	13.55
27 11 16 00-0108 Vertical Cable Managers (27 11 16 00-0089)		
27 11 16 00-0109 Single-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0110 EA 3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701)	200.98	20.32
27 11 16 00-0111 EA 6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701)	280.18	20.32
27 11 16 00-0112 EA 10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701)	446.31	20.32
27 11 16 00-0113 EA 12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701)	504.27	20.32
27 11 16 00-0114 EA 3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703)	214.50	20.32
27 11 16 00-0115 EA 6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703)	301.43	20.32
27 11 16 00-0116 EA 10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703)	484.95	20.32
27 11 16 00-0117 EA 12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703)	542.90	20.32
27 11 16 00-0118 EA 3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715)	241.54	20.32
27 11 16 00-0119 EA 6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715)	330.41	20.32
27 11 16 00-0120 EA 10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715)	542.90	20.32
27 11 16 00-0121 EA 12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715)	600.86	20.32
27 11 16 00-0122 Double-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0123 EA 3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701)	287.91	20.32
27 11 16 00-0124 EA 6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701)	338.13	20.32
27 11 16 00-0125 EA 10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701)	542.90	20.32
27 11 16 00-0126 EA 12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701)	639.49	20.32
27 11 16 00-0127 EA 3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703)	311.09	20.32
27 11 16 00-0128 EA 6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703)	361.32	20.32
27 11 16 00-0129 EA 10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703)	581.54	20.32
27 11 16 00-0130 EA 12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703)	678.13	20.32
27 11 16 00-0131 EA 3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715)	342.00	20.32
27 11 16 00-0132 EA 6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715)	392.22	20.32
27 11 16 00-0133 EA 10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715)	639.49	20.32
27 11 16 00-0134 EA 12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715)	736.08	20.32
27 11 16 00-0135 Accessories For Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0136 EA Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716)	123.69	13.55
27 11 16 00-0137 EA Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717)	131.42	13.55
27 11 16 00-0138 EA Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718)	139.14	13.55
27 11 16 00-0139 EA Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726)	127.55	13.55
27 11 16 00-0140 EA Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727)	139.14	13.55
27 11 16 00-0141 EA Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728)	150.73	13.55
27 11 16 00-0142 EA Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746)	143.01	13.55
27 11 16 00-0143 EA Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747)	154.60	13.55
27 11 16 00-0144 EA Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748)	166.19	13.55
27 11 16 00-0145 EA Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756)	150.73	13.55
27 11 16 00-0146 EA Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757)	166.19	13.55
27 11 16 00-0147 EA Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758)	177.78	13.55
27 11 16 00-0148 EA Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001)	104.37	13.55
27 11 16 00-0149 EA Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701)	119.83	13.55
27 11 16 00-0150 EA Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001)	125.04	13.55
27 11 16 00-0151 EA Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001)	81.19	13.55

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 11 19 Communications Termination Blocks and Patch Panels (27 11)

Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 26 05 53 00-0020 for labeling.

27 11 19 00-0001 Computer Network Components (27 11 19)**27 11 19 00-0002 Ethernet Patch Panels (27 11 19 00-0001)**

27 11 19 00-0003	EA	12 Port, Category 5E Patch Panel	262.68	67.74
27 11 19 00-0004	EA	24 Port, Category 5E Patch Panel	371.21	67.74
27 11 19 00-0005	EA	32 Port, Category 5E Patch Panel	473.91	67.74
27 11 19 00-0006	EA	48 Port, Category 5E Patch Panel	569.60	67.74
27 11 19 00-0007	EA	64 Port, Category 5E Patch Panel	888.21	84.67
27 11 19 00-0008	EA	96 Port, Category 5E Patch Panel	1,038.78	101.61
27 11 19 00-0009	EA	12 Port, Category 6 Patch Panel	346.94	67.74
27 11 19 00-0010	EA	24 Port, Category 6 Patch Panel	378.22	67.74
27 11 19 00-0011	EA	48 Port, Category 6 Patch Panel	620.95	67.74
27 11 19 00-0012	EA	96 Port, Category 6 Patch Panel	1,136.81	101.61
27 11 19 00-0013	EA	16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP)	827.14	101.61
27 11 19 00-0014	EA	16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP)	870.12	101.61
27 11 19 00-0015	EA	12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-Legrand OR-PMP61289)	297.48	67.74
27 11 19 00-0016	EA	Terminate One End Of A 4 Pair Cable To Category "X" Specifications	48.00	
		<i>For >5 To 10 Cables, Deduct</i>	-8.64	
		<i>For >10 Cables, Deduct</i>	-19.20	
27 11 19 00-0017	EA	Terminate One End Of A Twisted Pair Of Wires	13.20	
		Note: Per each pair		
		<i>For >20 To 40 Pairs, Deduct</i>	-2.11	
		<i>For >40 Pairs, Deduct</i>	-5.02	

27 11 19 00-0018 Fiber Optic Cable Patch Panels And Enclosures (27 11 19 00-0001)**27 11 19 00-0019 Fiber Optic Cable Connector Housings (27 11 19 00-0018)****27 11 19 00-0020 Wall Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)**

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0021	EA	1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	144.33	30.48
27 11 19 00-0022	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	209.22	30.48
27 11 19 00-0023	EA	4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	305.22	30.48
27 11 19 00-0024	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	452.78	50.80
27 11 19 00-0025	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	623.70	50.80

27 11 19 00-0026 Rack Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0027	EA	2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	478.62	50.80
27 11 19 00-0028	EA	4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	535.47	50.80
27 11 19 00-0029	EA	6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	575.33	50.80
27 11 19 00-0030	EA	12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	671.64	50.80

27 11 19 00-0031 Rack Mount, Fiber Optic Cable Pretium® Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0032	EA	2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	581.99	50.80
		<i>For Splice Tray Bracket, Add</i>	84.85	
27 11 19 00-0033	EA	4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	678.92	50.80
		<i>For Splice Tray Bracket, Add</i>	92.78	
27 11 19 00-0034	EA	12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	842.29	50.80
		<i>For Splice Tray Bracket, Add</i>	338.02	

27 11 19 00-0035 Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0036	EA	8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	991.68	50.80
27 11 19 00-0037	EA	12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,272.97	50.80
27 11 19 00-0038	EA	24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,443.48	50.80
27 11 19 00-0039	EA	48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,878.36	50.80

27 11 19 00-0040 Wall Mount, Fiber Optic Cable Industrial Connector Housings (27 11 19 00-0019)

Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0041	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	650.52	30.48
27 11 19 00-0042	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	902.69	50.80
27 11 19 00-0043	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	946.46	50.80



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0044	Wall Mount, Fiber Optic Cable Environmental Connector Housings (27 11 19 00-0019) Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.			
27 11 19 00-0045	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	680.76	30.48
27 11 19 00-0046	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	902.16	50.80
27 11 19 00-0047	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	1,056.99	50.80
27 11 19 00-0048	Fiber Optic Cable Connector Panels (27 11 19 00-0018)			
27 11 19 00-0049	SC Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0050	EA	6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	90.38	6.77
27 11 19 00-0051	EA	6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	97.90	6.77
27 11 19 00-0052	EA	8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	109.55	6.77
27 11 19 00-0053	EA	8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	119.57	6.77
27 11 19 00-0054	EA	12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	147.93	6.77
27 11 19 00-0055	EA	12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	162.90	6.77
27 11 19 00-0056	SC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0057	EA	6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	87.06	6.77
27 11 19 00-0058	EA	6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	88.83	6.77
27 11 19 00-0059	EA	8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	105.15	6.77
27 11 19 00-0060	EA	8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	107.50	6.77
27 11 19 00-0061	EA	12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	141.32	6.77
27 11 19 00-0062	EA	12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	144.81	6.77
27 11 19 00-0063	LC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0064	EA	6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	126.47	6.77
27 11 19 00-0065	EA	6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	138.91	6.77
27 11 19 00-0066	EA	8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	155.04	6.77
27 11 19 00-0067	EA	8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	171.65	6.77
27 11 19 00-0068	EA	12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	154.84	6.77
27 11 19 00-0069	EA	12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	172.52	6.77
27 11 19 00-0070	EA	16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	269.45	6.77
27 11 19 00-0071	EA	16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	302.60	6.77
27 11 19 00-0072	EA	24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	383.81	6.77
27 11 19 00-0073	EA	24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	285.04	6.77
27 11 19 00-0074	ST Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0075	EA	6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	75.51	6.77
27 11 19 00-0076	EA	6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	81.19	6.77
27 11 19 00-0077	EA	8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	89.73	6.77
27 11 19 00-0078	EA	8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	97.32	6.77
27 11 19 00-0079	EA	12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	118.16	6.77
27 11 19 00-0080	EA	12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	129.55	6.77
27 11 19 00-0081	MT-RJ, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0082	EA	12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel	93.31	6.77
27 11 19 00-0083	EA	12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel	138.50	6.77
27 11 19 00-0084	Fiber Optic Cable Pretium Edge® Modules (27 11 19 00-0048)			
27 11 19 00-0085	EA	12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module	1,100.95	6.77
27 11 19 00-0086	EA	12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module	1,104.78	6.77
27 11 19 00-0087	Fiber Optic Cable Splice Housings (27 11 19 00-0018)			
27 11 19 00-0088	Wall Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087) Note: Includes mounting hardware. Excludes splice trays.			
27 11 19 00-0089	EA	12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door	418.77	67.74
27 11 19 00-0090	Rack Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087) Note: Includes mounting hardware. Excludes splice trays.			
27 11 19 00-0091	EA	12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	625.44	50.80
27 11 19 00-0092	EA	22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	654.23	50.80
27 11 19 00-0093	Fiber Optic Cable Splice Trays (27 11 19 00-0087)			
27 11 19 00-0094	EA	Fiber Optic Cable Splice Tray	120.56	16.93
27 11 19 00-0095	Fiber Optic Cable Jumper Management Panels (27 11 19 00-0018) Note: Includes mounting hardware.			
27 11 19 00-0096	EA	Rack Mount, Fiber Optic Cable Jumper Management Panel	228.26	50.80

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

27 11 19 00-0097		Miscellaneous Accessories (27 11 19 00-0001)	
27 11 19 00-0098	EA	Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	68.02
27 11 19 00-0099	EA	Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	89.59
27 11 19 00-0100	EA	Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	98.51
27 11 19 00-0101	EA	Wall Mount Bracket For 96 Port Patch Panel.....	110.07
27 11 19 00-0102	EA	Lightning Protection Plus Stainless Steel Modules, Siemon.....	566.03
			67.74
27 11 19 00-0103		Telephone Components (27 11 19)	
27 11 19 00-0104		Terminal Blocks With Wide Range Of 22-8 AWG (27 11 19 00-0103)	
27 11 19 00-0105	EA	Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG.....	39.65
27 11 19 00-0106	EA	Terminal Block, Fuse Holder 600 Volt, 6.3 Amperes With Wire Range 22-8 AWG.....	74.98
27 11 19 00-0107	EA	Terminal Block, Fuse Holder 600 Volt, 10 Amperes With Wire Range 22-8 AWG.....	60.52
27 11 19 00-0108	EA	Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	30.67
27 11 19 00-0109	EA	Flat Terminal Block Connection With Wire Range 22-8 AWG.....	21.76
27 11 19 00-0110	EA	Ground Terminal Block With Wire Range 22-8 AWG.....	41.18
27 11 19 00-0111	EA	Terminal Block, Solderless Box With Lug 600 Volt, 60 Amperes With Wire Range 22-8 AWG.....	30.67
27 11 19 00-0112	EA	Terminal Block, Mini Box Lug 300 Volt, 30 Amperes With Wire Range 22-8 AWG.....	21.54
27 11 19 00-0113	EA	Flat Terminal Block Connection 300 Volt, 20 Amperes With Wire Range 22-8 AWG.....	21.38
27 11 19 00-0114	EA	Self Lifting Terminal Block, 300 Volt, 40 Amperes, Wire Connection With Wire Range 22-12 AWG.....	22.08
			9.51
27 11 19 00-0115		Terminal Block Mounting Channel (27 11 19 00-0103)	
27 11 19 00-0116	EA	Terminal Block Mounting Channel, .5 M Galvanized Steel.....	20.94
27 11 19 00-0117	EA	Terminal Block Mounting Channel, 1 M Galvanized Steel.....	26.92
27 11 19 00-0118	EA	Terminal Block Mounting Channel, 2 M Galvanized Steel.....	37.42
27 11 19 00-0119	EA	Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc.....	26.76
27 11 19 00-0120	EA	Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc.....	36.69
27 11 19 00-0121	EA	Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc.....	53.06
			8.14
27 11 19 00-0122		Outlet Termination Hardware (27 11 19 00-0103)	
27 11 19 00-0123	EA	Telephone Outlet Blocks.....	40.09
27 11 19 00-0124	EA	Phone Outlet Block For Floor Box.....	113.62
		Note: Excludes box.	
27 11 19 00-0125	EA	Fiber Optic "SC" Type Modular Bulkhead.....	99.27
27 11 19 00-0126	EA	Fiber Optic "ST" Type Modular Bulkhead.....	99.27
27 11 19 00-0127	EA	Type "F" Coaxial Connector Male.....	58.19
27 11 19 00-0128	EA	Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	149.12
27 11 19 00-0129	EA	Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	149.12
27 11 19 00-0130	EA	Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	179.44
27 11 19 00-0131	EA	Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	179.44
27 11 19 00-0132	EA	Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector.....	163.48
27 11 19 00-0133	EA	Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	1,411.01
27 11 19 00-0134	EA	Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V.....	69.90
		Note: Excludes cable terminations.	
27 11 19 00-0135	EA	5-Pair, Connecting Block.....	4.19
27 11 19 00-0136	EA	4-Pair, Connecting Block.....	4.53
27 11 19 00-0137	EA	Plastic Label Holder, Transparent.....	17.06
27 11 19 00-0138	EA	Marked Label, White, 5-Pair.....	4.63
27 11 19 00-0139	EA	Marked Label, Blue, 4-Pair.....	4.63
			3.39
27 11 19 00-0140		Terminations in Manhole or Junction Box (27 11 19 00-0103)	
27 11 19 00-0141	EA	25 Pair Cable Termination In Manhole Or Junction Box.....	216.76
27 11 19 00-0142	EA	50 Pair Cable Termination In Manhole Or Junction Box.....	433.53
27 11 19 00-0143	EA	100 Pair Cable Termination In Manhole Or Junction Box.....	867.06
27 11 19 00-0144	EA	150 Pair Cable Termination In Manhole Or Junction Box.....	1,300.59
27 11 19 00-0145	EA	200 Pair Cable Termination In Manhole Or Junction Box.....	1,521.41
27 11 19 00-0146	EA	300 Pair Cable Termination In Manhole Or Junction Box.....	2,281.45
27 11 19 00-0147	EA	400 Pair Cable Termination In Manhole Or Junction Box.....	2,869.41
27 11 19 00-0148	EA	500 Pair Cable Termination In Manhole Or Junction Box.....	3,587.44
27 11 19 00-0149	EA	750 Pair Cable Termination In Manhole Or Junction Box.....	5,381.14
27 11 19 00-0150	EA	1,000 Pair Cable Termination In Manhole Or Junction Box.....	6,525.90
27 11 19 00-0151	EA	1,200 Pair Cable Termination In Manhole Or Junction Box.....	7,437.78
			169.34
27 11 23		Communications Cable Management and Ladder Rack (27 11)	
27 11 23 00-0001		Equipment Supports (27 11 23)	
27 11 23 00-0002	EA	Environmental Enclosure, NEMA 4x SS, 6' Free Standing.....	32,154.78
27 11 23 00-0003	EA	DVR Enclosure.....	2,270.97
27 11 23 00-0004	EA	Wall Mount Type 4X Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	8,367.80
27 11 23 00-0005	EA	Panel, NEMA 12/27.00x21.00.....	609.16
27 11 23 00-0006	EA	Panel, NEMA 12/8.75x6.88.....	166.78
27 11 23 00-0007	EA	Clamp Assembly, Fast Opening, Stainless Steel Type 304.....	220.14
27 11 23 00-0008	EA	Wall-Mount Type 4x Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	7,433.80
27 11 23 00-0009	EA	12" x 5'-11" Tubular Runway.....	134.20
			32.52



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 23 00-0010 EA 12" x 9'-11" Tubular Runway	231.36	54.19
27 11 23 00-0011 EA Shelf Bracket Support For Tubular Runway	42.49	10.16
27 11 23 00-0012 EA Straight Clamp Hardware For Tubular Runway	18.13	6.77
27 11 23 00-0013 EA Corner Clamp Hardware For Tubular Runway	19.27	6.77
27 11 23 00-0014 EA 90 Degree Edge Clamp Hardware For Tubular Runway	44.27	12.20
27 11 23 00-0015 EA Wall Angle Assembly Hardware For 12" Wide Tubular Runway	94.38	20.32
27 11 23 00-0016 EA J-Bolt Hardware For Tubular Runway	8.57	2.98
27 11 23 00-0017 EA T Bracket Hardware For Tubular Runway	48.41	16.93
27 11 23 00-0018 EA 110 Jumper Trough (Commscope 107831133)	37.35	6.77
27 11 23 00-0019 LF Velcro CMP	3.34	1.36

27 13 Communications Backbone Cabling (27 10)**27 13 13 Communications Copper Backbone Cabling** (27 13)**27 13 13 13 Communications Copper Cable Splicing and Terminations** (27 13 13)**27 13 13 13-0001 Building Entrance Terminals** (27 13 13 13)

27 13 13 13-0002 EA 25 Pair Gas Protective Unit Assembly Complete With Gas Protector	3,009.66	297.12
27 13 13 13-0003 EA 50 Pair Gas Protective Unit Assembly Complete With Gas Protector	3,995.86	495.20
27 13 13 13-0004 EA 100 Pair Gas Protective Unit Assembly Complete With Gas Protector	5,636.68	792.94

27 13 13 13-0005 Modular Plugs For Copper Communications Cable (27 13 13 13)

27 13 13 13-0006 EA Modular Plug For Non Shielded Copper Communications Cable	33.61	
Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.		
For >5 To 10, Deduct		
	-4.05	
For >10, Deduct		
	-8.11	
27 13 13 13-0007 EA Modular Plug For Shielded Copper Communications Cable	38.38	
Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.		
For >5 To 10, Deduct		
	-4.56	
For >10, Deduct		
	-9.12	

27 13 13 13-0008 Testing And Certification Of Copper Communications Cable (27 13 13 13)

Note: Use for existing systems.		
27 13 13 13-0009 EA Test 1-Pair Of A Copper Communications Cable For Continuity	6.77	
For >25-Pair, Deduct		
	-2.70	
27 13 13 13-0010 EA Certify 1-Pair Of A Copper Communications Cable	10.16	
For >25-Pair, Deduct		
	-4.05	
27 13 13 13-0011 EA Certify And Document 1-Pair Of A Copper Communications Cable	16.26	
For >25-Pair, Deduct		
	-6.48	
27 13 13 13-0012 EA Test 4-Pair Category 5-7 Telecommunications Cable For Continuity	27.10	
For >25-Pair, Deduct		
	-10.81	
27 13 13 13-0013 EA Certify 4-Pair Category 5-7 Telecommunications Cable	40.64	
For >25-Pair, Deduct		
	-16.21	
27 13 13 13-0014 EA Certify And Document 4-Pair Category 5-7 Telecommunications Cable	65.03	
For >25-Pair, Deduct		
	-25.94	

27 13 13 13-0015 Communications Termination Blocks (27 13 13 13)

27 13 13 13-0016 EA 100-Pair, 110 Block With Legs	66.77	16.93
27 13 13 13-0017 EA 300-Pair, 110 Block With Legs	114.62	16.93
27 13 13 13-0018 EA Clear Label Holder For 110 Wiring Block	14.48	6.77
27 13 13 13-0019 EA 4-Pair, 110C Connecting Block	8.22	3.39
27 13 13 13-0020 EA 5-Pair, 110C Connecting Block	8.39	3.39
27 13 13 13-0021 EA 100-Pair, 110 Jack Panel System	370.34	20.32
Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 13 13 13-0022 EA 300-Pair, 110 Jack Panel System	598.07	20.32
Note: Includes twelve 8-pin modular jacks and mounting legs.		

27 13 23 Communications Optical Fiber Backbone Cabling (27 13)**27 13 23 13 Communications Optical Fiber Splicing and Terminations** (27 13 23)**27 13 23 13-0001 Fiber Optic Cable Connectors** (27 13 23 13)

27 13 23 13-0002 EA ST Connector For Multimode Fiber Optic Cable	40.52	
27 13 23 13-0003 EA ST Connector For Singlemode Fiber Optic Cable	47.19	
27 13 23 13-0004 EA SC Connector For Multimode Fiber Optic Cable	45.46	
27 13 23 13-0005 EA SC Connector For Singlemode Fiber Optic Cable	53.97	
27 13 23 13-0006 EA LC Connector For Multimode Fiber Optic Cable	62.47	
27 13 23 13-0007 EA LC Connector For Singlemode Fiber Optic Cable	64.46	
27 13 23 13-0008 EA MT-RJ Connector For Multimode Fiber Optic Cable	95.19	

27 13 23 13-0009 Fiber Optic Cable Fan Out Kits (27 13 23 13)**27 13 23 13-0010 Buffer Tube Fan Out Kits For Fiber Optic Cable** (27 13 23 13-0009)

27 13 23 13-0011 EA 6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	293.70	
27 13 23 13-0012 EA 12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	298.04	
27 13 23 13-0013 EA 6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable	334.74	

27 Communications**27 10 Structured Cabling****27 13 Communications Backbone Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 13 23 13-0014 EA 12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	362.27	
27 13 23 13-0015 Spider Fan Out Kits For Fiber Optic Cable (27 13 23 13-0009) Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.		
27 13 23 13-0016 EA 6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	347.23	
27 13 23 13-0017 EA 12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	376.39	
27 13 23 13-0018 EA 18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	550.01	
27 13 23 13-0019 EA 24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	714.65	
27 13 23 13-0020 Fiber Optic Cable Splice Closures (27 13 23 13) Note: Includes mounting hardware. Excludes splicing and splice trays.		
27 13 23 13-0021 EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,051.12	135.48
27 13 23 13-0022 EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,322.08	270.95
27 13 23 13-0023 EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,322.08	270.95
27 13 23 13-0024 EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,757.04	135.48
27 13 23 13-0025 EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	2,028.00	270.95
27 13 23 13-0026 EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	2,028.00	270.95
27 13 23 13-0027 EA Splice Tray For Fiber Optic Cable Splice Closure.....	73.20	16.93
Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.		
27 13 23 13-0028 Fiber Optic Cable Splicing (27 13 23 13) Note: Price based on testing one wavelength.		
27 13 23 13-0029 EA Single Strand, Fusion Splice Of Fiber Optic Cable.....	40.64	
27 13 23 13-0030 EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	135.48	
27 13 23 13-0031 Fiber Optic Cable Testing (27 13 23 13) Note: Price based on testing one wavelength.		
27 13 23 13-0032 Fiber Optic Cable Testing Using An OTDR (27 13 23 13-0031) Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0033 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test.....	27.10	
For >12 To 48 Strands, Deduct	-2.03	
For >48 Strands, Deduct	-2.71	
27 13 23 13-0034 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test.....	40.64	
For >12 To 48 Strands, Deduct	-3.05	
For >48 Strands, Deduct	-4.06	
27 13 23 13-0035 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation.....	67.74	
For >12 To 48 Strands, Deduct	-5.08	
For >48 Strands, Deduct	-6.77	
27 13 23 13-0036 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation.....	101.61	
For >12 To 48 Strands, Deduct	-7.62	
For >48 Strands, Deduct	-10.16	
27 13 23 13-0037 Fiber Optic Cable Testing Using A Power Meter (27 13 23 13-0031) Note: Price based on testing one wavelength.		
27 13 23 13-0038 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test.....	27.10	
For >12 To 48 Strands, Deduct	-2.03	
For >48 Strands, Deduct	-2.71	
27 13 23 13-0039 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test.....	40.64	
For >12 To 48 Strands, Deduct	-3.05	
For >48 Strands, Deduct	-4.06	
27 13 23 13-0040 Fiber Optic Cable Light Source/Continuity Testing (27 13 23 13-0031) Note: Price based on testing one wavelength.		
27 13 23 13-0041 EA Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test.....	27.10	
For >12 To 48 Strands, Deduct	-2.03	
For >48 Strands, Deduct	-2.71	
27 13 23 13-0042 Other Fiber Optic Cable Equipment (27 13 23 13) Note: Patch antenna with 1 meter 3' SMA-N cable		
27 13 23 13-0043 EA 8 Port Ethernet Switch.....	1,112.79	266.54
27 13 23 13-0044 EA 18 dBi Gain, 5.25-5.85 GHz Band, 18 Degree Beamwidth.....	1,559.39	266.54
27 13 23 13-0045 EA Outdoor Multi Band 5.3 Or 5.8 GHz Wireless Ethernet Bridge.....	37,844.53	266.54
Note: 8 Volt DC input		
27 13 23 13-0046 EA UPS, 500 VA 300 Watt UPS For CCTV, Edco PA400-120U.....	379.45	33.37
27 13 23 13-0047 EA Hardened Ethernet Switch.....	3,998.49	133.44
27 13 23 13-0048 EA 1,440 Watt, 120 Volt AC Solar Power Station.....	103,529.25	3,202.29
27 13 23 13-0049 EA 2,880 Watt, 120 Volt AC Solar Power Station.....	128,596.06	4,269.72
27 13 23 13-0050 EA Fiber Break Out Box For 24 Fiber.....	1,691.89	266.85
27 13 23 13-0051 EA Fiber Optic MM Data (PTZ or SYNC) 1300 Video 850, 1 Fiber, RM.....	1,934.63	133.44
27 13 23 13-0052 EA Fiber Optic MM Data (PTZ or SYNC) 850 Video 850, 2 Fibers.....	1,621.91	133.44
27 13 23 13-0053 EA Fiber Optic 19" Rack, 115 Volt AC Input.....	2,068.07	200.14
27 13 23 13-0054 EA Commercial Gigabit Media Converter, Ethernet RJ45 to Fiber Optic. Shelf, Wall or Chassis Mount, 100 Volt AC - 260 Volt AC, Power Module Included. Gigabit Ports: 1 x 1000TX And 1 x 1000LX SM 20KM, (Etherwan Systems).....	1,580.37	
27 13 23 13-0055 EA Media Converter Chassis (Etherwan Systems), 16 Slots for any Standard Size Media Converter, 19" Rack Mount Redundant Power Supplies, Power Option 100 Volt AC - 260 Volt AC.....	1,580.37	



Communications			27
Structured Cabling			27 10
Communications Backbone Cabling			27 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 13 23 13-0056			Other Fiber Optic Cable Splicing (27 13 23 13)		
27 13 23 13-0057	EA		Fiber Optic Finger Splice	54.88	25.47
27 13 23 13-0058	EA		Fiber Optic Splice Box - Manholes	11,553.88	

27 15 Communications Horizontal Cabling (27 10)**27 15 13 Communications Copper Horizontal Cabling (27 15)**

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 13 00-0001			Solid Conductor Low Voltage Cable (27 15 13)		
27 15 13 00-0002			Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)		
27 15 13 00-0003			#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0004	MLF		1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,339.69	1,225.62
			For #10 AWG, Add	506.52	
			For Work In Restricted Working Space, Add	612.86	
27 15 13 00-0005	MLF		2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,663.25	1,268.95
			For #10 AWG, Add	603.85	
			For Work In Restricted Working Space, Add	634.66	
27 15 13 00-0006	MLF		3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,951.66	1,313.52
			For #10 AWG, Add	689.53	
			For Work In Restricted Working Space, Add	656.57	
27 15 13 00-0007	MLF		4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,256.17	1,358.09
			For #10 AWG, Add	780.19	
			For Work In Restricted Working Space, Add	679.25	
27 15 13 00-0008	MLF		5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,624.23	1,449.70
			For #10 AWG, Add	881.80	
			For Work In Restricted Working Space, Add	725.06	
27 15 13 00-0009	MLF		6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,965.78	1,540.08
			For #10 AWG, Add	974.94	
			For Work In Restricted Working Space, Add	770.24	
27 15 13 00-0010	MLF		8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,344.13	1,723.30
			For #10 AWG, Add	1,060.25	
			For Work In Restricted Working Space, Add	861.49	
27 15 13 00-0011	MLF		12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,748.84	2,271.73
			For #10 AWG, Add	1,405.00	
			For Work In Restricted Working Space, Add	1,135.65	
27 15 13 00-0012	MLF		24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,535.23	3,354.98
			For #10 AWG, Add	2,089.90	
			For Work In Restricted Working Space, Add	1,677.06	
27 15 13 00-0013			#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0014	MLF		1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,070.03	1,072.11
			For Work In Restricted Working Space, Add	535.93	
27 15 13 00-0015	MLF		2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,374.13	1,110.48
			For Work In Restricted Working Space, Add	555.24	
27 15 13 00-0016	MLF		3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,644.29	1,148.86
			For Work In Restricted Working Space, Add	574.56	
27 15 13 00-0017	MLF		4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,928.62	1,188.48
			For Work In Restricted Working Space, Add	594.24	
27 15 13 00-0018	MLF		5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,268.10	1,268.95
			For Work In Restricted Working Space, Add	634.35	
27 15 13 00-0019	MLF		6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,581.78	1,348.18
			For Work In Restricted Working Space, Add	673.72	
27 15 13 00-0020	MLF		8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,920.08	1,507.89
			For Work In Restricted Working Space, Add	753.94	
27 15 13 00-0021	MLF		12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,187.56	1,986.99
			For Work In Restricted Working Space, Add	993.49	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0022	MLF	24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	7,706.46 1,467.77	2,935.30
27 15 13 00-0023 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)				
27 15 13 00-0024	MLF	1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,845.51 478.73	956.97
27 15 13 00-0025	MLF	2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,053.46 495.82	991.64
27 15 13 00-0026	MLF	3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,351.72 512.90	1,026.31
27 15 13 00-0027	MLF	4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,603.76 530.73	1,060.97
27 15 13 00-0028	MLF	5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,903.80 566.39	1,132.77
27 15 13 00-0029	MLF	6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,182.09 601.67	1,203.34
27 15 13 00-0030	MLF	7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,332.15 637.32	1,275.14
27 15 13 00-0031	MLF	8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,483.44 673.35	1,346.95
27 15 13 00-0032	MLF	9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,832.31 716.06	1,432.37
27 15 13 00-0033	MLF	12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	4,608.90 887.09	1,774.05
27 15 13 00-0034	MLF	24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	6,846.18 1,310.48	2,620.85
27 15 13 00-0035 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)				
27 15 13 00-0036	MLF	1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,580.22 421.17	843.08
27 15 13 00-0037	MLF	2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,780.04 436.40	872.79
27 15 13 00-0038	MLF	3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,958.75 451.62	902.51
27 15 13 00-0039	MLF	4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,145.50 466.85	933.45
27 15 13 00-0040	MLF	5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,378.68 498.42	996.60
27 15 13 00-0041	MLF	6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,596.14 529.62	1,058.49
27 15 13 00-0042	MLF	8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,849.42 592.38	1,184.77
27 15 13 00-0043	MLF	12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,768.70 780.68	1,561.12
27 15 13 00-0044	MLF	24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	5,593.61 1,153.19	2,306.40
27 15 13 00-0045 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)				
27 15 13 00-0046	MLF	1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,411.89 382.91	766.32
27 15 13 00-0047	MLF	2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,572.99 396.66	793.55
27 15 13 00-0048	MLF	3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,716.38 410.40	821.41



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0049 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,866.68 424.51	849.27
For Work In Restricted Working Space, Add		
27 15 13 00-0050 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,060.96 452.92	906.22
For Work In Restricted Working Space, Add		
27 15 13 00-0051 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,242.86 481.34	963.16
For Work In Restricted Working Space, Add		
27 15 13 00-0052 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,477.17 538.53	1,077.06
For Work In Restricted Working Space, Add		
27 15 13 00-0053 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,262.19 709.75	1,419.99
For Work In Restricted Working Space, Add		
27 15 13 00-0054 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,839.43 1,048.46	2,097.18
For Work In Restricted Working Space, Add		
27 15 13 00-0055 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,074.11 1,073.35	2,146.69
For Work In Restricted Working Space, Add		
27 15 13 00-0056 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,999.38 1,249.77	2,499.53
For Work In Restricted Working Space, Add		
27 15 13 00-0057 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,431.84 1,337.78	2,675.32
For Work In Restricted Working Space, Add		
27 15 13 00-0058 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,806.12 1,671.67	3,343.84
For Work In Restricted Working Space, Add		
27 15 13 00-0059 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,497.53 2,200.91	4,402.33
For Work In Restricted Working Space, Add		
27 15 13 00-0060 #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0061 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,219.75 344.66	689.57
For Work In Restricted Working Space, Add		
27 15 13 00-0062 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,286.73 356.92	714.32
For Work In Restricted Working Space, Add		
27 15 13 00-0063 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,364.89 369.54	739.09
For Work In Restricted Working Space, Add		
27 15 13 00-0064 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,448.01 382.17	763.84
For Work In Restricted Working Space, Add		
27 15 13 00-0065 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,582.68 407.80	815.84
For Work In Restricted Working Space, Add		
27 15 13 00-0066 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,716.56 432.31	864.12
For Work In Restricted Working Space, Add		
27 15 13 00-0067 Triad (27 15 13 00-0002)		
27 15 13 00-0068 MLF 1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit	3,241.65	1,026.31
27 15 13 00-0069 MLF 4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	4,208.06	1,419.99
27 15 13 00-0070 MLF 8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	6,597.59	2,097.18
27 15 13 00-0071 MLF 12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	8,238.22	2,499.53
27 15 13 00-0072 MLF 24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	13,531.78	3,872.47
27 15 13 00-0073 MLF 36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	15,577.96	4,402.33
27 15 13 00-0074 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)		
27 15 13 00-0075 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0076 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,382.56 915.10	2,451.24
For #10 AWG, Add		
For Work In Restricted Working Space, Add	1,225.73	
27 15 13 00-0077 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,778.80 1,026.96	2,537.90
For #10 AWG, Add		
For Work In Restricted Working Space, Add	1,269.33	
27 15 13 00-0078 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,140.24 1,127.25	2,627.04
For #10 AWG, Add		
For Work In Restricted Working Space, Add	1,313.15	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0079	MLF	4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	5,520.34	2,716.18	
		For #10 AWG, Add	1,233.03		
		For Work In Restricted Working Space, Add	1,358.50		
27 15 13 00-0080	MLF	5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	6,041.10	2,899.40	
		For #10 AWG, Add	1,365.18		
		For Work In Restricted Working Space, Add	1,450.13		
27 15 13 00-0081	MLF	6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	6,533.26	3,080.15	
		For #10 AWG, Add	1,488.43		
		For Work In Restricted Working Space, Add	1,540.48		
27 15 13 00-0082	MLF	8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	7,215.75	3,446.59	
		For #10 AWG, Add	1,634.58		
		For Work In Restricted Working Space, Add	1,722.97		
27 15 13 00-0083	MLF	12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	9,534.32	4,543.46	
		For #10 AWG, Add	2,162.10		
		For Work In Restricted Working Space, Add	2,271.29		
27 15 13 00-0084	MLF	24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	14,125.42	6,709.96	
		For #10 AWG, Add	3,207.94		
		For Work In Restricted Working Space, Add	3,354.12		
27 15 13 00-0085 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)					
27 15 13 00-0086	MLF	1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	3,856.46	2,144.22	
		For Work In Restricted Working Space, Add	1,071.86		
27 15 13 00-0087	MLF	2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	4,224.94	2,220.98	
		For Work In Restricted Working Space, Add	1,110.49		
27 15 13 00-0088	MLF	3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	4,559.47	2,297.73	
		For Work In Restricted Working Space, Add	1,149.11		
27 15 13 00-0089	MLF	4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	4,909.43	2,376.96	
		For Work In Restricted Working Space, Add	1,188.48		
27 15 13 00-0090	MLF	5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	5,382.60	2,537.90	
		For Work In Restricted Working Space, Add	1,268.70		
27 15 13 00-0091	MLF	6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	5,827.51	2,696.37	
		For Work In Restricted Working Space, Add	1,347.44		
27 15 13 00-0092	MLF	8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	6,433.23	3,015.78	
		For Work In Restricted Working Space, Add	1,507.89		
27 15 13 00-0093	MLF	12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	8,499.20	3,973.98	
		For Work In Restricted Working Space, Add	1,986.98		
27 15 13 00-0094	MLF	24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	12,599.04	5,870.60	
		For Work In Restricted Working Space, Add	2,935.55		
27 15 13 00-0095 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)					
27 15 13 00-0096	MLF	1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	3,441.30	1,913.95	
		For Work In Restricted Working Space, Add	957.47		
27 15 13 00-0097	MLF	2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	3,706.19	1,983.28	
		For Work In Restricted Working Space, Add	991.64		
27 15 13 00-0098	MLF	3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	4,061.40	2,052.60	
		For Work In Restricted Working Space, Add	1,025.81		
27 15 13 00-0099	MLF	4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	4,372.86	2,121.93	
		For Work In Restricted Working Space, Add	1,061.46		
27 15 13 00-0100	MLF	5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	4,791.76	2,265.54	
		For Work In Restricted Working Space, Add	1,132.77		
27 15 13 00-0101	MLF	6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	5,187.66	2,406.67	
		For Work In Restricted Working Space, Add	1,203.34		
27 15 13 00-0102	MLF	7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	5,456.56	2,550.28	
		For Work In Restricted Working Space, Add	1,274.65		
27 15 13 00-0103	MLF	8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed			
		Exposed.....	5,727.95	2,693.89	
		For Work In Restricted Working Space, Add	1,346.70		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0104 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0105 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0106 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	6,219.18 1,432.12 7,565.87 1,774.18 11,214.47 2,620.97	2,864.73 3,548.11 5,241.70
27 15 13 00-0107 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0108 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0109 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0110 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0111 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0112 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0113 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0114 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0115 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0116 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,984.12 842.34 3,234.69 872.79 3,464.16 903.25 3,701.68 933.70 4,040.07 996.84 4,361.52 1,059.23 4,824.04 1,184.77 6,370.97 1,561.37 9,437.60 2,306.39	1,686.16 1,745.58 1,805.01 1,866.90 1,993.18 2,116.98 2,369.53 3,122.24 4,612.79
27 15 13 00-0117 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0118 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0119 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0120 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0121 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0122 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0123 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0124 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0125 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0126 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0127 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0128 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0129 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add 27 15 13 00-0130 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,688.27 765.83 2,895.17 793.31 3,084.37 820.79 3,281.72 849.02 3,570.71 905.85 3,847.31 962.67 4,272.26 1,077.06 5,628.01 1,419.49 8,334.29 2,096.92 8,651.91 2,146.69 10,165.26 2,499.53 10,891.12 2,675.56 13,378.33 3,343.33	1,532.64 1,587.12 1,642.83 1,698.54 1,812.44 1,926.33 2,154.12 2,839.98 4,194.35 4,293.39 4,999.04 5,350.64 6,687.68

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0131	MLF	100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,833.88 4,401.81	8,804.66
27 15 13 00-0132		#22 AWG, Shielded, Low Voltage Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0133	MLF	1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,368.62 689.32	1,379.13
27 15 13 00-0134	MLF	2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,476.45 713.83	1,428.66
27 15 13 00-0135	MLF	3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,596.70 739.09	1,478.18
27 15 13 00-0136	MLF	4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,721.92 764.34	1,527.70
27 15 13 00-0137	MLF	5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,942.01 815.60	1,631.69
27 15 13 00-0138	MLF	6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,157.60 864.62	1,728.25
27 15 13 00-0139		Triad, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0140	MLF	1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	3,241.65	1,026.31
27 15 13 00-0141	MLF	4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	4,208.06	1,419.99
27 15 13 00-0142	MLF	8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	6,597.59	2,097.18
27 15 13 00-0143	MLF	12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	8,238.22	2,499.53
27 15 13 00-0144	MLF	24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	13,531.78	3,872.47
27 15 13 00-0145	MLF	36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	15,577.96	4,402.33
27 15 13 00-0146		Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)		
27 15 13 00-0147		#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0148	MLF	1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,000.57 535.93	1,072.11
27 15 13 00-0149	MLF	2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,245.96 555.25	1,110.48
27 15 13 00-0150	MLF	3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,465.71 574.56	1,148.86
27 15 13 00-0151	MLF	4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,696.46 594.24	1,188.48
27 15 13 00-0152	MLF	5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,983.06 633.61	1,267.71
27 15 13 00-0153	MLF	6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,253.30 673.35	1,346.95
27 15 13 00-0154	MLF	8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,575.46 753.94	1,507.89
27 15 13 00-0155	MLF	12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	4,728.07 993.49	1,986.99
27 15 13 00-0156	MLF	24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	7,017.23 1,467.77	2,935.30
27 15 13 00-0157		#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0158	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,784.34 478.73	956.97
27 15 13 00-0159	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,000.69 495.82	991.64
27 15 13 00-0160	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,194.46 512.90	1,026.31
27 15 13 00-0161	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,399.32 530.73	1,060.97



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0162	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,653.75 566.02	1,131.54
27 15 13 00-0163	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,893.91 601.67	1,203.34
27 15 13 00-0164	MLF	7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,036.33 637.32	1,275.14
27 15 13 00-0165	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,240.44 673.35	1,346.95
27 15 13 00-0166	MLF	9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,548.68 716.02	1,432.37
27 15 13 00-0167	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	4,204.28 887.09	1,774.05
27 15 13 00-0168	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	6,239.86 1,310.67	2,620.85
27 15 13 00-0169 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)				
27 15 13 00-0170	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,561.26 421.17	841.84
27 15 13 00-0171	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,736.84 436.40	872.79
27 15 13 00-0172	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,852.71 451.62	903.74
27 15 13 00-0173	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,001.15 466.85	933.45
27 15 13 00-0174	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,193.21 498.42	996.60
27 15 13 00-0175	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,384.04 529.62	1,059.73
27 15 13 00-0176	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,821.17 592.38	1,184.77
27 15 13 00-0177	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,676.12 780.68	1,561.12
27 15 13 00-0178	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	5,016.84 1,153.19	2,306.40
27 15 13 00-0179 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)				
27 15 13 00-0180	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,387.47 382.91	766.32
27 15 13 00-0181	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,511.56 396.66	793.55
27 15 13 00-0182	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,768.46 451.62	903.74
27 15 13 00-0183	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,924.43 475.02	950.04
27 15 13 00-0184	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,077.60 498.42	996.60
27 15 13 00-0185	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,247.43 529.62	1,059.73
27 15 13 00-0186	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,480.94 589.79	1,179.32
27 15 13 00-0187	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,042.63 709.75	1,419.99
27 15 13 00-0188	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	4,510.09 1,048.46	2,097.18

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0189	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,707.61	2,146.69
		<i>For Work In Restricted Working Space, Add</i>	1,073.35	
27 15 13 00-0190	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,550.28	2,499.53
		<i>For Work In Restricted Working Space, Add</i>	1,249.77	
27 15 13 00-0191	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,948.67	2,675.32
		<i>For Work In Restricted Working Space, Add</i>	1,337.78	
27 15 13 00-0192	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,258.95	3,343.84
		<i>For Work In Restricted Working Space, Add</i>	1,671.67	
27 15 13 00-0193	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,723.23	4,402.33
		<i>For Work In Restricted Working Space, Add</i>	2,200.91	
27 15 13 00-0194 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)				
27 15 13 00-0195	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,222.51	689.57
		<i>For Work In Restricted Working Space, Add</i>	344.66	
27 15 13 00-0196	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,290.50	714.32
		<i>For Work In Restricted Working Space, Add</i>	356.92	
27 15 13 00-0197	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,375.11	739.09
		<i>For Work In Restricted Working Space, Add</i>	369.54	
27 15 13 00-0198	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,466.01	763.84
		<i>For Work In Restricted Working Space, Add</i>	382.17	
27 15 13 00-0199	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,597.10	815.84
		<i>For Work In Restricted Working Space, Add</i>	407.80	
27 15 13 00-0200	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,734.35	864.12
		<i>For Work In Restricted Working Space, Add</i>	432.31	
27 15 13 00-0201 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)				
27 15 13 00-0202 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)				
27 15 13 00-0203	MLF	1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,787.00	2,144.22
		<i>For Work In Restricted Working Space, Add</i>	1,071.86	
27 15 13 00-0204	MLF	2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,096.76	2,220.98
		<i>For Work In Restricted Working Space, Add</i>	1,110.49	
27 15 13 00-0205	MLF	3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,380.89	2,297.73
		<i>For Work In Restricted Working Space, Add</i>	1,149.11	
27 15 13 00-0206	MLF	4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,677.27	2,376.96
		<i>For Work In Restricted Working Space, Add</i>	1,188.48	
27 15 13 00-0207	MLF	5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,095.09	2,535.43
		<i>For Work In Restricted Working Space, Add</i>	1,267.22	
27 15 13 00-0208	MLF	6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,497.80	2,693.89
		<i>For Work In Restricted Working Space, Add</i>	1,346.70	
27 15 13 00-0209	MLF	8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,088.61	3,015.78
		<i>For Work In Restricted Working Space, Add</i>	1,507.89	
27 15 13 00-0210	MLF	12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,039.71	3,973.98
		<i>For Work In Restricted Working Space, Add</i>	1,986.98	
27 15 13 00-0211	MLF	24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	11,909.81	5,870.60
		<i>For Work In Restricted Working Space, Add</i>	2,935.55	
27 15 13 00-0212 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)				
27 15 13 00-0213	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,380.13	1,913.95
		<i>For Work In Restricted Working Space, Add</i>	957.47	
27 15 13 00-0214	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,653.42	1,983.28
		<i>For Work In Restricted Working Space, Add</i>	991.64	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0215	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,904.14	2,052.60
		<i>For Work In Restricted Working Space, Add</i>	1,025.81	
27 15 13 00-0216	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,168.42	2,121.93
		<i>For Work In Restricted Working Space, Add</i>	1,061.46	
27 15 13 00-0217	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,540.46	2,263.07
		<i>For Work In Restricted Working Space, Add</i>	1,132.03	
27 15 13 00-0218	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,899.48	2,406.67
		<i>For Work In Restricted Working Space, Add</i>	1,203.34	
27 15 13 00-0219	MLF	7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,160.74	2,550.28
		<i>For Work In Restricted Working Space, Add</i>	1,274.65	
27 15 13 00-0220	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,484.95	2,693.89
		<i>For Work In Restricted Working Space, Add</i>	1,346.70	
27 15 13 00-0221	MLF	9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,935.43	2,864.73
		<i>For Work In Restricted Working Space, Add</i>	1,432.05	
27 15 13 00-0222	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,161.24	3,548.11
		<i>For Work In Restricted Working Space, Add</i>	1,774.18	
27 15 13 00-0223	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	10,608.74	5,241.70
		<i>For Work In Restricted Working Space, Add</i>	2,621.33	
27 15 13 00-0224 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)				
27 15 13 00-0225	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,965.16	1,683.68
		<i>For Work In Restricted Working Space, Add</i>	842.34	
27 15 13 00-0226	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,191.49	1,745.58
		<i>For Work In Restricted Working Space, Add</i>	872.79	
27 15 13 00-0227	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,358.12	1,807.48
		<i>For Work In Restricted Working Space, Add</i>	903.25	
27 15 13 00-0228	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,557.33	1,866.90
		<i>For Work In Restricted Working Space, Add</i>	933.70	
27 15 13 00-0229	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,854.60	1,993.18
		<i>For Work In Restricted Working Space, Add</i>	996.84	
27 15 13 00-0230	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,149.42	2,119.46
		<i>For Work In Restricted Working Space, Add</i>	1,059.23	
27 15 13 00-0231	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,795.79	2,369.53
		<i>For Work In Restricted Working Space, Add</i>	1,184.77	
27 15 13 00-0232	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,278.39	3,122.24
		<i>For Work In Restricted Working Space, Add</i>	1,561.37	
27 15 13 00-0233	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,860.83	4,612.79
		<i>For Work In Restricted Working Space, Add</i>	2,306.39	
27 15 13 00-0234 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)				
27 15 13 00-0235	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,663.85	1,532.64
		<i>For Work In Restricted Working Space, Add</i>	765.83	
27 15 13 00-0236	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,833.74	1,587.12
		<i>For Work In Restricted Working Space, Add</i>	793.31	
27 15 13 00-0237	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,273.87	1,807.48
		<i>For Work In Restricted Working Space, Add</i>	903.25	
27 15 13 00-0238	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,507.83	1,900.08
		<i>For Work In Restricted Working Space, Add</i>	950.04	
27 15 13 00-0239	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,738.99	1,993.18
		<i>For Work In Restricted Working Space, Add</i>	996.84	
27 15 13 00-0240	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,012.81	2,119.46
		<i>For Work In Restricted Working Space, Add</i>	1,059.23	
27 15 13 00-0241	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,446.88	2,358.64
		<i>For Work In Restricted Working Space, Add</i>	1,179.57	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0242	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,408.45	2,839.98
		<i>For Work In Restricted Working Space, Add</i>	1,419.49	
27 15 13 00-0243	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,004.95	4,194.35
		<i>For Work In Restricted Working Space, Add</i>	2,096.92	
27 15 13 00-0244	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,285.41	4,293.39
		<i>For Work In Restricted Working Space, Add</i>	2,146.69	
27 15 13 00-0245	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,716.16	4,999.04
		<i>For Work In Restricted Working Space, Add</i>	2,499.53	
27 15 13 00-0246	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	10,407.95	5,350.64
		<i>For Work In Restricted Working Space, Add</i>	2,675.56	
27 15 13 00-0247	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	12,831.16	6,687.68
		<i>For Work In Restricted Working Space, Add</i>	3,343.33	
27 15 13 00-0248	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	17,059.58	8,804.66
		<i>For Work In Restricted Working Space, Add</i>	4,401.81	
27 15 13 00-0249		#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)		
27 15 13 00-0250	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,371.38	1,379.13
		<i>For Work In Restricted Working Space, Add</i>	689.32	
27 15 13 00-0251	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,480.22	1,428.66
		<i>For Work In Restricted Working Space, Add</i>	713.83	
27 15 13 00-0252	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,606.92	1,478.18
		<i>For Work In Restricted Working Space, Add</i>	739.09	
27 15 13 00-0253	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,739.92	1,527.70
		<i>For Work In Restricted Working Space, Add</i>	764.34	
27 15 13 00-0254	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,956.43	1,631.69
		<i>For Work In Restricted Working Space, Add</i>	815.60	
27 15 13 00-0255	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,175.39	1,728.25
		<i>For Work In Restricted Working Space, Add</i>	864.62	
27 15 13 00-0256		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench (27 15 13 00-0001) Note: Excludes excavation.		
27 15 13 00-0257	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	1,922.83	
27 15 13 00-0258	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,220.08	
27 15 13 00-0259	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,484.89	
27 15 13 00-0260	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,764.41	
27 15 13 00-0261	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,092.54	
27 15 13 00-0262	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,396.09	
27 15 13 00-0263		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) (27 15 13 00-0001)		
27 15 13 00-0264	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,045.69	666.63
27 15 13 00-0265	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,411.28	714.20
27 15 13 00-0266	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,115.69	902.89
27 15 13 00-0267	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,708.29	1,044.30
27 15 13 00-0268	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	10,947.88	1,190.28
27 15 13 00-0269	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	13,055.23	1,520.66
27 15 13 00-0270		Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)		
27 15 13 00-0271	MLF	1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,798.16	956.97
27 15 13 00-0272	MLF	2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,130.70	991.64
27 15 13 00-0273	MLF	3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,367.37	1,026.31
27 15 13 00-0274	MLF	4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,498.50	1,060.97
27 15 13 00-0275	MLF	5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,963.39	1,131.54
27 15 13 00-0276	MLF	6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,200.49	1,203.34
27 15 13 00-0277	MLF	8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,965.20	1,346.95



Communications			27
Structured Cabling			27 10
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0278	MLF	12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,951.41	1,774.05
27 15 13 00-0279	MLF	24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,499.63	2,620.85
27 15 13 00-0280	MLF	1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,557.52	841.84
27 15 13 00-0281	MLF	2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,831.02	872.79
27 15 13 00-0282	MLF	3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,058.63	903.74
27 15 13 00-0283	MLF	4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,175.33	933.45
27 15 13 00-0284	MLF	5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,573.05	996.60
27 15 13 00-0285	MLF	6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,874.22	1,059.73
27 15 13 00-0286	MLF	8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,243.55	1,184.77
27 15 13 00-0287	MLF	12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,198.78	1,561.12
27 15 13 00-0288	MLF	24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,660.32	2,306.40
27 15 13 00-0289	MLF	1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,381.53	766.32
27 15 13 00-0290	MLF	2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,557.35	793.55
27 15 13 00-0291	MLF	3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,727.95	820.80
27 15 13 00-0292	MLF	4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,838.51	849.27
27 15 13 00-0293	MLF	5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,997.38	906.22
27 15 13 00-0294	MLF	6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,174.07	963.16
27 15 13 00-0295	MLF	8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,434.64	1,077.06
27 15 13 00-0296	MLF	12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,340.89	1,419.99
27 15 13 00-0297	MLF	24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,061.17	2,097.18
27 15 13 00-0298	MLF	25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,320.76	2,146.69
27 15 13 00-0299	MLF	36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,265.86	2,499.53
27 15 13 00-0300	MLF	40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,757.17	2,675.32
27 15 13 00-0301	MLF	50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,174.55	3,343.84
27 15 13 00-0302	MLF	100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	11,018.89	4,402.33
27 15 13 00-0303	MLF	250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	21,173.54	8,108.91
27 15 13 00-0304	MLF	500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	31,600.88	10,731.00
27 15 13 00-0305	MLF	750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	42,093.51	13,522.69
27 15 13 00-0306	MLF	1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	59,151.70	18,548.98
27 15 13 00-0307	MLF	1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,343.65	766.32
27 15 13 00-0308	MLF	2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,472.62	793.55
27 15 13 00-0309	MLF	3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,598.25	820.80
27 15 13 00-0310	MLF	4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,685.92	849.27
27 15 13 00-0311	MLF	5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,821.90	906.22
27 15 13 00-0312	MLF	6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,968.82	963.16
27 15 13 00-0313	MLF	8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,204.20	1,077.06
27 15 13 00-0314	MLF	12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,989.55	1,419.99
27 15 13 00-0315	MLF	24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,496.80	2,097.18
27 15 13 00-0316	MLF	25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,692.74	2,146.69
27 15 13 00-0317	MLF	36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,532.16	2,499.53
27 15 13 00-0318	MLF	40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,929.18	2,675.32
27 15 13 00-0319	MLF	50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,236.86	3,343.84

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0320	MLF	100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,691.99	4,402.33
27 15 13 00-0321	MLF	250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	18,365.47	8,108.91
27 15 13 00-0322	MLF	500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	26,643.18	10,731.00
27 15 13 00-0323	MLF	750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	35,026.85	13,522.69
27 15 13 00-0324	MLF	1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	48,949.69	18,548.98
27 15 13 00-0325 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)				
27 15 13 00-0326	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,813.44	956.97
27 15 13 00-0327	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,043.02	991.64
27 15 13 00-0328	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,190.03	1,026.31
27 15 13 00-0329	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,383.31	1,060.97
27 15 13 00-0330	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,623.49	1,131.54
27 15 13 00-0331	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,861.19	1,203.34
27 15 13 00-0332	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,415.35	1,346.95
27 15 13 00-0333	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,443.67	1,774.05
27 15 13 00-0334	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,620.55	2,620.85
27 15 13 00-0335	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,588.90	841.84
27 15 13 00-0336	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,786.39	872.79
27 15 13 00-0337	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,913.71	903.74
27 15 13 00-0338	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,079.30	933.45
27 15 13 00-0339	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,286.62	996.60
27 15 13 00-0340	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,492.69	1,059.73
27 15 13 00-0341	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,969.84	1,184.77
27 15 13 00-0342	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,865.46	1,561.12
27 15 13 00-0343	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,757.89	2,306.40
27 15 13 00-0344	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,406.98	766.32
27 15 13 00-0345	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,577.38	793.55
27 15 13 00-0346	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,699.73	820.80
27 15 13 00-0347	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,913.98	849.27
27 15 13 00-0348	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,113.81	906.22
27 15 13 00-0349	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,478.69	963.16
27 15 13 00-0350	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,770.83	1,077.06
27 15 13 00-0351	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,521.67	1,419.99
27 15 13 00-0352	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,296.19	2,097.18
27 15 13 00-0353	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,581.23	2,146.69
27 15 13 00-0354	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,620.97	2,499.53
27 15 13 00-0355	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,100.58	2,675.32
27 15 13 00-0356	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,563.44	3,343.84
27 15 13 00-0357	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	11,569.22	4,402.33
27 15 13 00-0358	MLF	250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	22,338.90	8,108.91
27 15 13 00-0359	MLF	500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	33,657.99	10,731.00
27 15 13 00-0360	MLF	750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	45,025.32	13,522.69



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0361 MLF 1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	63,384.22	18,547.73
27 15 13 00-0362 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,359.92	766.32
27 15 13 00-0363 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,485.43	793.55
27 15 13 00-0364 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,580.21	820.80
27 15 13 00-0365 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,734.20	849.27
27 15 13 00-0366 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit.....	1,896.38	906.22
27 15 13 00-0367 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,163.69	963.16
27 15 13 00-0368 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,419.26	1,077.06
27 15 13 00-0369 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,105.19	1,419.99
27 15 13 00-0370 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,647.14	2,097.18
27 15 13 00-0371 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,859.36	2,146.69
27 15 13 00-0372 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,736.34	2,499.53
27 15 13 00-0373 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,148.85	2,675.32
27 15 13 00-0374 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,485.63	3,343.84
27 15 13 00-0375 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,044.03	4,402.33
27 15 13 00-0376 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	19,110.87	8,108.91
27 15 13 00-0377 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	27,959.16	10,731.00
27 15 13 00-0378 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	36,902.81	13,522.69
27 15 13 00-0379 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	51,658.12	18,548.98
27 15 13 00-0380 Copper Telecommunications Cable (27 15 13)		
27 15 13 00-0381 Indoor Telecommunications Cable (27 15 13 00-0380) Note: Shielded twisted pair cables (STP) includes a metallic foil wrap. Un-shielded twisted pair cables (UTP) excludes any shielding.		
27 15 13 00-0382 Category 3, Indoor Telecommunications Cable (27 15 13 00-0381) Note: Un-shielded twisted pair cables (UTP).		
27 15 13 00-0383 Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0382)		
27 15 13 00-0384 24 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0385 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0384)		
27 15 13 00-0386 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,061.97	569.01
27 15 13 00-0387 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,110.47	569.01
27 15 13 00-0388 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,127.61	569.01
27 15 13 00-0389 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,359.59	650.29
27 15 13 00-0390 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,716.58	650.29
27 15 13 00-0391 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,283.41	650.29
27 15 13 00-0392 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,626.07	812.86
27 15 13 00-0393 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	6,546.79	1,300.59
27 15 13 00-0394 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	8,845.18	1,463.16
27 15 13 00-0395 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	11,731.50	1,625.73
27 15 13 00-0396 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	17,152.28	2,276.02
27 15 13 00-0397 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	22,470.40	2,812.51
27 15 13 00-0398 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	35,570.63	3,901.75
27 15 13 00-0399 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	57,871.17	7,803.52
27 15 13 00-0400 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	78,749.89	11,705.27
27 15 13 00-0401 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0384)		
27 15 13 00-0402 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,010.32 569.01	1,138.02
27 15 13 00-0403 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,058.82 569.01	1,138.02
27 15 13 00-0404 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,075.96 569.01	1,138.02
27 15 13 00-0405 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,172.45 569.01	1,138.02
27 15 13 00-0406 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,529.44 569.01	1,138.02

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0407 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,367.22 650.29	1,300.59
27 15 13 00-0408 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,980.85 812.87	1,625.73
27 15 13 00-0409 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,630.62 975.44	1,950.88
27 15 13 00-0410 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,064.49 1,097.37	2,194.74
27 15 13 00-0411 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	13,086.27 1,219.30	2,438.59
27 15 13 00-0412 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	19,048.97 1,707.02	3,414.04
27 15 13 00-0413 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	24,827.72 2,113.45	4,226.90
27 15 13 00-0414 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	38,822.10 2,926.32	5,852.63
27 15 13 00-0415 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	64,374.10 5,852.64	11,705.27
27 15 13 00-0416 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	88,504.29 8,778.96	17,557.91
27 15 13 00-0417 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0418 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0417)		
27 15 13 00-0419 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,695.25	650.29
27 15 13 00-0420 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	5,500.07	812.86
27 15 13 00-0421 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	10,040.11	1,300.59
27 15 13 00-0422 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	17,816.18	1,625.73
27 15 13 00-0423 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	26,201.11	2,276.02
27 15 13 00-0424 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	34,125.09	2,812.51
27 15 13 00-0425 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	50,589.43	3,901.75
27 15 13 00-0426 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0417)		
27 15 13 00-0427 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,779.06 650.29	1,300.59
27 15 13 00-0428 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,854.85 812.87	1,625.73
27 15 13 00-0429 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	11,123.94 975.44	1,950.88
27 15 13 00-0430 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	19,170.95 1,219.30	2,438.59
27 15 13 00-0431 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	28,097.80 1,707.02	3,414.04
27 15 13 00-0432 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	36,482.41 2,113.45	4,226.90
27 15 13 00-0433 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	53,840.90 2,926.32	5,852.63
27 15 13 00-0434 Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0382)		
27 15 13 00-0435 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0434)		
27 15 13 00-0436 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0435)		
27 15 13 00-0437 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,101.19	569.01
27 15 13 00-0438 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,149.49	569.01
27 15 13 00-0439 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,185.62	569.01
27 15 13 00-0440 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,424.73	650.29
27 15 13 00-0441 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,813.87	650.29
27 15 13 00-0442 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,868.70	650.29
27 15 13 00-0443 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	4,817.67	812.86
27 15 13 00-0444 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	9,043.50	1,300.59
27 15 13 00-0445 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	15,644.00	1,625.73
27 15 13 00-0446 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	23,440.24	2,276.02
27 15 13 00-0447 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0435)		
27 15 13 00-0448 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,049.54 569.01	1,138.02
27 15 13 00-0449 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,097.84 569.01	1,138.02
27 15 13 00-0450 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,133.97 569.01	1,138.02
27 15 13 00-0451 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,237.59 569.01	1,138.02



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0452	MLF	12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,626.73 569.01	1,138.02
27 15 13 00-0453	MLF	25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,952.51 650.29	1,300.59
27 15 13 00-0454	MLF	50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,172.45 812.87	1,625.73
27 15 13 00-0455	MLF	100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,127.33 975.44	1,950.88
27 15 13 00-0456	MLF	200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	16,998.77 1,219.30	2,438.59
27 15 13 00-0457	MLF	300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	25,336.93 1,707.02	3,414.04
27 15 13 00-0458		Category 5E, Indoor Telecommunications Cable (27 15 13 00-0381)		
27 15 13 00-0459		Category 5E, Indoor Telecommunications Riser Cable (27 15 13 00-0458)		
27 15 13 00-0460		Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0459)		
27 15 13 00-0461	MLF	4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,135.33	569.01
27 15 13 00-0462	MLF	4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,179.13	569.01
27 15 13 00-0463	MLF	4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,315.46	650.29
27 15 13 00-0464	MLF	4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,359.24	650.29
27 15 13 00-0465		Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0459)		
27 15 13 00-0466	MLF	4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,083.68 569.01	1,138.02
27 15 13 00-0467	MLF	4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,127.48 569.01	1,138.02
27 15 13 00-0468	MLF	4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,399.27 650.29	1,300.59
27 15 13 00-0469	MLF	4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,443.05 650.29	1,300.59
27 15 13 00-0470		Category 5E, Indoor Telecommunications Plenum Cable (27 15 13 00-0458)		
27 15 13 00-0471		Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0470)		
27 15 13 00-0472	MLF	4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,296.39	569.01
27 15 13 00-0473	MLF	4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,774.11	650.29
27 15 13 00-0474		Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0470)		
27 15 13 00-0475	MLF	4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,244.74 569.01	1,138.02
27 15 13 00-0476	MLF	4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,857.92 650.29	1,300.59
27 15 13 00-0477		Category 6, Indoor Telecommunications Cable (27 15 13 00-0381)		
27 15 13 00-0478		Category 6, Indoor Telecommunications Riser Cable (27 15 13 00-0477)		
27 15 13 00-0479		Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0478)		
27 15 13 00-0480	MLF	4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,282.53	569.01
27 15 13 00-0481	MLF	4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,319.90	569.01
27 15 13 00-0482		Category 6, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0478)		
27 15 13 00-0483	MLF	4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,230.88 569.01	1,138.02
27 15 13 00-0484	MLF	4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,268.25 569.01	1,138.02
27 15 13 00-0485		Category 6, Indoor Telecommunications Plenum Cable (27 15 13 00-0477)		
27 15 13 00-0486		Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0485)		
27 15 13 00-0487	MLF	4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,572.56	569.01
27 15 13 00-0488		Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0485)		
27 15 13 00-0489	MLF	4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,520.91 569.01	1,138.02
27 15 13 00-0490		Category 6A, Indoor Telecommunications Cable (27 15 13 00-0381)		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0491	Category 6a, Indoor Telecommunications Riser Cable ^(27 15 13 00-0490)		
27 15 13 00-0492	Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit ^(27 15 13 00-0491)		
27 15 13 00-0493	MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,342.24	569.01
27 15 13 00-0494	Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed ^(27 15 13 00-0491)		
27 15 13 00-0495	MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,290.59 569.01	1,138.02
27 15 13 00-0496	Category 6A, Indoor Telecommunications Plenum Cable ^(27 15 13 00-0490)		
27 15 13 00-0497	Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit ^(27 15 13 00-0496)		
27 15 13 00-0498	MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,734.80	569.01
27 15 13 00-0499	Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed ^(27 15 13 00-0496)		
27 15 13 00-0500	MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,683.15 569.01	1,138.02
27 15 13 00-0501	Category 7, Indoor Telecommunications Cable ^(27 15 13 00-0381)		
27 15 13 00-0502	Category 7, Indoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0501)		
27 15 13 00-0503	MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,602.32	650.29
27 15 13 00-0504	MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	4,486.91	650.29
27 15 13 00-0505	Category 7, Indoor Telecommunications Cable, Installed Exposed ^(27 15 13 00-0501)		
27 15 13 00-0506	MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,686.13 650.29	1,300.59
27 15 13 00-0507	MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,570.72 650.29	1,300.59
27 15 13 00-0508	Outdoor Telecommunications Cable ^(27 15 13 00-0380)		
Note: Cable buried in trench excludes excavation.			
27 15 13 00-0509	PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0508)		
Note: Includes foam-skin polyolefin insulated conductors.			
27 15 13 00-0510	24 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0511	24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0510)		
27 15 13 00-0512	MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,095.81	650.29
27 15 13 00-0513	MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,523.85	1,138.02
27 15 13 00-0514	MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	3,581.39	731.58
27 15 13 00-0515	MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	5,473.48	812.86
27 15 13 00-0516	MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	7,761.35	1,138.02
27 15 13 00-0517	MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	9,782.32	1,300.59
27 15 13 00-0518	MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	16,887.95	1,463.16
27 15 13 00-0519	MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	24,830.32	2,113.45
27 15 13 00-0520	MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	32,905.70	2,763.75
27 15 13 00-0521	MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	44,690.87	3,739.18
27 15 13 00-0522	MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	70,391.91	7,478.36
27 15 13 00-0523	MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	96,114.67	11,054.97
27 15 13 00-0524	24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0510)		
27 15 13 00-0525	MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,892.58	
27 15 13 00-0526	MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,320.62	
27 15 13 00-0527	MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	3,310.43	
27 15 13 00-0528	MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	5,202.53	
27 15 13 00-0529	MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	7,354.91	
27 15 13 00-0530	MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	9,104.93	
27 15 13 00-0531	MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	16,617.00	
27 15 13 00-0532	MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	24,017.46	
27 15 13 00-0533	MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	31,212.23	
27 15 13 00-0534	MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	41,710.36	
27 15 13 00-0535	MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	62,263.25	
27 15 13 00-0536	MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	84,192.63	
27 15 13 00-0537	22 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0538	22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0537)		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0539 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,367.93	650.29
27 15 13 00-0540 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	3,032.24	650.29
27 15 13 00-0541 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	4,622.04	731.58
27 15 13 00-0542 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	7,325.71	812.86
27 15 13 00-0543 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	10,655.87	1,138.02
27 15 13 00-0544 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	13,717.36	1,300.59
27 15 13 00-0545 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	24,479.19	1,463.16
27 15 13 00-0546 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	35,656.95	2,113.45
27 15 13 00-0547 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	47,500.93	2,763.75
27 15 13 00-0548 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	70,178.73	3,739.18
27 15 13 00-0549 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	102,580.97	7,478.36
27 15 13 00-0550 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	144,272.47	11,054.97
27 15 13 00-0551 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0537)		
27 15 13 00-0552 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,164.70	
27 15 13 00-0553 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,829.01	
27 15 13 00-0554 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	4,351.08	
27 15 13 00-0555 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	7,054.76	
27 15 13 00-0556 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	10,249.43	
27 15 13 00-0557 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	13,310.93	
27 15 13 00-0558 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	24,208.24	
27 15 13 00-0559 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	34,844.09	
27 15 13 00-0560 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	45,807.46	
27 15 13 00-0561 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	67,198.22	
27 15 13 00-0562 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	94,452.31	
27 15 13 00-0563 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	132,350.43	
27 15 13 00-0564 19 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0509)		
27 15 13 00-0565 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0564)		
27 15 13 00-0566 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	7,830.14	731.58
27 15 13 00-0567 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	13,596.51	812.86
27 15 13 00-0568 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	21,810.47	1,138.02
27 15 13 00-0569 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	26,138.00	1,300.59
27 15 13 00-0570 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0564)		
27 15 13 00-0571 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	7,559.18	
27 15 13 00-0572 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	13,325.56	
27 15 13 00-0573 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	21,404.03	
27 15 13 00-0574 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	25,731.57	
27 15 13 00-0575 PE-39 Outdoor Telecommunications Cable (27 15 13 00-0508)		
Note: Includes solid polyolefin insulated conductors.		
27 15 13 00-0576 24 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		
27 15 13 00-0577 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0576)		
27 15 13 00-0578 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	2,946.93	1,138.02
27 15 13 00-0579 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	3,470.59	1,138.02
27 15 13 00-0580 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	4,527.05	1,138.02
27 15 13 00-0581 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	6,429.53	1,138.02
27 15 13 00-0582 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	10,288.04	1,138.02
27 15 13 00-0583 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	18,664.17	1,463.16
27 15 13 00-0584 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	27,253.16	2,113.45
27 15 13 00-0585 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	35,857.91	2,763.75
27 15 13 00-0586 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	49,001.33	3,739.18
27 15 13 00-0587 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	75,966.39	7,478.36
27 15 13 00-0588 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit.....	110,572.63	11,054.97
27 15 13 00-0589 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0576)		
27 15 13 00-0590 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	2,540.49	
27 15 13 00-0591 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	3,064.15	
27 15 13 00-0592 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	4,120.61	
27 15 13 00-0593 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	6,023.09	
27 15 13 00-0594 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	9,881.60	
27 15 13 00-0595 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	18,393.22	
27 15 13 00-0596 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	26,440.30	
27 15 13 00-0597 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	34,164.44	
27 15 13 00-0598 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	46,020.82	
27 15 13 00-0599 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	67,837.73	
27 15 13 00-0600 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench.....	98,650.59	
27 15 13 00-0601 22 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 15 13 00-0602	22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0601)		
27 15 13 00-0603	MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,249.68	1,138.02
27 15 13 00-0604	MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,019.17	1,138.02
27 15 13 00-0605	MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	5,656.70	1,138.02
27 15 13 00-0606	MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	8,669.16	1,138.02
27 15 13 00-0607	MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	14,955.77	1,138.02
27 15 13 00-0608	MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	27,647.11	1,463.16
27 15 13 00-0609	MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	40,513.09	2,113.45
27 15 13 00-0610	MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	51,895.54	2,763.75
27 15 13 00-0611	MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	72,500.14	3,739.18
27 15 13 00-0612	MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	114,016.41	7,478.36
27 15 13 00-0613	22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0601)		
27 15 13 00-0614	MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,843.24	
27 15 13 00-0615	MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,612.73	
27 15 13 00-0616	MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	5,250.26	
27 15 13 00-0617	MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	8,262.72	
27 15 13 00-0618	MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	14,549.33	
27 15 13 00-0619	MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	27,376.16	
27 15 13 00-0620	MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	39,700.23	
27 15 13 00-0621	MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	50,202.07	
27 15 13 00-0622	MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	69,519.63	
27 15 13 00-0623	MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	105,887.75	
27 15 13 00-0624	19 AWG, PE-39 Outdoor Telecommunications Cable ^(27 15 13 00-0575)		
27 15 13 00-0625	19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0624)		
27 15 13 00-0626	MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	9,284.19	1,138.02
27 15 13 00-0627	MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	15,393.86	1,138.02
27 15 13 00-0628	MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	28,063.16	1,138.02
27 15 13 00-0629	19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0624)		
27 15 13 00-0630	MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	8,877.75	
27 15 13 00-0631	MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	14,987.42	
27 15 13 00-0632	MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	27,656.72	
27 15 13 00-0633	(Aerial) Outdoor Telecommunications Cable ^(27 15 13 00-0508)		
	Note: Includes support wire.		
27 15 13 00-0634	24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13 00-0633)		
27 15 13 00-0635	MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,576.68	2,285.43
27 15 13 00-0636	MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,012.39	2,285.43
27 15 13 00-0637	MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,094.17	2,285.43
27 15 13 00-0638	MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	12,097.07	2,285.43
27 15 13 00-0639	MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	15,965.64	2,285.43
27 15 13 00-0640	MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	24,184.94	2,513.97
27 15 13 00-0641	MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	32,452.09	2,742.52
27 15 13 00-0642	22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13 00-0633)		
27 15 13 00-0643	MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,097.96	2,285.43
27 15 13 00-0644	MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,741.70	2,285.43
27 15 13 00-0645	MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,292.20	2,285.43
27 15 13 00-0646	MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	14,355.35	2,285.43
27 15 13 00-0647	MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	21,173.44	2,285.43
27 15 13 00-0648	MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	33,486.57	2,513.97
27 15 13 00-0649	19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13 00-0633)		
27 15 13 00-0650	MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,787.14	2,285.43
27 15 13 00-0651	MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,242.92	2,285.43
27 15 13 00-0652	MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	14,105.22	2,285.43
27 15 13 00-0653	MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	19,829.87	2,285.43
27 15 13 00-0654	MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	31,409.39	2,285.43
27 15 13 00-0655	Sound System Cables ^(27 15 13)		
	Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 15 13 00-0656	Speaker/Communications And Control Cable, Installed Exposed ^(27 15 13 00-0655)		
27 15 13 00-0657	Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed ^(27 15 13 00-0656)		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0658	MLF	2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,042.94 519.96	866.60
27 15 13 00-0659	MLF	2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,938.47 519.96	866.60
27 15 13 00-0660	MLF	2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,857.89 519.96	866.60
27 15 13 00-0661	MLF	4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,946.01 519.96	866.60
27 15 13 00-0662	MLF	4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,229.23 519.96	866.60
27 15 13 00-0663	MLF	6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,511.52 519.96	866.60
27 15 13 00-0664	MLF	4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,230.42 519.96	866.60
27 15 13 00-0665	MLF	4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,094.43 519.96	866.60
27 15 13 00-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0656)				
27 15 13 00-0667	MLF	2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,086.10 519.96	866.60
27 15 13 00-0668	MLF	2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,965.92 519.96	866.60
27 15 13 00-0669	MLF	2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,897.90 519.96	866.60
27 15 13 00-0670	MLF	4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,011.41 519.96	866.60
27 15 13 00-0671	MLF	8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,251.20 519.96	866.60
27 15 13 00-0672	MLF	2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,224.75 519.96	866.60
27 15 13 00-0673	MLF	2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,058.52 519.96	866.60
27 15 13 00-0674	MLF	4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,341.08 519.96	866.60
27 15 13 00-0675	MLF	6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,622.86 519.96	866.60
27 15 13 00-0676	MLF	2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,932.01 519.96	866.60
27 15 13 00-0677	MLF	2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,988.15 519.96	866.60
27 15 13 00-0678 Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0655)				
27 15 13 00-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)				
27 15 13 00-0680	MLF	2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,176.33	433.30
27 15 13 00-0681	MLF	2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,071.86	433.30
27 15 13 00-0682	MLF	2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	991.28	433.30
27 15 13 00-0683	MLF	4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,079.40	433.30
27 15 13 00-0684	MLF	4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,362.62	433.30
27 15 13 00-0685	MLF	6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,644.91	433.30
27 15 13 00-0686	MLF	4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,363.81	433.30
27 15 13 00-0687	MLF	4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,227.82	433.30

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0688		Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)		
27 15 13 00-0689	MLF	2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,219.49	433.30
27 15 13 00-0690	MLF	2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,099.31	433.30
27 15 13 00-0691	MLF	2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,031.29	433.30
27 15 13 00-0692	MLF	4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,144.80	433.30
27 15 13 00-0693	MLF	8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,384.59	433.30
27 15 13 00-0694	MLF	2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,358.14	433.30
27 15 13 00-0695	MLF	2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,191.91	433.30
27 15 13 00-0696	MLF	4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,474.47	433.30
27 15 13 00-0697	MLF	6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,756.25	433.30
27 15 13 00-0698	MLF	2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,121.54	433.30
27 15 13 00-0699	MLF	2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,065.40	433.30
27 15 23		Communications Optical Fiber Horizontal Cabling (27 15)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.				
27 15 23 00-0001		Indoor Fiber Optic Cable (27 15 23)		
Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.				
27 15 23 00-0002		Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001)		
Note: Excludes conduit or innerduct.				
27 15 23 00-0003		Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0004		Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)		
27 15 23 00-0005		Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)		
27 15 23 00-0006	MLF	1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,125.59	487.72
27 15 23 00-0007	MLF	2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,219.84	487.72
27 15 23 00-0008	MLF	4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,251.31	487.72
27 15 23 00-0009	MLF	6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,363.38	487.72
For Aluminum Armored Cable, Add			842.23	
For Steel Armored Cable, Add			1,644.81	
27 15 23 00-0010	MLF	8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,395.51	487.72
27 15 23 00-0011	MLF	12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,589.74	487.72
For Aluminum Armored Cable, Add			888.79	
For Steel Armored Cable, Add			1,727.08	
27 15 23 00-0012	MLF	18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,665.30	569.01
27 15 23 00-0013	MLF	24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,702.81	569.01
For Aluminum Armored Cable With Sub-Units, Add			1,780.56	
For Steel Armored Cable, Add			2,342.85	
27 15 23 00-0014	MLF	36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,491.32	569.01
For Aluminum Armored Cable With Sub-Units, Add			1,877.04	
For Steel Armored Cable, Add			2,144.16	
27 15 23 00-0015	MLF	48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,644.26	569.01
For Aluminum Armored Cable With Sub-Units, Add			1,969.39	
For Steel Armored Cable, Add			2,245.50	
27 15 23 00-0016	MLF	60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,608.66	569.01
27 15 23 00-0017	MLF	72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,865.12	569.01
27 15 23 00-0018	MLF	96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,214.14	569.01
27 15 23 00-0019	MLF	120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,668.63	650.29
27 15 23 00-0020	MLF	144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,508.23	650.29
27 15 23 00-0021		50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)		
27 15 23 00-0022	MLF	1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,152.73	487.72
27 15 23 00-0023	MLF	2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,248.83	487.72
27 15 23 00-0024	MLF	4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,507.68	487.72



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0025 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,780.16	487.72
For Aluminum Armored Cable, Add	958.14	
For Steel Armored Cable, Add	1,252.82	
27 15 23 00-0026 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,039.02	487.72
27 15 23 00-0027 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,570.36	487.72
For Aluminum Armored Cable, Add	965.11	
For Steel Armored Cable, Add	1,349.07	
27 15 23 00-0028 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,842.08	569.01
27 15 23 00-0029 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,763.06	569.01
For Aluminum Armored Cable With Sub-Units, Add	875.68	
For Steel Armored Cable, Add	875.68	
27 15 23 00-0030 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,670.42	569.01
27 15 23 00-0031 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,577.78	569.01
For Aluminum Armored Cable With Sub-Units, Add	1,562.67	
27 15 23 00-0032 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,485.14	569.01
27 15 23 00-0033 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,392.50	569.01
27 15 23 00-0034 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,220.84	569.01
For Aluminum Armored Cable With Sub-Units, Add	6,730.26	
27 15 23 00-0035 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,171.05	650.29
27 15 23 00-0036 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	23,985.77	650.29
27 15 23 00-0037 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)		
27 15 23 00-0038 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,169.73	487.72
27 15 23 00-0039 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,270.63	487.72
27 15 23 00-0040 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,542.43	487.72
27 15 23 00-0041 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,828.53	487.72
27 15 23 00-0042 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,100.33	487.72
27 15 23 00-0043 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,658.23	487.72
27 15 23 00-0044 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,936.76	569.01
27 15 23 00-0045 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,953.80	569.01
27 15 23 00-0046 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,956.52	569.01
27 15 23 00-0047 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,959.25	569.01
27 15 23 00-0048 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,961.98	569.01
27 15 23 00-0049 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,964.71	569.01
27 15 23 00-0050 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,984.47	569.01
27 15 23 00-0051 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,125.42	650.29
27 15 23 00-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	25,130.87	650.29
27 15 23 00-0053 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)		
27 15 23 00-0054 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,999.12	487.72
27 15 23 00-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,350.62	487.72
27 15 23 00-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,123.90	487.72
27 15 23 00-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,492.94	487.72
27 15 23 00-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,007.07	487.72
27 15 23 00-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,352.47	569.01
27 15 23 00-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,972.25	569.01
27 15 23 00-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,185.42	569.01
27 15 23 00-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,689.79	569.01

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**
 MINOR
CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 15 23 00-0064	50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0063)		
27 15 23 00-0065	MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,288.73	487.72
27 15 23 00-0066	MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,754.08	487.72
27 15 23 00-0067	MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,521.31	487.72
27 15 23 00-0068	MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,661.64	487.72
27 15 23 00-0069	MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,135.18	487.72
27 15 23 00-0070	MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,842.08	569.01
27 15 23 00-0071	MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,551.05	569.01
27 15 23 00-0072	MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,719.47	569.01
27 15 23 00-0073	MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	14,735.83	569.01
27 15 23 00-0074	62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0075	MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,362.53	487.72
27 15 23 00-0076	MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,851.14	487.72
27 15 23 00-0077	MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,656.73	487.72
27 15 23 00-0078	MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,854.08	487.72
27 15 23 00-0079	MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,351.30	487.72
27 15 23 00-0080	MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,136.77	569.01
27 15 23 00-0081	MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,931.19	569.01
27 15 23 00-0082	MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,158.03	569.01
27 15 23 00-0083	MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	15,425.20	569.01
27 15 23 00-0084	Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0085	Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)		
27 15 23 00-0086	Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0087	MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,116.50	487.72
27 15 23 00-0088	MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,121.08	487.72
27 15 23 00-0089	MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,361.63	487.72
27 15 23 00-0090	MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,389.78	487.72
	For Aluminum Armored Cable, Add	900.93	
	For Steel Armored Cable, Add	5,923.53	
27 15 23 00-0091	MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,531.47	487.72
27 15 23 00-0092	MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,557.98	487.72
	For Aluminum Armored Cable, Add	938.56	
	For Steel Armored Cable, Add	6,372.41	
27 15 23 00-0093	MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,377.46	569.01
27 15 23 00-0094	MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,288.38	569.01
	For Aluminum Armored Cable With Sub-Units, Add	908.76	
	For Steel Armored Cable, Add	6,979.56	
27 15 23 00-0095	MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,699.48	569.01
27 15 23 00-0096	MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,869.32	569.01
	For Aluminum Armored Cable With Sub-Units, Add	1,393.32	
	For Steel Armored Cable, Add	8,926.39	
27 15 23 00-0097	MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,251.49	569.01
27 15 23 00-0098	MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,727.21	569.01
27 15 23 00-0099	MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,794.05	569.01
27 15 23 00-0100	50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0101	MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,150.90	487.72
27 15 23 00-0102	MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,552.56	487.72
27 15 23 00-0103	MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,005.71	487.72



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0104 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,467.94	487.72
For Aluminum Armored Cable, Add	273.16	
For Steel Armored Cable, Add	633.03	
27 15 23 00-0105 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,910.85	487.72
27 15 23 00-0106 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,295.67	487.72
For Aluminum Armored Cable, Add	215.27	
For Steel Armored Cable, Add	623.76	
27 15 23 00-0107 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,188.57	569.01
27 15 23 00-0108 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,475.42	569.01
For Aluminum Armored Cable With Sub-Units, Add	1,939.01	
For Steel Armored Cable, Add	4,522.33	
27 15 23 00-0109 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,738.96	569.01
27 15 23 00-0110 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,002.50	569.01
For Aluminum Armored Cable With Sub-Units, Add	5,757.82	
27 15 23 00-0111 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,266.04	569.01
27 15 23 00-0112 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,529.58	569.01
27 15 23 00-0113 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	27,079.97	569.01
For Aluminum Armored Cable With Sub-Units, Add	11,515.63	
27 15 23 00-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0115 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,167.81	487.72
27 15 23 00-0116 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,589.55	487.72
27 15 23 00-0117 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,065.35	487.72
27 15 23 00-0118 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,550.70	487.72
27 15 23 00-0119 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,015.75	487.72
27 15 23 00-0120 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,419.81	487.72
27 15 23 00-0121 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,350.58	569.01
27 15 23 00-0122 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,801.77	569.01
27 15 23 00-0123 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,228.49	569.01
27 15 23 00-0124 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,655.21	569.01
27 15 23 00-0125 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,081.92	569.01
27 15 23 00-0126 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,508.64	569.01
27 15 23 00-0127 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	28,386.55	569.01
27 15 23 00-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)		
27 15 23 00-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0130 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,074.08	487.72
27 15 23 00-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,501.74	487.72
27 15 23 00-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,529.85	487.72
27 15 23 00-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,537.42	487.72
27 15 23 00-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,145.49	487.72
27 15 23 00-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,157.32	569.01
27 15 23 00-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,585.52	569.01
27 15 23 00-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,614.75	569.01
27 15 23 00-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,943.92	569.01
27 15 23 00-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,994.13	487.72
27 15 23 00-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,215.18	487.72

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,394.72	487.72
27 15 23 00-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,505.53	487.72
27 15 23 00-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,228.75	487.72
27 15 23 00-0145 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,354.54	569.01
27 15 23 00-0146 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,019.94	569.01
27 15 23 00-0147 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,870.55	569.01
27 15 23 00-0148 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	31,718.86	569.01
27 15 23 00-0149 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0150 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,203.19	487.72
27 15 23 00-0151 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,485.30	487.72
27 15 23 00-0152 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,773.81	487.72
27 15 23 00-0153 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,940.17	487.72
27 15 23 00-0154 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,749.55	487.72
27 15 23 00-0155 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,074.85	569.01
27 15 23 00-0156 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,873.52	569.01
27 15 23 00-0157 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,816.67	569.01
27 15 23 00-0158 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	33,257.39	569.01
27 15 23 00-0159 Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0001)		
Note: For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0160 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0159)		
27 15 23 00-0161 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)		
27 15 23 00-0162 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)		
27 15 23 00-0163 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,396.56	650.29
For Work In Restricted Working Space, Add	325.15	
27 15 23 00-0164 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,490.81	650.29
For Work In Restricted Working Space, Add	325.15	
27 15 23 00-0165 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,522.28	650.29
For Work In Restricted Working Space, Add	325.15	
27 15 23 00-0166 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,634.35	650.29
For Aluminum Armored Cable, Add	842.23	
For Steel Armored Cable, Add	1,644.81	
For Work In Restricted Working Space, Add	325.15	
27 15 23 00-0167 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,666.48	650.29
For Work In Restricted Working Space, Add	325.15	
27 15 23 00-0168 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,860.71	650.29
For Aluminum Armored Cable, Add	888.79	
For Steel Armored Cable, Add	1,727.08	
For Work In Restricted Working Space, Add	325.15	
27 15 23 00-0169 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,936.26	731.58
For Work In Restricted Working Space, Add	365.79	
27 15 23 00-0170 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,973.77	731.58
For Aluminum Armored Cable With Sub-Units, Add	1,780.56	
For Steel Armored Cable, Add	2,342.85	
For Work In Restricted Working Space, Add	365.79	
27 15 23 00-0171 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,762.28	731.58
For Aluminum Armored Cable With Sub-Units, Add	1,877.04	
For Steel Armored Cable, Add	2,144.16	
For Work In Restricted Working Space, Add	365.79	
27 15 23 00-0172 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,915.22	731.58
For Aluminum Armored Cable With Sub-Units, Add	1,969.39	
For Steel Armored Cable, Add	2,245.50	
For Work In Restricted Working Space, Add	365.79	
27 15 23 00-0173 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,879.62	731.58
For Work In Restricted Working Space, Add	365.79	
27 15 23 00-0174 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,136.08	731.58
For Work In Restricted Working Space, Add	365.79	
27 15 23 00-0175 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,485.10	731.58
For Work In Restricted Working Space, Add	365.79	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0176	MLF	120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,939.58 406.43	812.86
27 15 23 00-0177	MLF	144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,779.18 406.43	812.86
27 15 23 00-0178 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)				
27 15 23 00-0179	MLF	1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,423.70 325.15	650.29
27 15 23 00-0180	MLF	2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,519.80 325.15	650.29
27 15 23 00-0181	MLF	4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,778.65 325.15	650.29
27 15 23 00-0182	MLF	6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,051.13 958.14 1,252.82 325.15	650.29
27 15 23 00-0183	MLF	8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,309.99 325.15	650.29
27 15 23 00-0184	MLF	12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,841.33 965.11 1,349.07 325.15	650.29
27 15 23 00-0185	MLF	18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,113.04 365.79	731.58
27 15 23 00-0186	MLF	24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,034.02 875.68 875.68 365.79	731.58
27 15 23 00-0187	MLF	36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,941.38 365.79	731.58
27 15 23 00-0188	MLF	48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,848.74 1,562.67 365.79	731.58
27 15 23 00-0189	MLF	60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,756.10 365.79	731.58
27 15 23 00-0190	MLF	72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,663.46 365.79	731.58
27 15 23 00-0191	MLF	96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	16,491.80 6,730.26 365.79	731.58
27 15 23 00-0192	MLF	120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	20,442.00 406.43	812.86
27 15 23 00-0193	MLF	144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	24,256.72 406.43	812.86
27 15 23 00-0194 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)				
27 15 23 00-0195	MLF	1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,440.70 325.15	650.29
27 15 23 00-0196	MLF	2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,541.60 325.15	650.29
27 15 23 00-0197	MLF	4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,813.40 325.15	650.29
27 15 23 00-0198	MLF	6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,099.50 325.15	650.29
27 15 23 00-0199	MLF	8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,371.30 325.15	650.29
27 15 23 00-0200	MLF	12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,929.20 325.15	650.29
27 15 23 00-0201	MLF	18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,207.72 365.79	731.58
27 15 23 00-0202	MLF	24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,224.76 365.79	731.58
27 15 23 00-0203	MLF	36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,227.48 365.79	731.58
27 15 23 00-0204	MLF	48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,230.21 365.79	731.58

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0205 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,232.94 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0206 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,235.67 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0207 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	17,255.43 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0208 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	21,396.37 406.43	812.86
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0209 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	25,401.82 406.43	812.86
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0210 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)		
27 15 23 00-0211 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0212 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,270.09 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0213 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,621.59 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0214 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,394.87 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0215 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,763.91 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0216 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,278.04 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0217 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,623.43 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0218 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,243.21 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0219 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,456.38 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0220 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,960.75 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0221 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0222 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,559.70 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0223 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,025.05 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0224 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,792.28 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0225 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,932.61 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0226 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,406.15 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0227 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,113.04 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0228 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,822.01 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0229 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,990.43 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0230 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	15,006.79 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0231 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0232 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,633.50 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0233 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,122.11 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0234 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,927.70 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0235 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,125.05 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0236 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,622.27 325.15	650.29
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0237 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,407.73 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0238 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,202.15 365.79	731.58
<i>For Work In Restricted Working Space, Add</i>		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0239	MLF		36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	10,428.99	731.58
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0240	MLF		48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	15,696.16	731.58
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0241			Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0159)		
27 15 23 00-0242			Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0241)		
27 15 23 00-0243			Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0242)		
27 15 23 00-0244	MLF		1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,387.47	650.29
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0245	MLF		2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,392.05	650.29
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0246	MLF		4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,632.60	650.29
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0247	MLF		6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,660.75	650.29
			<i>For Aluminum Armored Cable, Add</i>	900.93	
			<i>For Steel Armored Cable, Add</i>	5,923.53	
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0248	MLF		8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,802.44	650.29
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0249	MLF		12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,828.95	650.29
			<i>For Aluminum Armored Cable, Add</i>	938.56	
			<i>For Steel Armored Cable, Add</i>	6,372.41	
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0250	MLF		18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,648.42	731.58
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0251	MLF		24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,559.34	731.58
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	908.76	
			<i>For Steel Armored Cable, Add</i>	6,979.56	
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0252	MLF		36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	6,970.44	731.58
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0253	MLF		48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	7,140.28	731.58
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,393.32	
			<i>For Steel Armored Cable, Add</i>	8,926.39	
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0254	MLF		60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	8,522.45	731.58
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0255	MLF		72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	9,998.17	731.58
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0256	MLF		96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	13,065.01	731.58
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0257			50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0242)		
27 15 23 00-0258	MLF		1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,421.87	650.29
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0259	MLF		2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	1,823.53	650.29
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0260	MLF		4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,276.68	650.29
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0261	MLF		6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	2,738.91	650.29
			<i>For Aluminum Armored Cable, Add</i>	273.16	
			<i>For Steel Armored Cable, Add</i>	633.03	
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0262	MLF		8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,181.82	650.29
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0263	MLF		12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,566.64	650.29
			<i>For Aluminum Armored Cable, Add</i>	215.27	
			<i>For Steel Armored Cable, Add</i>	623.76	
			<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0264	MLF		18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,459.53	731.58
			<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0265	MLF		24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	7,746.38	731.58
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,939.01	
			<i>For Steel Armored Cable, Add</i>	4,522.33	
			<i>For Work In Restricted Working Space, Add</i>	365.79	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0266	MLF	36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,009.92 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0267	MLF	48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,273.46 5,757.82 365.79	731.58
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>		
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0268	MLF	60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	17,537.00 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0269	MLF	72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	20,800.54 365.79 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0270	MLF	96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	27,350.93 365.79 11,515.63 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>		
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0271		62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0242)		
27 15 23 00-0272	MLF	1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,438.78 325.15	650.29
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0273	MLF	2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,860.52 325.15	650.29
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0274	MLF	4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,336.32 325.15	650.29
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0275	MLF	6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,821.67 325.15	650.29
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0276	MLF	8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,286.72 325.15	650.29
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0277	MLF	12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,690.78 325.15	650.29
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0278	MLF	18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,621.54 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0279	MLF	24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,072.73 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0280	MLF	36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,499.45 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0281	MLF	48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,926.17 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0282	MLF	60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	18,352.88 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0283	MLF	72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	21,779.60 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0284	MLF	96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	28,657.51 365.79	731.58
		<i>For Work In Restricted Working Space, Add</i>		
27 15 23 00-0285		Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0241)		
27 15 23 00-0286		Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0285)		
27 15 23 00-0287	MLF	2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,345.05	650.29
		<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0288	MLF	4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	3,772.71	650.29
		<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0289	MLF	6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	4,800.82	650.29
		<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0290	MLF	8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	5,808.39	650.29
		<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0291	MLF	12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	7,416.46	650.29
		<i>For Work In Restricted Working Space, Add</i>	325.15	
27 15 23 00-0292	MLF	18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	10,428.28	731.58
		<i>For Work In Restricted Working Space, Add</i>	365.79	
27 15 23 00-0293	MLF	24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed	14,856.48	731.58
		<i>For Work In Restricted Working Space, Add</i>	365.79	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0294 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,885.71 365.79	731.58
27 15 23 00-0295 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	22,214.88 365.79	731.58
27 15 23 00-0296 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0285)		
27 15 23 00-0297 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,265.10 325.15	650.29
27 15 23 00-0298 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,486.15 325.15	650.29
27 15 23 00-0299 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,665.69 325.15	650.29
27 15 23 00-0300 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,776.50 325.15	650.29
27 15 23 00-0301 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,499.72 325.15	650.29
27 15 23 00-0302 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	15,625.50 365.79	731.58
27 15 23 00-0303 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	18,290.90 365.79	731.58
27 15 23 00-0304 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	20,141.51 365.79	731.58
27 15 23 00-0305 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	31,989.82 365.79	731.58
27 15 23 00-0306 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0285)		
27 15 23 00-0307 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,474.16 325.15	650.29
27 15 23 00-0308 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,756.27 325.15	650.29
27 15 23 00-0309 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,044.78 325.15	650.29
27 15 23 00-0310 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,211.14 325.15	650.29
27 15 23 00-0311 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,020.52 325.15	650.29
27 15 23 00-0312 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	16,345.81 365.79	731.58
27 15 23 00-0313 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	19,144.48 365.79	731.58
27 15 23 00-0314 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	21,087.63 365.79	731.58
27 15 23 00-0315 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	33,528.35 365.79	731.58
27 15 23 00-0316 Hybrid, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001) Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0317 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0316)		
27 15 23 00-0318 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	1,578.82	487.72
27 15 23 00-0319 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	2,614.75	487.72
27 15 23 00-0320 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	5,939.98	569.01
27 15 23 00-0321 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	9,306.51	569.01
27 15 23 00-0322 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0316)		
27 15 23 00-0323 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	1,865.41	487.72

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0324 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,655.07	487.72
27 15 23 00-0325 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	7,031.68	569.01
27 15 23 00-0326 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	12,057.43	569.01
27 15 23 00-0327 Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0001) Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0328 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0327)		
27 15 23 00-0329 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,849.79 325.15	650.29
27 15 23 00-0330 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,885.72 325.15	650.29
27 15 23 00-0331 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,210.94 365.79	731.58
27 15 23 00-0332 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,577.47 365.79	731.58
27 15 23 00-0333 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0327)		
27 15 23 00-0334 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,136.38 325.15	650.29
27 15 23 00-0335 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,926.04 325.15	650.29
27 15 23 00-0336 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,302.64 365.79	731.58
27 15 23 00-0337 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	12,328.39 365.79	731.58
27 15 23 00-0338 Outdoor Fiber Optic Cable (27 15 23) Note: Cable buried in trench excludes excavation.		
27 15 23 00-0339 Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0338) Note: Excludes conduit or innerduct.		
27 15 23 00-0340 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0339)		
27 15 23 00-0341 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0340)		
27 15 23 00-0342 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,187.00 274.16	975.44
27 15 23 00-0343 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,221.13 276.43	975.44
27 15 23 00-0344 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,255.31 278.63	975.44
27 15 23 00-0345 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,289.47 281.30	975.44
27 15 23 00-0346 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,357.34 254.54	975.44
27 15 23 00-0347 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,496.17 283.59	975.44
27 15 23 00-0348 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,567.53 223.25	975.44
27 15 23 00-0349 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,589.55 260.95	975.44
27 15 23 00-0350 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,997.96 287.09	975.44
27 15 23 00-0351 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,223.13 287.06	975.44
27 15 23 00-0352 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,515.27 339.28	975.44
27 15 23 00-0353 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,029.57 325.74	975.44
27 15 23 00-0354 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,591.52 395.55	975.44
27 15 23 00-0355 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,179.65 264.78	975.44



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0356 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0340)		
27 15 23 00-0357 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,008.49	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-4.02	
27 15 23 00-0358 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,086.98	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	41.21	
27 15 23 00-0359 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,251.41	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	106.57	
27 15 23 00-0360 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,475.64	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-64.62	
27 15 23 00-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,569.07	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-34.32	
27 15 23 00-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,886.74	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-16.15	
27 15 23 00-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,559.43	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-87.85	
27 15 23 00-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,549.79	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	0.01	
27 15 23 00-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	6,652.26	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-200.97	
27 15 23 00-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	7,418.39	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-100.97	
27 15 23 00-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	8,408.75	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	464.14	
27 15 23 00-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	10,707.13	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-208.04	
27 15 23 00-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	12,986.82	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-278.22	
27 15 23 00-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	15,266.51	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	-330.75	
27 15 23 00-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0340)		
27 15 23 00-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	1,950.17	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	117.24	
27 15 23 00-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,062.89	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	125.73	
27 15 23 00-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,175.44	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	134.01	
27 15 23 00-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,314.48	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	152.56	
27 15 23 00-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,513.59	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	159.09	
27 15 23 00-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,865.63	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	169.55	
27 15 23 00-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,199.10	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	194.99	
27 15 23 00-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,837.33	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	216.67	
27 15 23 00-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,583.82	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	249.13	
27 15 23 00-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,273.30	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	268.08	
27 15 23 00-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	6,001.02	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	303.42	
27 15 23 00-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	7,472.85	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	341.16	
27 15 23 00-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	8,968.31	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	387.17	
27 15 23 00-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	10,486.85	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	355.64	
27 15 23 00-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0339)		
27 15 23 00-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0386)		
27 15 23 00-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,382.47	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	216.66	
27 15 23 00-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,449.02	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	310.97	
27 15 23 00-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,469.00	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	298.02	
27 15 23 00-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,548.73	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	248.09	
27 15 23 00-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,573.61	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	296.51	
27 15 23 00-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,685.35	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	281.21	
27 15 23 00-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,785.54	975.44
For Corrugated Coated Steel Tape Armored Cable, Add	284.55	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,945.36 360.84	975.44
27 15 23 00-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,170.53 365.55	975.44
27 15 23 00-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,394.82 378.71	975.44
27 15 23 00-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,698.91 325.76	975.44
27 15 23 00-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,190.78 424.84	975.44
27 15 23 00-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,834.29 418.33	975.44
27 15 23 00-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,360.88 334.16	975.44
27 15 23 00-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,606.85 306.60	975.44
27 15 23 00-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,839.87 171.70	975.44
27 15 23 00-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,146.47 36.79	975.44
27 15 23 00-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,293.63 61.32	975.44
27 15 23 00-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,440.80 61.32	975.44
27 15 23 00-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,784.19 73.58	975.44
27 15 23 00-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,090.79 282.07	975.44
27 15 23 00-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,753.05 551.88	975.44
27 15 23 00-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,415.31 919.80	975.44
27 15 23 00-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,967.19 1,011.78	975.44
27 15 23 00-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,690.76 1,287.72	975.44
27 15 23 00-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,199.23 1,900.92	975.44
27 15 23 00-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,959.60 1,434.89	975.44
27 15 23 00-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,909.58 3,495.24	975.44
27 15 23 00-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,026.29 147.16	975.44
27 15 23 00-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,136.66 159.09	975.44
27 15 23 00-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,246.86 170.99	975.44
27 15 23 00-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,357.23 182.89	975.44
27 15 23 00-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,643.15 196.71	975.44
27 15 23 00-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,923.52 230.52	975.44
27 15 23 00-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,267.07 250.38	975.44
27 15 23 00-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,932.04 309.36	975.44
27 15 23 00-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,609.44 354.44	975.44
27 15 23 00-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,289.17 394.69	975.44
27 15 23 00-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,003.90 440.14	975.44
27 15 23 00-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,454.27 518.98	975.44
27 15 23 00-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,326.30 536.50	975.44
27 15 23 00-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,423.37 553.84	975.44
27 15 23 00-0432 Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338)		
Note: Excludes trenching.		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0433	Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0432)		
27 15 23 00-0434	Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)		
27 15 23 00-0435	MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,051.52 274.16	
27 15 23 00-0436	MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,085.65 276.43	
27 15 23 00-0437	MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,119.83 278.63	
27 15 23 00-0438	MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,153.99 281.30	
27 15 23 00-0439	MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,221.86 254.54	
27 15 23 00-0440	MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,360.69 283.59	
27 15 23 00-0441	MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,432.05 223.25	
27 15 23 00-0442	MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,454.07 260.95	
27 15 23 00-0443	MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,862.48 287.09	
27 15 23 00-0444	MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,374.71 287.06	
27 15 23 00-0445	MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,719.07 339.28	
27 15 23 00-0446	MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,894.09 325.74	
27 15 23 00-0447	MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,456.04 395.55	
27 15 23 00-0448	MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,044.17 264.78	
27 15 23 00-0449	50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)		
27 15 23 00-0450	MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,873.01 -4.02	
27 15 23 00-0451	MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,951.50 41.21	
27 15 23 00-0452	MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,115.93 106.57	
27 15 23 00-0453	MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,340.16 -64.62	
27 15 23 00-0454	MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,433.59 -34.32	
27 15 23 00-0455	MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,751.26 -16.15	
27 15 23 00-0456	MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,423.95 -87.85	
27 15 23 00-0457	MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,414.31 0.01	
27 15 23 00-0458	MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,516.78 -200.97	
27 15 23 00-0459	MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,282.91 -100.97	
27 15 23 00-0460	MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,273.27 464.14	
27 15 23 00-0461	MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,571.65 -208.04	
27 15 23 00-0462	MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,851.34 -278.22	
27 15 23 00-0463	MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	15,131.03 -330.75	
27 15 23 00-0464	62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)		
27 15 23 00-0465	MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,814.69 117.24	
27 15 23 00-0466	MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,927.41 125.73	
27 15 23 00-0467	MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,039.96 134.01	
27 15 23 00-0468	MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,179.00 152.56	
27 15 23 00-0469	MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,378.11 159.09	
27 15 23 00-0470	MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,730.15 169.55	
27 15 23 00-0471	MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,063.62 194.99	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0472	MLF	36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,701.85 216.67	
27 15 23 00-0473	MLF	48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,448.34 249.13	
27 15 23 00-0474	MLF	60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,137.82 268.08	
27 15 23 00-0475	MLF	72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,865.54 303.42	
27 15 23 00-0476	MLF	96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,337.37 341.16	
27 15 23 00-0477	MLF	120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,832.83 387.17	
27 15 23 00-0478	MLF	144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,351.37 355.64	
27 15 23 00-0479		Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0480		Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0481	MLF	2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,246.99 216.66	
27 15 23 00-0482	MLF	4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,313.54 310.97	
27 15 23 00-0483	MLF	6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,333.52 298.02	
27 15 23 00-0484	MLF	8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,413.25 248.09	
27 15 23 00-0485	MLF	12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,438.13 296.51	
27 15 23 00-0486	MLF	18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,549.87 281.21	
27 15 23 00-0487	MLF	24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,650.06 284.55	
27 15 23 00-0488	MLF	36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,809.88 360.84	
27 15 23 00-0489	MLF	48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,035.05 365.55	
27 15 23 00-0490	MLF	60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,259.34 378.71	
27 15 23 00-0491	MLF	72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,563.43 325.76	
27 15 23 00-0492	MLF	96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,055.30 424.84	
27 15 23 00-0493	MLF	120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,698.81 418.33	
27 15 23 00-0494	MLF	144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,225.40 334.16	
27 15 23 00-0495		50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0496	MLF	2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,471.37 306.60	
27 15 23 00-0497	MLF	4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,704.39 171.70	
27 15 23 00-0498	MLF	6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,010.99 36.79	
27 15 23 00-0499	MLF	8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,158.15 61.32	
27 15 23 00-0500	MLF	12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,305.32 61.32	
27 15 23 00-0501	MLF	18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,648.71 73.58	
27 15 23 00-0502	MLF	24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,955.31 282.07	
27 15 23 00-0503	MLF	36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,617.57 551.88	
27 15 23 00-0504	MLF	48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,279.83 919.80	
27 15 23 00-0505	MLF	60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,831.71 1,011.78	
27 15 23 00-0506	MLF	72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,555.28 1,287.72	
27 15 23 00-0507	MLF	96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,063.75 1,900.92	
27 15 23 00-0508	MLF	120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,824.12 1,434.89	
27 15 23 00-0509	MLF	144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,774.10 3,495.24	



Communications			27
Structured Cabling			27 10
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0479)		
27 15 23 00-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	1,890.81 147.16	
27 15 23 00-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	2,001.18 159.09	
27 15 23 00-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	2,111.38 170.99	
27 15 23 00-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	2,221.75 182.89	
27 15 23 00-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	2,507.67 196.71	
27 15 23 00-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	2,788.04 230.52	
27 15 23 00-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	3,131.59 250.38	
27 15 23 00-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	3,796.56 309.36	
27 15 23 00-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	4,473.96 354.44	
27 15 23 00-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	5,153.69 394.69	
27 15 23 00-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	5,868.42 440.14	
27 15 23 00-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	7,318.79 518.98	
27 15 23 00-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	8,864.03 536.50	
27 15 23 00-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	10,287.89 553.84	
27 15 23 00-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0338)		
27 15 23 00-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0525)		
27 15 23 00-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0526)		
27 15 23 00-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,399.63 183.37	3,632.68
27 15 23 00-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,433.54 188.12	3,632.68
27 15 23 00-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,467.90 192.74	3,632.68
27 15 23 00-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,501.82 189.05	3,632.68
27 15 23 00-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,569.68 220.40	3,632.68
27 15 23 00-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,703.68 229.13	3,632.68
27 15 23 00-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,805.87 253.25	3,632.68
27 15 23 00-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	11,048.85 242.83	3,632.68
27 15 23 00-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	11,261.33 282.11	3,632.68
27 15 23 00-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	11,436.99 270.52	3,632.68
27 15 23 00-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	11,656.11 309.29	3,632.68
27 15 23 00-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	12,231.21 314.13	3,632.68
27 15 23 00-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	12,848.22 374.84	3,632.68
27 15 23 00-0541 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	12,996.14 402.49	3,632.68
27 15 23 00-0542 Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0338) Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0543 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0542)		
27 15 23 00-0544 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	3,994.82	812.86
27 15 23 00-0545 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,987.72	812.86
27 15 23 00-0546 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	7,199.57	812.86
27 15 23 00-0547 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0542)		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0548 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	5,261.22	812.86
27 15 23 00-0549 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	5,825.48	812.86
27 15 23 00-0550 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	8,293.68	812.86
27 15 23 00-0551 Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338) Note: Singlemode and multimode combination cable. Excludes trenching.		
27 15 23 00-0552 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0551)		
27 15 23 00-0553 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	3,859.34	745.13
27 15 23 00-0554 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	4,852.24	745.13
27 15 23 00-0555 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	7,064.09	745.13
27 15 23 00-0556 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0551)		
27 15 23 00-0557 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	5,125.74	745.13
27 15 23 00-0558 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	5,690.00	745.13
27 15 23 00-0559 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	8,158.20	745.13
27 15 23 00-0560 Network Communications Cabling And Related Products (27 15 23)		
27 15 23 00-0561 EA AC Surge Suppression Assembly	535.23	16.93
Note: Liebert AccuVar Transient Voltage Surge Protection (TVSS) device or Atlantic Scientific Zone Defender Pro Model # 16100. Includes testing.		
27 15 23 00-0562 EA Single Mode Fiber Optic To Ethernet Media Converter	902.98	20.32
Note: Transition Networks part no. J/E-PSW-FX-02(SM). Includes testing.		
27 15 23 00-0563 EA 6' Long Single Mode Patch Cord With SC duplex Connectors At Both Ends	47.82	2.17
Note: Includes testing.		
27 15 23 00-0564 EA KVM (Keyboard, Video, Mouse) Cable	109.10	2.71
Note: Raritan CCP40. Includes testing.		
27 15 23 00-0565 EA 6' Long USB (Universal Serial Bus) Cable	16.25	2.17
Note: Includes testing.		
27 15 23 00-0566 EA 10' Long USB (Universal Serial Bus) Cable	19.26	2.71
Note: Includes testing.		
27 15 23 00-0567 EA 6' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End	21.07	2.17
Note: Includes testing.		
27 15 23 00-0568 EA 10' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End	24.08	2.71
Note: Includes testing.		
27 15 23 00-0569 EA 6' Long Single Mode Patch Cord With SC Connectors At Both Ends	35.18	2.17
Note: Includes testing.		
27 15 23 00-0570 EA 20' Long Single Mode Patch Cord With SC Duplex Connectors At Both Ends	76.48	2.71
Note: Includes testing.		
27 15 23 00-0571 EA 6' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other	60.79	2.17
Note: Includes testing.		
27 15 23 00-0572 EA 20' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other	76.48	2.71
Note: Includes testing.		
27 15 23 00-0573 EA 6' Long Single Mode Patch Cord With SC Duplex Connector At One End And FC Connectors At The Other	114.02	2.17
Note: Includes testing.		
27 15 23 00-0574 EA 6' Long Single Mode Patch Cord With SC Connectors At One End And FC Connectors At The Other	114.02	2.17
Note: Includes testing.		
27 15 23 00-0575 LF 6 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	1.16	
Note: Corning part no. 006ESF-T4101D20. Includes testing.		
27 15 23 00-0576 LF 12 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	8.24	
Note: Corning part no. 012ESF-T4101D20. Includes testing.		
27 15 23 00-0577 LF 24 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	10.06	
Note: Corning part no. 024EW4-T4101D20. Includes testing.		
27 15 23 00-0578 LF 72 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	16.53	
Note: Corning part no. 072EW4-T4101D20. Includes testing.		
27 15 23 00-0579 LF 144 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	25.85	
Note: Corning part no. 144EW4-T4101D20. Includes testing.		
27 15 23 00-0580 LF 36 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable	16.56	
Note: Corning part no. 036E81-61131-24. Includes testing.		
27 15 23 00-0581 LF 72 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable	25.88	
Note: Corning part no. 072E81-T3131-24. Includes testing.		
27 15 23 00-0582 EA Aerial Storage Unit	142.66	13.55
Note: Alcola part no. FSU-16. Includes testing.		
27 15 23 00-0583 EA Spider Fan-Out Kits With SC Connectors	174.32	13.55
Note: Corning part no. SFK-P-12-900-S.		
27 15 23 00-0584 LF Ultraviolet Resistant Rated Category 6 Cable	1.57	0.25
Note: Includes RJ 45 connectors at both ends. CommScope part no. 6NF4+. Includes testing.		
27 15 23 00-0585 LF RG11 Coaxial Cable NEC CMR	5.49	2.55
Note: Corning part no. SFK-P-12-900-S.		
27 15 23 00-0586 LF Outdoor Rated UL Type CL2	5.56	
Note: Aluminum foil-polyester tape 100% shield coverage twisted (6 twists per foot) single pair 19 X 27 stranding tin copper coated #14 AWG conductor Audio, Control, and Instrumentation Cable with polyethylene insulation and PVC jacket. Belden 8720. Includes testing.		



Communications			27
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Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0587	LF	Indoor Plenum Rated UL Type CMP Note: 100% aluminum foil shield coverage twisted (6 twists per foot) 4 pairs 7X32 stranding tin copper coated #24 AWG conductor Computer Cable with Fluorinated Ethylene Propylene insulation and plenum rated jacket. Belden 82504. Includes testing.	8.08	2.55
27 15 33 Communications Coaxial Horizontal Cabling (27 15)				
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.				
27 15 33 00-0001		Indoor Coaxial Cable (27 15 33)		
27 15 33 00-0002		Coaxial, Indoor Telecommunications Cable (27 15 33 00-0001)		
27 15 33 00-0003		Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 15 33 00-0002)		
27 15 33 00-0004	MLF	RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,949.04	569.01
27 15 33 00-0005	MLF	RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	4,803.36	569.01
27 15 33 00-0006	MLF	RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,565.71	650.29
27 15 33 00-0007	MLF	RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120)	6,063.24	650.29
27 15 33 00-0008		Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 15 33 00-0002)		
27 15 33 00-0009	MLF	RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108)..... For Work In Restricted Working Space, Add	2,897.39 569.01	1,138.02
27 15 33 00-0010	MLF	RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108)..... For Work In Restricted Working Space, Add	5,751.71 569.01	1,138.02
27 15 33 00-0011	MLF	RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114)..... For Work In Restricted Working Space, Add	2,649.52 650.29	1,300.59
27 15 33 00-0012	MLF	RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120)..... For Work In Restricted Working Space, Add	7,147.05 650.29	1,300.59
27 15 33 00-0013		Coaxial Distribution Cable (27 15 33 00-0001)		
Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal. For tasks installed in conduit, tasks exclude conduit.				
27 15 33 00-0014	MLF	RG-6/U Coaxial Distribution Cable, Installed In Conduit.....	3,299.40	396.16
27 15 33 00-0015	MLF	RG-6A/U Coaxial Distribution Cable, Installed In Conduit	12,900.98	396.16
27 15 33 00-0016	MLF	RG-8/U Coaxial Distribution Cable, Installed In Conduit.....	6,661.07	418.45
27 15 33 00-0017	MLF	RG-8A/U Coaxial Distribution Cable, Installed In Conduit	8,464.66	418.45
27 15 33 00-0018	MLF	RG-11/U Coaxial Distribution Cable, Installed In Conduit.....	7,448.60	495.20
27 15 33 00-0019	MLF	RG-11A/U Coaxial Distribution Cable, Installed In Conduit	10,936.60	495.20
27 15 33 00-0020	MLF	RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	23,902.01	693.28
27 15 33 00-0021	MLF	RG-58/U Coaxial Distribution Cable, Installed In Conduit.....	2,397.93	346.64
27 15 33 00-0022	MLF	RG-58A/U Coaxial Distribution Cable, Installed In Conduit	2,755.32	346.64
27 15 33 00-0023	MLF	RG-58C/U Coaxial Distribution Cable, Installed In Conduit	3,384.89	346.64
27 15 33 00-0024	MLF	RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	8,363.77	693.28
27 15 33 00-0025	MLF	RG-59/U Coaxial Distribution Cable, Installed In Conduit.....	4,067.64	346.64
27 15 33 00-0026	MLF	RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	10,236.99	693.28
27 15 33 00-0027	MLF	1/2" Hard Line Coaxial, Installed In Conduit	3,273.24	495.20
27 15 33 00-0028		Outdoor Coaxial Cable (27 15 33)		
27 15 33 00-0029		Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 15 33 00-0028)		
Note: Corrugated steel armor jacket.				
27 15 33 00-0030	MLF	TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	8,607.84	1,853.54
27 15 33 00-0031	MLF	TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial	5,297.91	1,303.74
27 15 33 00-0032	MLF	TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial	4,793.91	769.17
27 15 33 00-0033	MLF	TV Coaxial Cable Drop 1/4" Diameter, Direct Burial	2,290.41	769.17
27 15 33 00-0034	MLF	1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	3,372.11	1,201.86
27 15 43 Communications Faceplates and Connectors (27 15)				
27 15 43 00-0001		Wall Mounted Telephone Faceplates (27 15 43)		
Note: Includes standard telephone mounting studs.				
27 15 43 00-0002		Plastic Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0003	EA	Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones.....	43.05	16.93
27 15 43 00-0004		Stainless Steel Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0005	EA	Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones..... Note: Requires one snap-in modular jack.	41.33	6.77
27 15 43 00-0006	EA	Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	71.38	16.93
27 15 43 00-0007	EA	Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	83.02	20.32
27 15 43 00-0008	EA	Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones..... Note: Requires one snap-in modular jack.	39.70	6.77
27 15 43 00-0009	EA	Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	64.53	16.93
27 15 43 00-0010	EA	Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	76.35	20.32

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0011		Plastic Communications Faceplates (27 15 43) Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0012	EA	One Port, Single Gang, Plastic Communication Faceplate With Station ID	11.24	3.40
27 15 43 00-0013	EA	Two Port, Single Gang, Plastic Communication Faceplate With Station ID	11.24	3.40
27 15 43 00-0014	EA	Three Port, Single Gang, Plastic Communication Faceplate With Station ID	11.24	3.40
27 15 43 00-0015	EA	Four Port, Single Gang, Plastic Communication Faceplate With Station ID	11.24	3.40
27 15 43 00-0016	EA	Six Port, Single Gang, Plastic Communication Faceplate With Station ID	11.24	3.40
27 15 43 00-0017	EA	Four Port, Double Gang, Plastic Communications Faceplate With Station ID	18.37	3.40
27 15 43 00-0018	EA	Six Port, Double Gang, Plastic Communication Faceplate With Station ID	18.37	3.40
27 15 43 00-0019	EA	Eight Port, Double Gang, Plastic Communication Faceplate With Station ID	18.37	3.40
27 15 43 00-0020	EA	Nine Port, Double Gang, Plastic Communication Faceplate With Station ID	18.37	3.40
27 15 43 00-0021	EA	Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID	18.37	3.40
27 15 43 00-0022		Stainless Steel Communications Faceplates (27 15 43) Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0023		Stainless Steel Communications Faceplates (27 15 43 00-0022)		
27 15 43 00-0024	EA	One Port, Single Gang, Stainless Steel Communications Faceplate	22.06	3.40
27 15 43 00-0025	EA	Two Port, Single Gang, Stainless Steel Communications Faceplate	22.06	3.40
27 15 43 00-0026	EA	Three Port, Single Gang, Stainless Steel Communications Faceplate	22.06	3.40
27 15 43 00-0027	EA	Four Port, Single Gang, Stainless Steel Communications Faceplate	23.64	3.40
27 15 43 00-0028	EA	Six Port, Single Gang, Stainless Steel Communications Faceplate	23.64	3.40
27 15 43 00-0029	EA	Four Port, Double Gang, Stainless Steel Communications Faceplate	32.17	3.40
27 15 43 00-0030	EA	Six Port, Double Gang, Stainless Steel Communications Faceplate	33.17	3.40
27 15 43 00-0031	EA	Eight Port, Double Gang, Stainless Steel Communications Faceplate	38.52	3.40
27 15 43 00-0032	EA	Nine Port, Double Gang, Stainless Steel Communication Faceplate	38.52	3.40
27 15 43 00-0033	EA	Twelve Port, Double Gang, Stainless Steel Communications Faceplate	38.52	3.40
27 15 43 00-0034		Stainless Steel Communications Faceplates With Station ID (27 15 43 00-0022)		
27 15 43 00-0035	EA	One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.98	3.40
27 15 43 00-0036	EA	Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.98	3.40
27 15 43 00-0037	EA	Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.98	3.40
27 15 43 00-0038	EA	Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.98	3.40
27 15 43 00-0039	EA	Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	31.98	3.40
27 15 43 00-0040	EA	Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	69.87	3.40
27 15 43 00-0041	EA	Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	69.87	3.40
27 15 43 00-0042	EA	Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	69.87	3.40
27 15 43 00-0043	EA	Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID	69.87	3.40
27 15 43 00-0044	EA	Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	69.87	3.40
27 15 43 00-0045		Surface Mount Plastic Communication Boxes (27 15 43) Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0046	EA	One Port, Surface Mount Plastic Communication Box With Station ID	39.59	16.97
27 15 43 00-0047	EA	Two Port, Surface Mount Plastic Communication Box With Station ID	40.59	16.97
27 15 43 00-0048	EA	Four Port, Surface Mount Plastic Communication Box With Station ID	47.43	16.97
27 15 43 00-0049	EA	Six Port, Surface Mount Plastic Communication Box With Station ID	55.57	16.97
27 15 43 00-0050	EA	Twelve Port, Surface Mount Plastic Communication Box With Station ID	64.10	16.97
27 15 43 00-0051		Snap-In Modular Jacks (27 15 43) Note: Includes termination.		
27 15 43 00-0052	EA	Cat 3, Snap-In Modular Jack	38.47	13.58
27 15 43 00-0053	EA	Category 5E, Snap-In Modular Jack	40.65	13.58
27 15 43 00-0054	EA	Category 5E Shielded, Snap-In Modular Jack	47.20	13.58
27 15 43 00-0055	EA	Cat 6, Snap-In Modular Jack	47.20	13.58
27 15 43 00-0056	EA	Cat 6 Shielded, Snap-In Modular Jack	54.54	13.58
27 15 43 00-0057	EA	Cat 6A, Snap-In Modular Jack	55.65	13.58
27 15 43 00-0058	EA	Voice, RJ-11, Snap-In Modular Jack	26.87	6.78
27 15 43 00-0059	EA	SC Type Fiber Optic, Snap-In Modular Jack	43.43	13.58
27 15 43 00-0060	EA	ST Type Fiber Optic, Snap-In Modular Jack	48.98	13.58
27 15 43 00-0061	EA	LC Type Fiber Optic, Snap-In Modular Jack	59.90	13.58
27 15 43 00-0062	EA	Blank Fill In, Snap-In Modular Jack	7.81	3.40
27 15 43 00-0063	EA	Open Cable Pass Through Insert, Snap-In Modular Jack	9.12	3.40
27 15 43 00-0064	EA	Coaxial F-Type Coupler, Snap-In Modular Jack	32.46	10.18
		Note: Includes female to female connection.		
		<i>For Gold Bulkhead, Add</i>	2.12	
27 15 43 00-0065	EA	RCA Jack Pass-Through Coupler, Snap-In Modular Jack	32.86	10.18
		Note: Includes female to female connection.		
27 15 43 00-0066	EA	RCA Solder Coupler, Snap-In Modular Jack	63.63	13.58
27 15 43 00-0067	EA	RCA Jack With 110 Punch Down, Snap-In Modular Jack	79.70	13.58
27 15 43 00-0068	EA	3.5 m Mini Stereo Jack, Snap-In Modular Jack	40.06	13.58
27 15 43 00-0069	EA	MT-RJ Pass-Through Coupler, Snap-In Modular Jack	44.29	6.78
27 15 43 00-0070	EA	BNC Connector, Snap-In Modular Jack	46.60	13.58
27 15 43 00-0071	EA	S-Video With 110 Punch Down, Snap-In Modular Jack	52.55	13.58
27 15 43 00-0072	PR	Speaker Connectors, Snap-In Modular Jack	68.98	20.36
		Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 15 43 00-0073	EA	USB Audio Video Connector, Snap-In Modular Jack	79.93	13.58



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Communications Horizontal Cabling		27 15	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 53		Communications Cable Innerduct (27 15)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.				
27 15 53 00-0001		Indoor Innerduct (27 15 53)		
27 15 53 00-0002		Indoor Innerduct, Installed In Conduit (27 15 53 00-0001)		
27 15 53 00-0003		Riser Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)		
27 15 53 00-0004	MLF	1" Riser Rated, Indoor Innerduct, Installed In Conduit.....	5,329.75	2,032.17
27 15 53 00-0005	MLF	1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit.....	6,899.92	2,709.56
27 15 53 00-0006	MLF	1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit.....	9,170.10	3,386.95
27 15 53 00-0007	MLF	2" Riser Rated, Indoor Innerduct, Installed In Conduit.....	10,713.34	4,064.33
27 15 53 00-0008		Plenum Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)		
27 15 53 00-0009	MLF	3/4" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	7,845.98	1,354.78
27 15 53 00-0010	MLF	1" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	8,790.09	2,032.17
27 15 53 00-0011	MLF	1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	11,110.13	2,709.56
27 15 53 00-0012	MLF	1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	14,274.76	3,386.95
27 15 53 00-0013	MLF	2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	17,177.98	4,064.33
27 15 53 00-0014		Indoor Innerduct, Installed Exposed (27 15 53 00-0001)		
27 15 53 00-0015		Riser Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0016	MLF	1" Riser Rated, Indoor Innerduct, Installed Exposed.....	6,684.53	2,709.56
		For Work In Restricted Working Space, Add.....	1,625.73	
27 15 53 00-0017	MLF	1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed.....	8,254.69	3,386.95
		For Work In Restricted Working Space, Add.....	2,032.16	
27 15 53 00-0018	MLF	1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed.....	10,524.88	4,064.33
		For Work In Restricted Working Space, Add.....	2,438.60	
27 15 53 00-0019	MLF	2" Riser Rated, Indoor Innerduct, Installed Exposed.....	12,068.11	4,741.72
		For Work In Restricted Working Space, Add.....	2,845.03	
27 15 53 00-0020		Plenum Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0021	MLF	3/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	9,200.76	2,032.17
27 15 53 00-0022	MLF	1" Plenum Rated, Indoor Innerduct, Installed Exposed.....	10,144.87	2,709.56
		For Work In Restricted Working Space, Add.....	1,625.73	
27 15 53 00-0023	MLF	1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	12,464.90	3,386.95
		For Work In Restricted Working Space, Add.....	2,032.16	
27 15 53 00-0024	MLF	1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	15,629.54	4,064.33
		For Work In Restricted Working Space, Add.....	2,438.60	
27 15 53 00-0025	MLF	2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	18,532.75	4,741.72
		For Work In Restricted Working Space, Add.....	2,845.03	
27 15 53 00-0026		Outdoor Innerduct (27 15 53)		
27 15 53 00-0027		Outdoor Innerduct, Installed In Conduit (27 15 53 00-0026)		
27 15 53 00-0028	MLF	1" Outdoor Innerduct, Installed In Conduit.....	5,006.66	2,032.17
27 15 53 00-0029	MLF	1-1/4" Outdoor Innerduct, Installed In Conduit.....	6,423.48	2,709.56
27 15 53 00-0030	MLF	1-1/2" Outdoor Innerduct, Installed In Conduit.....	8,206.76	3,386.95
27 15 53 00-0031	MLF	2" Outdoor Innerduct, Installed In Conduit.....	9,801.70	4,064.33
27 15 53 00-0032		Outdoor Innerduct, Buried In Trench (27 15 53 00-0026)		
27 15 53 00-0033	MLF	1" Outdoor Innerduct, Buried In Trench.....	3,651.89	
27 15 53 00-0034	MLF	1-1/4" Outdoor Innerduct, Buried In Trench.....	5,068.70	
27 15 53 00-0035	MLF	1-1/2" Outdoor Innerduct, Buried In Trench.....	6,851.99	
27 15 53 00-0036	MLF	2" Outdoor Innerduct, Buried In Trench.....	8,446.92	
27 16		Communications Connecting Cords, Devices, and Adapters (27 10)		
27 16 16		Communications Media Converters, Adapters, and Transceivers (27 16)		
27 16 16 00-0001		Fiber Optic Receivers (27 16 16)		
27 16 16 00-0002	EA	Fiber Optic Receiver, Range 6.2 Miles.....	1,587.12	67.74
27 16 16 00-0003	EA	Fiber Optic MM Dual Video Receiver, Manual Gain.....	1,204.98	133.44
		Note: With video presence Ind, RM.		
27 16 16 00-0004		Fiber Optic Transmitters (27 16 16)		
27 16 16 00-0005	EA	Fiber Optic Transmitter, Range 6.2 Miles.....	1,587.10	67.74
27 16 16 00-0006	EA	Fiber Optic MM Dual Video Transmitter Video Presence Indicator.....	1,204.98	133.44
27 16 16 00-0007		Fiber Optic Repeaters (27 16 16)		
		Note: Consist of transmitter and receiver, back-to-back. Excludes power source.		
27 16 16 00-0008	EA	Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power.....	1,722.57	135.48

27 Communications**27 10 Structured Cabling****27 16 Communications Connecting Cords, Devices, and Adapters**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 16 00-0009	EA	Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power	2,635.47	270.95
27 16 16 00-0010		Fiber Optic Transceivers (27 16 16)		
27 16 16 00-0011	EA	Fiber Optic Transceivers, 3,000 Miles Range	1,650.79	270.95
27 16 16 00-0012	EA	Fiber Optic Transceivers, Digital 2,000 Miles Range	1,650.79	270.95
27 16 16 00-0013	EA	Fiber Optic Ethernet Transceiver	2,196.38	406.44
27 16 16 00-0014	EA	Transceiver (Low Cost Bi- Directional).....	859.15	101.61
27 16 19		Communications Patch Cords, Station Cords, and Cross Connect Wire (27 16)		
27 16 19 00-0001		Cross Connect Wire (27 16 19)		
		Note: Up to 20' length.		
27 16 19 00-0002	EA	2-Pair Cross Connect Wire	21.81	
27 16 19 00-0003	EA	3-Pair Cross Connect Wire	29.23	
27 16 19 00-0004	EA	4-Pair Cross Connect Wire	36.55	
27 16 19 00-0005		Fiber Optic Patch Cords (27 16 19)		
27 16 19 00-0006		Simplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0007		Singlemode, Simplex Fiber Optic Patch Cables (27 16 19 00-0006)		
27 16 19 00-0008	EA	ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	59.73	
		For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0009	EA	ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	48.57	
		For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0010	EA	ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	63.07	
		For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0011	EA	SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	51.12	
		For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0012	EA	SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	59.26	
		For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0013	EA	LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	58.36	
		For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0014		Duplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0015		Singlemode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0016	EA	ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	104.56	
		For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0017	EA	ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	101.42	
		For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0018	EA	ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	112.60	
		For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0019	EA	SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	87.38	
		For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0020	EA	SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	103.63	
		For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0021	EA	LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	101.86	
		For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0022		Multimode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0023	EA	ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	78.78	
		For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0024	EA	ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	86.07	
		For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0025	EA	ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	86.82	
		For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0026	EA	ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	89.16	
		For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0027	EA	SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	79.09	
		For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0028	EA	SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	89.57	
		For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0029	EA	SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	105.39	
		For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0030	EA	MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	72.37	
		For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0031	EA	LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	88.21	
		For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0032		Fiber Optic Cable Pig Tail (27 16 19)		
27 16 19 00-0033	EA	Simplex Fiber Optic Cable Pig Tail	93.31	47.42
27 16 19 00-0034	EA	Duplex Fiber Optic Cable Pig Tail	119.76	47.42
27 16 19 00-0035		Ethernet Patch Cords (27 16 19)		
27 16 19 00-0036	EA	3' Category 5E Patch Cables With Boots.....	17.05	



Communications			27
Structured Cabling			27 10
Communications Connecting Cords, Devices, and Adapters			27 16

27

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0037	EA		5' Category 5E Patch Cables With Boots.....	18.57	
27 16 19 00-0038	EA		7' Category 5E Patch Cables With Boots.....	20.10	
27 16 19 00-0039	EA		10' Category 5E Patch Cables With Boots.....	29.28	
27 16 19 00-0040	EA		15' Category 5E Patch Cables With Boots.....	36.82	
27 16 19 00-0041	EA		25' Category 5E Patch Cables With Boots.....	48.41	
27 16 19 00-0042	EA		3' Category 6 Patch Cables With Boots.....	18.86	
27 16 19 00-0043	EA		5' Category 6 Patch Cables With Boots.....	22.72	
27 16 19 00-0044	EA		7' Category 6 Patch Cables With Boots.....	22.79	
27 16 19 00-0045	EA		10' Category 6 Patch Cables With Boots.....	27.44	
27 16 19 00-0046	EA		15' Category 6 Patch Cables With Boots.....	36.24	
27 16 19 00-0047	EA		25' Category 6 Patch Cables With Boots.....	45.27	
27 16 19 00-0048	EA		50' Category 6 Patch Cables With Boots.....	70.69	
27 16 19 00-0049	EA		100' Category 6 Patch Cables With Boots.....	123.09	
27 16 19 00-0050	EA		3' Category 6A Patch Cables With Boots.....	22.52	
27 16 19 00-0051	EA		5' Category 6A Patch Cables With Boots.....	23.82	
27 16 19 00-0052	EA		7' Category 6A Patch Cables With Boots.....	24.79	
27 16 19 00-0053	EA		10' Category 6A Patch Cables With Boots.....	29.65	
27 16 19 00-0054	EA		15' Category 6A Patch Cables With Boots.....	36.60	
27 16 19 00-0055	EA		25' Category 6A Patch Cables With Boots.....	44.98	
27 16 19 00-0056	EA		50' Category 6A Patch Cables With Boots.....	63.79	
27 16 19 00-0057	EA		100' Category 6A Patch Cables With Boots.....	111.05	
27 16 19 00-0058	EA		3' Category 5E Patch Cables With Plastic Arch.....	17.05	
27 16 19 00-0059	EA		5' Category 5E Patch Cables With Plastic Arch.....	18.57	
27 16 19 00-0060	EA		7' Category 5E Patch Cables With Plastic Arch.....	20.10	
27 16 19 00-0061	EA		10' Category 5E Patch Cables With Plastic Arch.....	29.28	
27 16 19 00-0062	EA		15' Category 5E Patch Cables With Plastic Arch.....	36.82	
27 16 19 00-0063	EA		25' Category 5E Patch Cables With Plastic Arch.....	48.41	
27 16 19 00-0064	EA		3' Category 6 Patch Cables With Plastic Arch.....	18.86	
27 16 19 00-0065	EA		5' Category 6 Patch Cables With Plastic Arch.....	22.72	
27 16 19 00-0066	EA		7' Category 6 Patch Cables With Plastic Arch.....	22.79	
27 16 19 00-0067	EA		10' Category 6 Patch Cables With Plastic Arch.....	27.44	
27 16 19 00-0068	EA		15' Category 6 Patch Cables With Plastic Arch.....	36.24	
27 16 19 00-0069	EA		25' Category 6 Patch Cables With Plastic Arch.....	45.27	
27 16 19 00-0070	EA		3' Category 6A Patch Cables With Plastic Arch.....	34.56	
27 16 19 00-0071	EA		5' Category 6A Patch Cables With Plastic Arch.....	36.86	
27 16 19 00-0072	EA		7' Category 6A Patch Cables With Plastic Arch.....	38.58	
27 16 19 00-0073	EA		10' Category 6A Patch Cables With Plastic Arch.....	44.55	
27 16 19 00-0074	EA		15' Category 6A Patch Cables With Plastic Arch.....	54.23	
27 16 19 00-0075	EA		25' Category 6A Patch Cables With Plastic Arch.....	69.03	

27 20 Data Communications⁽²⁷⁾

27 21 Data Communications Network Equipment^(27 20)

Note: Includes testing of new devices and certification.

27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems

^(27 21)

27 21 16 00-0001 Fiber Optic Modems^(27 21 16)

27 21 16 00-0002	EA	Fiber Optic Modems, Range 6.2 Miles.....	2,961.28	270.95
27 21 16 00-0003	EA	Fiber Optic Modem, Range 3.1 Miles, 12 Channel.....	5,985.50	270.95

27 21 16 00-0004 Ethernet Hubs and Switches^(27 21 16)

27 21 16 00-0005	EA	16 Port Managed Hub With Fiberport And Standard Management.....	4,363.38	203.66
27 21 16 00-0006	EA	16 Port Unmanaged Hub.....	731.45	135.78
27 21 16 00-0007	EA	12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E).....	6,003.69	135.78
27 21 16 00-0008	EA	Power Supply (Cisco PWR-IE170W-PC-AC).....	1,778.81	67.89

27 21 16 00-0009 Network Equipment^(27 21 16)

27 21 16 00-0010 Communications Entrance Protection^(27 21 16 00-0009)

27 21 16 00-0011	EA	100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C).....	1,245.43	101.83
Note: Excludes terminations.				
27 21 16 00-0012	EA	Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S).....	15.02	1.36

27 21 16 00-0013 Communications Cabinets, Racks, Frames And Enclosures^(27 21 16 00-0009)

27 21 16 00-0014	EA	19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736).....	1,512.18	101.83
For Fan Kit (Chatsworth 12804-701), Add			210.20	
27 21 16 00-0015	EA	10 Outlet, 125 Volt, 20 Amperes, Telecommunications Cabinet Power Strip (Chatsworth 13239-757).....	1,379.61	6.78

27 21 16 00-0016 Communications Termination Blocks And Patch Panels^(27 21 16 00-0009)

27 21 16 00-0017 Communications Termination Blocks^(27 21 16 00-0016)

27 21 16 00-0018	EA	4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810).....	333.80	20.32
27 21 16 00-0019	EA	5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802).....	311.11	20.32
27 21 16 00-0020	EA	4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869).....	736.64	20.32
27 21 16 00-0021	EA	5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851).....	685.59	20.32

27 Communications**27 20 Data Communications****27 21 Data Communications Network Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0022 EA 110 Connector System Mounting Brackets (CommScope 107535593).....	109.10	20.32
27 21 16 00-0023 EA 110 Connector System Mounting Brackets (CommScope 107535585).....	117.35	20.32
27 21 16 00-0024 EA 110 Connector System Mounting Brackets (CommScope 107098816).....	132.79	20.32
27 21 16 00-0025 Communications Copper Patch Panels (27 21 16 00-0016) Note: Excludes cabinet and terminations.		
27 21 16 00-0026 EA 24 Port, Category 5E Patch Panel (CommScope 108208919).....	337.53	44.13
27 21 16 00-0027 EA 48 Port, Category 5E Patch Panel (CommScope 108208935).....	607.17	54.31
27 21 16 00-0028 EA 24 Port, Category 6 Patch Panel (CommScope 760062372).....	493.04	44.13
27 21 16 00-0029 EA 48 Port, Category 6 Patch Panel (CommScope 760062380).....	911.74	54.31
27 21 16 00-0030 Communications Optical Fiber Patch Panels (27 21 16 00-0016)		
27 21 16 00-0031 Closet Connector Housings (27 21 16 00-0030)		
27 21 16 00-0032 EA 48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U).....	402.55	27.16
Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0033 EA 96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U).....	468.41	27.16
Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0034 EA 288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U).....	581.98	27.16
Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0035 EA SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91).....	101.21	13.58
27 21 16 00-0036 EA SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59).....	134.35	13.58
27 21 16 00-0037 EA SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56).....	112.91	13.58
27 21 16 00-0038 EA SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C).....	145.05	13.58
27 21 16 00-0039 Communications Cable Management (27 21 16 00-0009)		
27 21 16 00-0040 Horizontal Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0041 EA 1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE).....	171.71	27.16
27 21 16 00-0042 EA 3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E).....	177.80	27.16
27 21 16 00-0043 Vertical Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0044 EA 6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703).....	1,059.27	67.89
27 21 16 00-0045 EA 19" Width x 84" Height, Universal Rack (Chatsworth 48353-703).....	1,098.67	67.89
27 21 16 00-0046 EA 23" Width x 84" Height, Universal Rack (Chatsworth 48383-703).....	1,187.28	67.89
27 21 16 00-0047 Communications Patch Cords, Station Cords, And Cross Connect Wire (27 21 16 00-0009)		
27 21 16 00-0048 Premise Cross-Connect Wire (27 21 16 00-0047)		
27 21 16 00-0049 LF 1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973).....	1.39	0.68
27 21 16 00-0050 Pathways For Communications Systems (27 21 16 00-0009)		
27 21 16 00-0051 Conduits And Back Boxes For Communication Systems (27 21 16 00-0050)		
27 21 16 00-0052 Flexible Conduit For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0053 CLF 1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson DF4X1C).....	601.24	243.86
27 21 16 00-0054 CLF 1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson CF4X1C).....	919.46	243.86
27 21 16 00-0055 Tube Cables For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0056 Outdoor/All-Dielectric Tube Cables (27 21 16 00-0055)		
27 21 16 00-0057 CLF Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX).....	412.11	162.57
27 21 16 00-0058 CLF Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TRX).....	595.22	203.21
27 21 16 00-0059 CLF Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX).....	942.57	243.86
27 21 16 00-0060 Indoor/Riser Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0061 CLF Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX).....	460.97	162.57
27 21 16 00-0062 CLF Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX).....	555.92	182.89
27 21 16 00-0063 CLF Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX).....	629.15	203.21
27 21 16 00-0064 CLF Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX).....	1,095.94	243.86
27 21 16 00-0065 Indoor/Plenum Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0066 CLF Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX).....	359.17	162.57
27 21 16 00-0067 CLF Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2).....	484.04	162.57
27 21 16 00-0068 CLF Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2).....	713.36	182.89
27 21 16 00-0069 CLF Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2).....	1,007.83	203.21
27 21 16 00-0070 CLF Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2).....	2,948.64	243.86
27 21 16 00-0071 Unjacketed Single Tube Cables (27 21 16 00-0055)		
27 21 16 00-0072 CLF Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX).....	321.17	162.57



Communications		27	27
Data Communications		27 20	
Data Communications Network Equipment		27 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0073 Multimode Fiber Bundles (27 21 16 00-0055) Note: Includes optical fiber cables.		
27 21 16 00-0074 CLF 2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6)	127.44	48.77
27 21 16 00-0075 CLF 4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6)	180.37	48.77
27 21 16 00-0076 CLF 6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6)	237.38	48.77
27 21 16 00-0077 CLF 12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6)	411.11	48.77
27 21 16 00-0078 CLF 18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6)	588.88	56.90
27 21 16 00-0079 CLF 24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6)	762.62	56.90
27 21 16 00-0080 Singlemode Fiber Bundles (27 21 16 00-0055) Note: Includes optical fiber cables.		
27 21 16 00-0081 CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX)	116.58	48.77
27 21 16 00-0082 CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX)	139.65	48.77
27 21 16 00-0083 CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX)	158.66	48.77
27 21 16 00-0084 CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX)	195.30	48.77
27 21 16 00-0085 CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX)	290.28	56.90
27 21 16 00-0086 CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX)	373.07	56.90
27 21 16 00-0087 Tube Distribution Cabinets (27 21 16 00-0055)		
27 21 16 00-0088 EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU)	241.33	67.89
Note: Up to six 7-tube cables or two 19-tube cables.		
27 21 16 00-0089 Modular Fiber Termination Cabinets (27 21 16 00-0055)		
27 21 16 00-0090 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM)	294.56	67.89
27 21 16 00-0091 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM)	311.39	67.89
27 21 16 00-0092 Tube Distribution Accessories (27 21 16 00-0055)		
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA)	15.47	6.78
27 21 16 00-0094 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2)	16.65	6.78
27 21 16 00-0095 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB)	19.69	6.78
27 21 16 00-0096 Communications Optical Fiber Cabling (27 21 16 00-0009)		
27 21 16 00-0097 Communications Optical Fiber Cable Splicing And Terminations (27 21 16 00-0096)		
27 21 16 00-0098 Field Installed Fiber Connectors (27 21 16 00-0097)		
27 21 16 00-0099 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42)	39.47	10.18
27 21 16 00-0100 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41)	35.58	10.18
27 21 16 00-0101 Buffer Tube Fan-Out Kits (27 21 16 00-0097)		
27 21 16 00-0102 Buffer Tube Breakout Kits (Sumitomo) (27 21 16 00-0101) Note: Includes 900 micron tubing.		
27 21 16 00-0103 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02)	287.24	135.48
27 21 16 00-0104 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04)	291.31	135.48
27 21 16 00-0105 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06)	294.91	135.48
27 21 16 00-0106 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12)	306.08	135.48
27 21 16 00-0107 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18)	321.36	135.48
27 21 16 00-0108 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24)	332.71	135.48
27 21 16 00-0109 Buffer Tube Fan-Out Kits (Corning) (27 21 16 00-0101)		
27 21 16 00-0110 EA 12 Fiber, 25" Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12)	289.12	135.48
27 21 16 00-0111 EA 12 Fiber, 25" Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12)	329.45	135.48
27 21 16 00-0112 Communications Copper Cabling (27 21 16 00-0009)		
27 21 16 00-0113 Copper Communications Cable Splicing And Terminations (27 21 16 00-0112)		
27 21 16 00-0114 Copper Communications Cable Splice Cases (27 21 16 00-0113)		
27 21 16 00-0115 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626)	1,318.27	270.95
27 21 16 00-0116 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630)	1,540.16	270.95
27 21 16 00-0117 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219)	2,277.47	270.95
27 21 16 00-0118 Modular Splice Connectors (27 21 16 00-0113)		
27 21 16 00-0119 EA 25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25)	146.24	67.74
27 21 16 00-0120 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25)	143.85	67.74
27 21 16 00-0121 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25)	146.30	67.74
27 21 16 00-0122 EA 25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25)	145.96	67.74

27 Communications**27 20 Data Communications****27 21 Data Communications Network Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**27 21 26 Data Communications Network Management (27 21)****27 21 26 00-0001 Data Communications Network Management (27 21 26)**

27 21 26 00-0002	EA	3 Port, Terminal/Serial Device Server (Comtrol 99560-9).....	734.99	33.87
27 21 26 00-0003	EA	2 Port, Terminal/Serial Device Server (Comtrol 99550-0).....	565.01	33.87
27 21 26 00-0004	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99445-9).....	789.58	33.87
27 21 26 00-0005	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99448-0).....	1,239.88	33.87
27 21 26 00-0006	EA	24 Watt, Din Rail Mountable, Power Adapter (Comtrol PS1020).....	114.94	
27 21 26 00-0007	EA	Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2).....	547.43	20.32
27 21 26 00-0008	EA	Sennetech Code Translator (Pelco SCT_100_AD232).....	913.04	33.87
27 21 26 00-0009	EA	VPN Router (Cisco 819HG).....	5,460.48	434.48
27 21 26 00-0010	EA	Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC).....	3,918.90	434.48
27 21 26 00-0011	EA	WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+).....	20,286.09	162.57
27 21 26 00-0012	EA	SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis, 2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV).....	635.25	
27 21 26 00-0013	EA	Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8).....	13,792.12	162.57
27 21 26 00-0014	EA	Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2).....	29,913.95	162.57
27 21 26 00-0015	EA	Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E).....	704.66	13.58
27 21 26 00-0016	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV).....	5,166.51	16.93
27 21 26 00-0017	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2).....	4,480.58	16.93
27 21 26 00-0018	EA	13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US).....	80.45	6.78
27 21 26 00-0019	EA	1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD=).....	260.86	67.74
27 21 26 00-0020	EA	Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850-24TS).....	3,968.62	162.57
27 21 26 00-0021	EA	SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS).....	835.83	
27 21 26 00-0022	EA	North America AC Type A Power Cable (Cisco CAB-TA-NA).....	27.05	6.78
27 21 26 00-0023	EA	350 Watt AC Power Supply (Cisco PWR-C1-350WAC).....	349.82	16.93
27 21 26 00-0024	EA	Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G).....	869.79	16.97
27 21 26 00-0025	EA	1' (30cm), Catalyst 3750X Stack Power Cable (Cisco CAB-SPWR-30CM).....	127.66	6.78
27 21 26 00-0026	EA	Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC).....	4,686.34	162.57
27 21 26 00-0027	EA	SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8).....	839.18	
27 21 26 00-0028	EA	IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA).....	744.34	16.93
27 21 26 00-0029	EA	IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IA).....	756.04	16.93
27 21 26 00-0030	EA	4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC).....	1,621.41	162.57
27 21 26 00-0031	EA	Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC).....	410.07	16.97
27 21 26 00-0032	EA	4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM).....	1,922.96	16.97
27 21 26 00-0033	EA	Router (CISCO IR829).....	1,723.90	67.89

27 21 29 Data Communications Switches and Hubs (27 21)**27 21 29 00-0001 Data Communications Multimedia Modular Patch Panels (27 21 29)**

Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 15 43 00-0051 for modular jacks.

27 21 29 00-0002	EA	12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded.....	110.60	6.77
27 21 29 00-0003	EA	16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	121.86	6.77
27 21 29 00-0004	EA	24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	143.65	6.77
27 21 29 00-0005	EA	36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	150.34	6.77
27 21 29 00-0006	EA	48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	164.74	8.47
27 21 29 00-0007	EA	24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	155.89	6.77
27 21 29 00-0008	EA	48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	195.62	8.47
27 21 29 00-0009	EA	Rack Mount Rear Cable Management Bar.....	71.60	8.47

27 21 33 Data Communications Wireless Access Points (27 21)**27 21 33 00-0001 Data Communications Wireless Access Points (27 21 33)**

27 21 33 00-0002	EA	Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU).....	5,290.06	203.21
27 21 33 00-0003	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1).....	12,691.68	203.21
27 21 33 00-0004	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9).....	12,691.68	203.21
27 21 33 00-0005	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA).....	2,077.73	203.21
27 21 33 00-0006	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR).....	2,437.31	227.57
27 21 33 00-0007	EA	Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G).....	6,798.04	227.57
27 21 33 00-0008	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G).....	10,322.65	227.57
27 21 33 00-0009	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G).....	10,322.65	227.57
27 21 33 00-0010	EA	50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50).....	2,119.10	75.85
27 21 33 00-0011	EA	100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100).....	2,148.69	75.85
27 21 33 00-0012	EA	Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G).....	201.69	37.93
27 21 33 00-0013	EA	FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM).....	1,838.87	
27 21 33 00-0014	EA	1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR).....	660.39	67.74
27 21 33 00-0015	EA	Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S222-WH).....	547.97	67.74
27 21 33 00-0016	EA	Cell LTE MIMO Antenna (Sierra Wireless 1810075).....	97.98	27.10
27 21 33 00-0017	EA	AirLink GX400 Power Adapter (Sierra Wireless 2700384).....	85.43	
27 21 33 00-0018	EA	AirLink GX400 Power Cable (Sierra Wireless 2000380).....	50.01	
27 21 33 00-0019	EA	Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL).....	352.70	67.74



Communications			27
Data Communications			27 20
Data Communications Network Equipment			27 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 33 00-0020	EA		Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S22-BL).....	354.87	67.74
27 21 33 00-0021	EA		2 Way, RF Power Divider, 790-920 MHZ (Telewave ANTPD28D)	483.15	67.89
27 21 33 00-0022	EA		Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	1,217.06	101.83
27 21 33 00-0023	EA		Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged).....	1,555.42	101.83
27 21 33 00-0024	EA		Magnetic Mount Cellular Antenna (Wilson Electronics 301125)	88.03	20.32
27 21 33 00-0025	EA		Yagi Antenna, 890-960 MHz, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K).....	333.04	75.85
27 21 33 00-0026	EA		Andrew® Omni Antenna, 890-960 MHz, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y).....	1,082.60	75.85
27 21 33 00-0027	EA		Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC)	5,309.69	67.89
27 21 33 00-0028	EA		Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	2,698.31	67.74

27 22 Data Communications Hardware (27 20)

27 22 19 Data Communications Servers (27 22)

27 22 19 00-0001 Network Communications Frames And Enclosures (27 22 19)

27 22 19 00-0002	EA	Communications Equipment Enclosure.....	22,925.12	407.33
Note: APX Enclosures, Inc. part number TCDD727236 or an approved equivalent. UL listed, 72" H x 72" W x 36" D, 0.0125" 5052 aluminum construction, polyester powder finish, ANSI 61 grey out/white in, dual swing rack 19/23", standard EIA spacing, tapped 12-24 adjustable channels on side, thermostat kit, fluorescent light kit, 3PT, latch on main door with pad lock provisions, plywood back panels, and insulation thru-out) with a 12,000 BTU air conditioning unit housed in a stainless steel enclosure.				
27 22 19 00-0003	EA	Wall Mounted Equipment Cabinet.....	1,513.80	135.78
Note: Mid-Atlantic DWR-24-22 PD.				
27 22 19 00-0004	EA	APX 2 Bay Communications Equipment Enclosure, 72" High x 72" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel.....	11,481.65	
Note: UI 508A Listed Enclosure, NEMA 4x (Two Bay) APX Double Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (1) Door with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on Both Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Lifting Ears, Door Gasket Seals, Removable Center Post, Continuous Stile Hinges/Hardware, (2) Fluorescent Light Fixtures with door activated switches, (12,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.				
27 22 19 00-0005	EA	APX 3 Bay Communications Equipment Enclosure, 72" High x 108" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel.....	41,250.33	
Note: UI 508A Listed Enclosure, NEMA 4x (Three Bay) APX Three Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (3) Doors with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on all three Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Two 33 RU Racks positioned inside left and right bays, Lifting Ears Door Gasket Seals, (2) Fixed Center Posts, Continuous Stile Hinges/Hardware, (3) Fluorescent Light Fixtures with door activated switches, (19,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.				

27 24 Data Communications Peripheral Data Equipment (27 20)

27 24 19 External Drives (27 24)

27 24 19 00-0001 Network Equipment (27 24 19)

27 24 19 00-0002	EA	19" Rack Mountable 110-24T Ethernet Switch.....	660.29	45.11
Note: 24 x 10/100Base-TX LAN with SFP (miniGBic) port, Nortel Networks Limited 110-24T Managed Business Ethernet Switch - 24 x 10/100Base-TX LAN model #NT5S01AEE5. Includes testing.				
27 24 19 00-0003	EA	19" Rack Mountable Station Access Router.....	3,438.11	237.08
Note: Nortel Network part number SR2101031E5. Includes testing.				
27 24 19 00-0004	EA	19" Rack Mount LCD Monitor.....	1,640.82	108.38
Note: Nortel Network part number SR2101031E5. Includes testing.				
27 24 19 00-0005	EA	1000VA UPS (Uninterruptible Power Supply).....	1,571.70	123.80
Note: APC SUA1000RM2U. Includes testing.				
27 24 19 00-0006	EA	1000VA UPS (Uninterruptible Power Supply).....	640.02	123.80
Note: APC BR1000. Includes testing.				
27 24 19 00-0007	EA	1200VA UPS (Uninterruptible Power Supply).....	656.85	123.80
Note: APC BR1200. Includes testing.				

27 30 Voice Communications (27)

27 32 Voice Communications Terminal Equipment (27 30)

Note: Includes testing of new devices and certification.

27 32 13 Telephone Sets (27 32)

27 32 13 00-0001 Interior Telephone Components (27 32 13)

27 32 13 00-0002	EA	Solid State Exchange Unit With Power Supply.....	8,224.26	1,237.99
27 32 13 00-0003	EA	Dial Telephone - Handset In Cabinet.....	985.92	101.20
27 32 13 00-0004	EA	Elevator Cab Telephone With Trailer Cable.....	501.90	108.52
27 32 13 00-0005	EA	Loud Ring Bell, 6".....	394.15	100.66
27 32 13 00-0006	EA	Audio/Visual Indicator.....	501.50	94.83
27 32 13 00-0007	EA	Administrative Telephone With Digital Display.....	522.08	85.08
27 32 13 00-0008	EA	Processing Unit For 16 Station System.....	2,592.84	694.05

27 Communications**27 30 Voice Communications****27 32 Voice Communications Terminal Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 32 13 00-0009 EA Handset For 16 Station System	368.29	69.09
27 32 13 00-0010 EA Handset In Cabinet, For 16 Station System	498.88	93.21
27 32 13 00-0011 MLF 20 Conductor Unshielded Cable, #22	3,352.24	1,493.91
27 32 13 00-0012 EA Power Supply For 16 Station System	465.22	184.39
27 32 13 00-0013 EA Intercom Terminal Board	412.10	207.56
27 32 13 00-0014 EA Power Supply For Five Station System, 24 Volt DC	483.44	184.39
27 32 13 00-0015 EA Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick	235.50	75.77
27 32 13 00-0016 EA Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep	735.10	166.76
27 32 13 00-0017 EA Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep	867.98	189.54
27 32 13 00-0018 EA Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep	1,052.60	224.32
27 32 13 00-0019 EA Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep	1,241.85	242.53
27 32 13 00-0020 EA Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep	1,934.61	275.95
27 32 13 00-0021 EA Ring Rung 3"	14.58	7.56
27 32 13 00-0022 EA G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID	36.45	13.41
27 32 13 00-0023 EA G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing	66.27	27.50

27 32 13 00-0024 Interior Telephone Accessories (27 32 13)

27 32 13 00-0025 EA Blank Telephone Receptacle, Exposed Devices - Complete	15.24	7.31
27 32 13 00-0026 EA 4-Pin Telephone Receptacle, Exposed Devices - Complete	33.70	28.18
27 32 13 00-0027 EA Dual Flush Mounted, Level 5, RJ-45 Jack, Complete	84.62	30.95
27 32 13 00-0028 EA Wall Mount, Level 5, RJ-45 Jack, Complete	79.57	30.95
27 32 13 00-0029 EA Terminating Strips, Inside	161.66	61.90
27 32 13 00-0030 EA Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete	69.50	31.83
27 32 13 00-0031 EA Ready Access Closure 3 To 25 Pair	195.42	74.65
27 32 13 00-0032 EA Ready Access Closure 25 To 100 Pair	229.78	83.46
27 32 13 00-0033 EA Termination Block With Bracket 25 Pair	74.92	25.06
27 32 13 00-0034 EA RJ-11 Telephone Receptacle, Concealed Devices - Complete	68.21	31.43
27 32 13 00-0035 EA Interior Protected Terminal 25 Pair	887.49	181.00
27 32 13 00-0036 EA Interior Protected Terminal 50 Pair	1,062.28	183.85
27 32 13 00-0037 EA Pedestal 6" x 6" x 50" 3 To 100 Pair	352.34	75.32
27 32 13 00-0038 EA Pedestal 8" x 8" x 50" 100 To 300 Pair	364.46	75.32
27 32 13 00-0039 EA Pedestal 10" x 10" x 43" 300 To 600 Pair	482.31	96.33
27 32 13 00-0040 EA Pedestal 10" x 16" x 439 600 Pair	1,009.45	173.54
27 32 13 00-0041 EA Entrance Protector Terminal 100 Pair	1,410.69	198.07
27 32 13 00-0042 EA Gas Protection Module	20.66	6.77
27 32 13 00-0043 EA Terminating Boxes, Outside With 3 Element Protectors, Per Pair	37.62	6.19

27 32 26 Ring-Down Emergency Telephones (27 32)**27 32 26 00-0001 Emergency Telephone (27 32 26)**

Note: Includes CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70 watt area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.

27 32 26 00-0002 EA Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s)	12,263.90	555.48
27 32 26 00-0003 EA Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d)	12,897.03	555.48
27 32 26 00-0004 EA Analog Speakerphone With Black Info Button And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2)	211.04	
27 32 26 00-0005 EA Analog Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2-K)	316.57	
27 32 26 00-0006 EA IP Speakerphone With Single Red Push For Help Button Code Blue Option (Code Blue IP5000 FP1)	791.42	
27 32 26 00-0007 EA IP Speakerphone With Back Info Button And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2)	1,076.33	
27 32 26 00-0008 EA IP Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2-K)	1,181.85	
27 32 26 00-0009 EA EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option	21.10	
27 32 26 00-0010 EA EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option	21.10	
27 32 26 00-0011 EA Directory, Second Opening Code Blue Option	189.94	
27 32 26 00-0012 EA Camera Enclosure With Color IP Camera, Second Opening Code Blue Option	2,004.93	
27 32 26 00-0013 EA HID Card Reader, Second Opening Code Blue Option	928.60	
27 32 26 00-0014 EA HID Card Reader And Color IP Camera, Second Opening Code Blue Option	3,007.39	
27 32 26 00-0015 EA IP Wireless Communication Code Blue Option	6,320.79	
Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016 EA Active Venting Code Blue Option	337.67	
27 32 26 00-0017 EA Night Charge Power Code Blue Option	2,944.08	
Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018 EA Power Transformer Kit, Alternate Incoming Power Code Blue Option	738.66	
27 32 26 00-0019 EA Overhead Camera Mount Code Blue Option	1,677.81	
Note: Excludes camera.		
27 32 26 00-0020 EA Custom Color For Overhead Camera Mount Code Blue Option	73.87	

27 32 26 00-0021 City Police Call System (27 32 26)



Communications			27
Voice Communications			27 30
Voice Communications Terminal Equipment			27 32

27

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 32 26 00-0022	Components (27 32 26 00-0021)	
27 32 26 00-0023	EA City Police Call System.....	956.98
27 32 26 00-0024	EA Concrete Foundation For Police Department Telephone Post	857.27

157.97
228.82

27 40 Audio-Video Communications (27)

27 41 Audio-Video Systems (27 40)

27 41 16 Integrated Audio-Video Systems and Equipment (27 41)

Note: Includes testing of new devices and certification.

27 41 16 00-0001	Television Distribution System (27 41 16)	
See CSI section 26 05 19 16-0012 for basic wiring.		
27 41 16 00-0002	Mounted Television Support (27 41 16 00-0001)	
27 41 16 00-0003	EA Ceiling Mounted Television Support, 19" To 20".....	532.71
27 41 16 00-0004	EA Ceiling Mounted Television Support, 19" To 20" With Rack	687.67
27 41 16 00-0005	EA Ceiling Mounted Television Support, 25" To 27".....	556.14
27 41 16 00-0006	EA Ceiling Mounted Television Support, 25" To 27" With Rack	711.10
27 41 16 00-0007	EA Wall Mounted Television Support, 13".....	422.08
27 41 16 00-0008	EA Wall Mounted Television Support, 13" With Rack.....	577.01
27 41 16 00-0009	EA Wall Mounted Television Support, 19" To 20".....	452.82
27 41 16 00-0010	EA Wall Mounted Television Support, 19" To 20" With Rack	607.76
27 41 16 00-0011	EA Wall Mounted Television Support, 25" To 27".....	483.57
27 41 16 00-0012	EA Wall Mounted Television Support, 25" To 27" With Rack	638.50
27 41 16 00-0013	Distribution System (27 41 16 00-0001)	
See CSI section 26 05 13 16-0001 for wire and cabling.		
27 41 16 00-0014	TV Distribution Rack (27 41 16 00-0013)	
27 41 16 00-0015	EA Steel Rack Cabinet With Shelves	1,866.30
27 41 16 00-0016	EA Switch And Pilot Light.....	290.23
27 41 16 00-0017	LF Surface Raceway With Outlets	34.73
27 41 16 00-0018	EA Service Label.....	41.19
27 41 16 00-0019	Head End Amplifier (27 41 16 00-0013)	
27 41 16 00-0020	EA Head End Amplifier.....	1,245.13
27 41 16 00-0021	UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)	
27 41 16 00-0022	EA UHF In-Line Booster	727.03
27 41 16 00-0023	Preamplifiers (27 41 16 00-0013)	
27 41 16 00-0024	EA VHF Preamplifier	909.47
27 41 16 00-0025	EA UHF Preamplifier	727.03
27 41 16 00-0026	Power Supplies (27 41 16 00-0013)	
27 41 16 00-0027	EA Common Power Supply	1,299.25
27 41 16 00-0028	Line Splitter And Mixer (27 41 16 00-0013)	
27 41 16 00-0029	EA Line Splitter.....	112.28
27 41 16 00-0030	EA Two-Way Splitter	126.80
27 41 16 00-0031	EA Frequency Filter.....	281.49
27 41 16 00-0032	EA Line Splitter And Mixer.....	342.76
27 41 16 00-0033	Power Line Filters (27 41 16 00-0013)	
27 41 16 00-0034	EA 120-Volt Power Supply Line Filter.....	545.63
27 41 16 00-0035	Wall Box And Receiver Outlets (27 41 16 00-0013)	
27 41 16 00-0036	EA Wall Box With Lockable Cover, Excluding Outlet Plug	281.49
27 41 16 00-0037	EA TV Receiver Outlet Plug	126.80
27 41 16 00-0038	EA TV Camera Outlet Plug.....	126.80
27 41 16 00-0039	EA Audio Outlet Plug.....	108.61
27 41 16 00-0040	EA 12 Ft RG 6U Cable With G-59 And TV Set Fittings	226.37
27 41 16 00-0041	EA Male Plug PL-259	126.80
27 41 16 00-0042	EA Wall Box And Receiver Outlet Television Outlets	149.59

27 41 33 Master Antenna Television Systems (27 41)

27 41 33 00-0001 Antenna Systems (27 41 33)

27	Communications
27 40	Audio-Video Communications
27 41	Audio-Video Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41 33 00-0002 Antenna (27 41 33 00-0001)		
27 41 33 00-0003 EA Amateur Radio Antenna.....	1,177.96	203.21
27 41 33 00-0004 EA Multi-Band Radio Antenna.....	916.62	203.21
27 41 33 00-0005 Receptacles (27 41 33 00-0001)		
27 41 33 00-0006 EA Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter.....	263.27	83.05
27 41 33 00-0007 EA Multi-Band Radio Antenna System Receptacle With Mating Plugs	263.27	83.05

27 50 Distributed Communications and Monitoring Systems (27)

27 51 Distributed Audio-Video Communications Systems (27 50)

27 51 17 Video Intercom and Exterior Gate Control System (27 51)

27 51 17 00-0001 Video Intercom And Exterior Gate Control System (27 51 17)		
27 51 17 00-0002 EA Audio Video Master Control Station With Handset, White Finish (Aiphone IX-MV7-HW)	1,623.96	169.71
27 51 17 00-0003 EA Audio Video Master Control Station (Aiphone AX-8MV)	1,308.67	169.71
27 51 17 00-0004 EA 16-call Add-on Selector For AX Masters (Aiphone AX-16SW).....	558.40	169.71
27 51 17 00-0005 EA Central Exchange Unit (Aiphone AX-084C).....	1,540.36	84.86
27 51 17 00-0006 EA Central Exchange Unit (Aiphone AX-248C).....	2,096.49	84.86
27 51 17 00-0007 EA Touch Tone Programmable Dialer (Viking K-1900-5).....	160.64	33.94
27 51 17 00-0008 EA Surface Mount Audio/Video Door Station (Aiphone IX-DV)	1,107.87	33.94
27 51 17 00-0009 EA Surface Or Flush Wall Mount Audio/Video Door Station (Aiphone IX-DVF).....	1,521.73	33.94
27 51 17 00-0010 EA Surface Mount Audio/Video Door Station (Aiphone AX-DV).....	495.57	33.94
27 51 17 00-0011 EA Flush Mount Audio/Video Door Station (Aiphone AX-DVF).....	558.34	33.94
27 51 17 00-0012 EA 12 Volt, 2.5 Amperes, DC Power Supply (Aiphone PS-1225UL)	152.17	16.97
Note: UL Listed		
27 51 17 00-0013 EA 24 Volt, 2 Amperes, DC Power Supply (Aiphone PS-2420UL)	165.32	16.97
Note: UL Listed		
27 51 17 00-0014 EA IP Video Master Station (Aiphone IX-MV).....	1,979.73	169.71
27 51 17 00-0015 EA Handset Only For IX-MV (Aiphone 285999)	67.85	6.78
27 51 17 00-0016 EA Hands Free Sub Master Video Monitor (Aiphone JF-2HD)	848.87	169.71
27 51 17 00-0017 EA Stainless Steel Video Door Station With HID ProxPoint Plus Reader, Flush Mount (Aiphone AX-DVF-P).....	793.35	33.94
27 51 17 00-0018 EA Stainless Steel Surface Mount Box For IS-SS, IS-DVF, IS-IPDVF, IX-DF(SS) (Aiphone SBX-IDVF).....	243.05	33.94
27 51 17 00-0019 EA Stainless Steel Surface Mount Box For AX-DVF (Aiphone SBX-AXDVF).....	270.79	33.94
27 51 17 00-0020 EA Stainless Steel Security Lock Box For IS-DV, IS-DVF, IX-DF, IX-SS, IX-DF-HID, And IX-DF-RP10 (Aiphone LB-SDVF/A)	332.47	50.91
27 51 17 00-0021 EA Front Case With Lens Cover For AX-DV And AX-DVF Cameras (Aiphone 240880)	74.54	16.97

27 51 23 Intercommunications and Program Systems (27 51)

27 51 23 20 Commercial Intercommunications and Program Systems (27 51 23)

27 51 23 20-0001 Intercom (27 51 23 20)		
27 51 23 20-0002 EA Basic Shelf (Dukane STARCall 110-3546A).....	5,782.15	407.33
27 51 23 20-0003 EA Expanded Audio Routing Card (Dukane STARCall 110-3524B).....	2,695.74	
27 51 23 20-0004 EA Expanded Audio Switching Card (Dukane STARCall 110-3534D).....	1,960.49	
27 51 23 20-0005 EA Expanded Administrative Telephone Card (Dukane STARCall Dukane 110-3527A)	1,983.18	
27 51 23 20-0006 EA Protected Balanced Telephone Card (Dukane STARCall 110-3775B).....	4,440.83	
27 51 23 20-0007 EA 250 Watt Power Amplifier (Dukane STARCall 1A4250).....	3,508.15	
27 51 23 20-0008 EA Intercom Amplifier Module (Dukane STARCall 110-3544C).....	880.30	
27 51 23 20-0009 EA Administrative Telephone (Dukane STARCall 7A1110).....	2,121.61	
27 51 23 20-0010 EA AM/FM Tuner / CD Player Preamplifier (Dukane STARCall RCD350P)	3,755.50	
27 51 23 20-0011 EA Digital Display (Dukane STARCall RDU350).....	4,191.21	
27 51 23 20-0012 EA UPS System, 120 Tripp Lite SMARTNET (Emerson PS220RT2-120).....	3,653.20	
27 51 23 20-0013 EA Equipment Cabinet (Atlas Sound 140-18).....	1,955.37	
27 51 23 20-0014 EA Storage Drawer (Atlas Sound SD6-14).....	641.83	
27 51 23 20-0015 EA Master Clock (Dukane 24A715).....	4,599.49	
27 51 23 20-0016 EA Corrective Clock (National Time 030-10EX-LV).....	399.21	
27 51 23 20-0017 EA Clock Backbox (National Time 143-K3).....	52.17	
27 51 23 20-0018 EA Speaker/Transformer Assembly (Dukane 5A606).....	49.90	
27 51 23 20-0019 EA Baffle (Atlas Sound 840-89).....	365.29	
27 51 23 20-0020 EA Surface Mounted Backbox (Atlas Sound SM195-89).....	206.32	
27 51 23 20-0021 EA Dual Call-In Button (Horizon DCSB-1D9).....	97.48	
27 51 23 20-0022 EA Dual Call-In Button With Privacy Control (Horizon DCSB-2P9)	120.17	
27 51 23 20-0023 EA Telephone Punchblock	56.67	
27 51 23 20-0024 EA Ground Rail (Edco MGB).....	35.71	
27 51 23 20-0025 EA Surge Suppressor (Edco OPX-048).....	58.98	
27 51 23 20-0026 EA Surge Suppressor (Edco HCO).....	61.24	

27 51 43 Sound Reinforcement (27 51)

Note: Includes testing of new devices and certification.

27 51 43 00-0001 Amplifiers (27 51 43)		
27 51 43 00-0002 EA 10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10)	602.66	135.78
27 51 43 00-0003 EA 35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35)	850.87	135.78
27 51 43 00-0004 EA 60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60)	1,010.20	135.78



Communications			27
Distributed Communications and Monitoring Systems			27 50
Distributed Audio-Video Communications Systems			27 51

27

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 43 00-0005 EA 100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100).....	1,123.87	135.78
27 51 43 00-0006 EA 150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	1,399.31	135.78
27 51 43 00-0007 EA 250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	1,811.21	135.78
27 51 43 00-0008 EA Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK)	71.88	6.78
27 51 43 00-0009 Splitters (27 51 43)		
27 51 43 00-0010 EA 24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE)	3,608.44	101.61
27 51 43 00-0011 EA 1-in/11-out Splitter (Doug Fleenor DMX)	3,255.41	101.61
27 51 43 00-0012 Speakers (27 51 43)		
27 51 43 00-0013 EA 8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W)	236.79	36.31
27 51 43 00-0014 EA 8" Steel Baffle (Atlas Sound 51-8)	75.31	6.77
27 51 43 00-0015 EA T-Bar Support (Atlas Sound EZ95-8)	83.98	6.77
27 51 43 00-0016 EA 8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408)	130.43	6.77
27 51 43 00-0017 EA Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA)	121.57	12.20
27 51 43 00-0018 Accessories (27 51 43)		
27 51 43 00-0019 EA Microphone And Stand For Audio/Video System (Bogen MBS-1000A).....	349.13	16.97
27 51 43 00-0020 EA 5 Disk CD Player For Audio/Video System (Bogen DCM290-P)	783.66	16.97
27 51 43 00-0021 EA Weather Proof Horn For Audio/Video System (Bogen SPT5A)	199.77	33.94
27 51 43 00-0022 EA Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A)	368.80	33.94
27 51 43 00-0023 EA Headset Microphone For Audio/Video System (Audio Technica Pro8Hex)	269.93	33.87
27 51 43 00-0024 EA Microphone Jack For Audio/Video System	125.69	33.94
27 51 43 00-0025 EA Terminal Cabinet For Audio/Video System (Atlas 121-18)	1,056.52	135.78
27 51 43 00-0026 EA Volume Control For Audio/Video System (Bogen AT10A).....	120.22	33.94
27 51 43 00-0027 EA Round Bridge for 8" (S86/S810) Recessed Speakers (Bogen Communications TB8).....	84.77	33.94
27 51 43 00-0028 Removal And Reinstallation Of Speakers (27 51 43)		
Note: Includes storage, cleaning and supply materials.		
27 51 43 00-0029 EA Removal And Reinstallation Of Ceiling Mounted Speaker.....	189.67	
27 53 Distributed Systems (27 50)		
27 53 13 Clock Systems (27 53)		
27 53 13 16 Wired Clock Systems (27 53 13)		
27 53 13 16-0001 Wired Self-Corrective Clock Systems (27 53 13 16)		
27 53 13 16-0002 Wired Self-Corrective Clocks (27 53 13 16-0001)		
27 53 13 16-0003 Analog, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)		
27 53 13 16-0004 24 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0005 EA 12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	289.24	33.87
For >50 To 100, Deduct		-18.99
For >100, Deduct		-27.85
27 53 13 16-0006 EA 12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	684.59	33.87
For >50 To 100, Deduct		-34.81
For >100, Deduct		-59.48
27 53 13 16-0007 EA 16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	362.14	33.87
For >50 To 100, Deduct		-24.85
For >100, Deduct		-36.63
27 53 13 16-0008 EA 16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	903.29	33.87
For >50 To 100, Deduct		-93.69
For >100, Deduct		-127.11
27 53 13 16-0009 120 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0010 EA 12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	289.24	33.87
For >50 To 100, Deduct		-18.99
For >100, Deduct		-27.85
27 53 13 16-0011 EA 12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	684.59	33.87
For >50 To 100, Deduct		-34.81
For >100, Deduct		-59.48
27 53 13 16-0012 EA 16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	362.14	33.87
For >50 To 100, Deduct		-24.85
For >100, Deduct		-36.63
27 53 13 16-0013 EA 16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	903.29	33.87
For >50 To 100, Deduct		-93.69
For >100, Deduct		-127.11
27 53 13 16-0014 Accessories For Analog Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0015 EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks	237.15	16.93
27 53 13 16-0016 EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks	61.91	16.93
27 53 13 16-0017 EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks	78.04	16.93
27 53 13 16-0018 EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks	94.86	16.93

27 Communications**27 50 Distributed Communications and Monitoring Systems****27 53 Distributed Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0019 EA Combination Back Box For Speaker And Clock.....	169.92	27.10
27 53 13 16-0020 Digital, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)		
27 53 13 16-0021 24 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0022 EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	356.54	33.87
For Surface Mount, Add	57.76	
For >50 To 100, Deduct	-17.33	
For >100, Deduct	-28.88	
27 53 13 16-0023 EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	547.20	33.87
For Surface Mount, Add	95.89	
For >50 To 100, Deduct	-28.77	
For >100, Deduct	-47.95	
27 53 13 16-0024 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0025 EA 2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	356.54	33.87
For Surface Mount, Add	57.76	
For >50 To 100, Deduct	-17.33	
For >100, Deduct	-28.88	
27 53 13 16-0026 EA 4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	547.20	33.87
For Surface Mount, Add	95.89	
For >50 To 100, Deduct	-28.77	
For >100, Deduct	-47.95	
27 53 13 16-0027 Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0028 EA 2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	305.38	33.87
For >50 To 100, Deduct	-14.26	
For >100, Deduct	-23.76	
27 53 13 16-0029 EA 4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	500.93	33.87
For >50 To 100, Deduct	-25.99	
For >100, Deduct	-43.32	
27 53 13 16-0030 Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0031 EA 2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	305.38	33.87
For >50 To 100, Deduct	-14.26	
For >100, Deduct	-23.76	
27 53 13 16-0032 EA 4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	500.93	33.87
For >50 To 100, Deduct	-25.99	
For >100, Deduct	-43.32	
27 53 13 16-0033 Accessories For Digital Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0034 EA Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks.....	322.67	16.93
27 53 13 16-0035 EA 2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	78.73	16.93
27 53 13 16-0036 EA 4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	108.17	16.93
27 53 13 16-0037 EA Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks.....	282.01	16.93
27 53 13 16-0038 EA 4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks.....	80.84	16.93
27 53 13 16-0039 Wired Self-Corrective Master Clocks (27 53 13 16-0001)		
27 53 13 16-0040 Wired Self-Corrective Master Clocks (27 53 13 16-0039)		
27 53 13 16-0041 EA 24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24).....	3,340.15	270.95
27 53 13 16-0042 EA 120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	3,550.44	270.95
27 53 13 16-0043 Accessories For Wired Self-Corrective Master Clocks (27 53 13 16-0039)		
27 53 13 16-0044 EA 5 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	347.88	67.74
27 53 13 16-0045 EA 10 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	392.03	67.74
27 53 13 16-0046 Other Clock And Program Systems (27 53 13 16)		
27 53 13 16-0047 EA 4 Circuit Master Clock And Signal Control (Lathem LTR4-512).....	2,112.28	135.48
27 53 13 16-0048 EA 8 Circuit Master Clock And Signal Control (Lathem LTR8-512).....	2,557.82	270.95
27 53 13 16-0049 EA Program Bell (Lathem 906-6).....	312.79	67.74
27 53 13 16-0050 EA Combination Clock And Speaker.....	710.67	169.34

END OF SECTION 27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

28 Electronic Safety and Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 40 Life Safety ⁽²⁸⁾

Note: Includes testing of new devices and certification. See CSI section 26 05 19 16-0011 for electrical connections and termination.

28 41 Radiation Detection and Alarm ^(28 40)

28 41 15 Radiation Detection Sensors ^(28 41)

28 41 15 00-0001 Wall Mount, Battery Operated, Home Radon Detector ^(28 41 15)

Note: Long term and 7 day average display.

28 41 15 00-0002 EA Wall Mount, Battery Operated, Home Radon Detector.....219.54

28 42 Gas Detection and Alarm ^(28 40)

28 42 11 Gas Detection and Alarm Control, GUI, and Logic Systems ^(28 42)

28 42 11 00-0001 Monitoring System For Underground Tanks ^(28 42 11)

28 42 11 00-0002 Continuous Leak Detection System ^(28 42 11 00-0001)

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 11 00-0003	EA	Single Channel Underground Tank Monitoring System.....	8,676.56	555.46
28 42 11 00-0004	EA	2 Channel Underground Tank Monitoring System.....	11,704.81	741.06
28 42 11 00-0005	EA	3 Channel Underground Tank Monitoring System.....	16,506.44	793.90
28 42 11 00-0006	EA	4 Channel Underground Tank Monitoring System.....	17,761.32	1,110.92
28 42 11 00-0007	EA	Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System.....	12,333.07	94.83
28 42 11 00-0008	EA	Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System.....	11,121.74	84.67
28 42 11 00-0009	EA	Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System.....	14,621.20	94.83
28 42 11 00-0010	EA	Tank Leak Detection Probe.....	4,524.00	20.32
28 42 11 00-0011	EA	Secondary Containment Collar Probe.....	553.47	8.12
28 42 11 00-0012	EA	Interstitial Leak Detection Probe.....	1,014.90	16.93
28 42 11 00-0013	EA	Liquid Phase Detection.....	3,348.26	50.80
28 42 11 00-0014	EA	Hydrocarbon Vapor, Fixed.....	3,091.43	50.80
28 42 11 00-0015	EA	Hydrocarbon Vapor, Float Mounted.....	3,611.49	57.58
28 42 11 00-0016	EA	Liquid And Vapor Hydrocarbon.....	4,125.15	57.58

28 42 15 Gas Detection Sensors ^(28 42)

28 42 15 00-0001 Hydrogen Gas Detection ^(28 42 15)

28 42 15 00-0002	EA	Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR).....	2,132.85	50.91
28 42 15 00-0003	EA	Hydrogen Gas Detector Junction Box (SBS HGDI-JB).....	113.37	16.97
28 42 15 00-0004	EA	Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM).....	544.34	50.91

28 43 Fuel Oil Detection and Alarm ^(28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

28 46 Fire Detection and Alarm ^(28 40)

28 46 13 Fire-Alarm Systems ^(28 46)

28 46 13 31 Proprietary Supervising-Station Fire-Alarm Systems ^(28 46 13)

Note: Includes programming of equipment, testing and certification of new devices.

28 46 13 31-0001 Edwards Fire Alarm ^(28 46 13 31)

28 46 13 31-0002 EST3 Life Safety And Security Control ^(28 46 13 31-0001)

28 46 13 31-0003 EST3 Network ^(28 46 13 31-0002)

28 46 13 31-0004 Remote Annunciators ^(28 46 13 31-0003)

28 46 13 31-0005	EA	Remote LCD Command Module Annunciator (EST3 3-LCDANN).....	1,726.49	101.83
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.				
28 46 13 31-0006	EA	Six Position Base Annunciator (EST3 3-6ANN).....	1,407.92	101.83
Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.				
28 46 13 31-0007	EA	Ten Position Base Annunciator (EST3 3-10ANN).....	1,779.39	101.83
Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.				
28 46 13 31-0008	EA	Annunciator CPU (EST3 3-ANNCPU3).....	1,136.00	101.83
Note: One Required per graphic annunciator.				
28 46 13 31-0009	EA	Annunciator Support Module (EST3 3-ANNSM).....	209.77	33.94
Note: Takes one space in Annunciator box. Supports one Control/Display module.				
28 46 13 31-0010	EA	Liquid Crystal Display Module (EST3 3-LCD).....	732.15	101.83
Note: Mounts over 3-CPU(1).				
28 46 13 31-0011	EA	Liquid Crystal Display Module (EST3 3-LCDXL).....	866.05	101.83
Note: Mounts over 3-ANNCPU plus two spaces.				

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0012 EA LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA) Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.	825.27	101.83
28 46 13 31-0013 EA Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA)..... Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.	959.38	67.89
28 46 13 31-0014 EA Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX) Note: Mounts up to three 3-EVDVRA modules.	146.53	33.94
28 46 13 31-0015 EA Central Processor Unit Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	2,043.70	101.83
28 46 13 31-0016 EA 120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,800.85	33.94
28 46 13 31-0017 Remote Annunciators Cabinets (28 46 13 31-0003)		
28 46 13 31-0018 EA Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCMB/B).....	157.84	33.94
28 46 13 31-0019 EA Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCMB/B-S)	144.26	27.16
28 46 13 31-0020 EA Six Position LED/LCD Flush Wallbox (EST3 6ANN/B)	177.80	33.94
28 46 13 31-0021 EA Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S)	164.22	27.16
28 46 13 31-0022 EA Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B)	196.52	33.94
28 46 13 31-0023 EA Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S)	182.94	27.16
28 46 13 31-0024 Audio And Telephone Masters (28 46 13 31-0003)		
28 46 13 31-0025 EA Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	5,616.92	135.78
28 46 13 31-0026 EA Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4).....	3,130.78	135.78
28 46 13 31-0027 EA Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	2,444.94	135.78
28 46 13 31-0028 EA Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU)	2,959.84	135.78
28 46 13 31-0029 EA Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	3,379.31	135.78
28 46 13 31-0030 EA Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95).....	2,422.45	67.89
28 46 13 31-0031 Battery Distribution Unit (28 46 13 31-0003)		
28 46 13 31-0032 EA Battery Distribution Unit (EST3 3-BTSEN).....	625.85	490.08
28 46 13 31-0033 Remote Booster Power Supply (28 46 13 31-0003)		
28 46 13 31-0034 EA 6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A)	980.69	101.83
28 46 13 31-0035 EA 10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10).....	1,118.94	101.83
28 46 13 31-0036 EA 10 Amperes, 220 Volt AC Booster Power Supply (EST3 BPS10220).....	1,220.82	101.83
28 46 13 31-0037 EA Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP)	161.18	33.94
28 46 13 31-0038 Batteries And Battery Cabinets (28 46 13 31-0003)		
28 46 13 31-0039 EA 1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 1.2 Ampere Hours)	123.22	33.94
28 46 13 31-0040 EA 4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A 4.5 Ampere Hours)	153.25	33.94
28 46 13 31-0041 EA 24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A 26 Ampere Hours)	360.47	33.94
28 46 13 31-0042 EA 6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 7.2 Ampere Hours)	165.28	33.94
28 46 13 31-0043 EA 40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A 40 Ampere Hours)	456.66	33.94
28 46 13 31-0044 EA 10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A 11 Ampere Hours)	257.53	33.94
28 46 13 31-0045 EA 50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A 50 Ampere Hours)	925.34	33.94
28 46 13 31-0046 EA 17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A 18 Ampere Hours)	263.73	33.94
28 46 13 31-0047 EA 65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A 65 Amp Hours)	1,113.79	33.94
28 46 13 31-0048 EA 8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A 8 Amp Hours)	147.40	33.94
28 46 13 31-0049 EA 10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A 12 Amp Hours)	132.39	33.94
28 46 13 31-0050 EA 14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1)..... Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.	470.86	67.89
28 46 13 31-0051 EA 22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2)	389.97	67.89
28 46 13 31-0052 EA Remote Closet Enclosure (EST3 3-RCC7R)	1,328.31	135.78
28 46 13 31-0053 EA Remote Closet Enclosure (EST3 3-RCC14R)	1,646.78	135.78
28 46 13 31-0054 EA Remote Closet Enclosure (EST3 3-RCC21R)	2,307.18	135.78
28 46 13 31-0055 Serial Printer (28 46 13 31-0003)		
28 46 13 31-0056 EA System Printer - Desk Top Style (EST3 PT-1S)	1,266.49	33.94
28 46 13 31-0057 Intelligent Analog Initiating Devices (28 46 13 31-0002)		
28 46 13 31-0058 Detectors, Signature (28 46 13 31-0057)		
28 46 13 31-0059 EA Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHS).....	282.99	50.91
28 46 13 31-0060 EA Black, Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHSB).....	317.95	50.91
28 46 13 31-0061 EA Intelligent Multisensor Detector - Photoelectric, Heat (Edwards SIGA-PHD).....	218.95	50.91
28 46 13 31-0062 EA Intelligent Photoelectric Smoke Detector, Duct Mounted (Edwards SIGA-PD).....	196.87	50.91
28 46 13 31-0063 EA Intelligent Ionization Smoke Detector (EST3 SIGA-IS)	251.74	50.91
28 46 13 31-0064 EA Intelligent Fixed Temperature / Rate-of-Rise Heat Detector - 135F, 15F Per Minute (Edwards SIGA-HRD).....	173.83	50.91
28 46 13 31-0065 EA Intelligent Fixed Temperature Heat Detector - 135 Degree F (Edwards SIGA-HFD)	173.83	50.91
28 46 13 31-0066 EA Passive Infrared Motion Detector (EST3 SIGA-MD)	327.25	50.91
28 46 13 31-0067 EA Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS)	361.38	50.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0068 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS)	304.90	50.91
28 46 13 31-0069 EA Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS)	440.36	50.91
28 46 13 31-0070 EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA2-HFS)	254.35	50.91
28 46 13 31-0071 EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA2-HRS)	254.35	50.91
28 46 13 31-0072 EA Photoelectric, Heat, Intelligent 3D Multisensor Detector (EST3 SIGA2-PHS)	350.42	50.91
28 46 13 31-0073 Detectors, Duct Housings and Accessories, Signature (28 46 13 31-0057)		
28 46 13 31-0074 EA Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD)	572.20	84.86
28 46 13 31-0075 EA Superduct, Test Magnet Kit (EST3 SD-MAG)	24.90	
28 46 13 31-0076 EA Superduct, 120" Air Sample Tube (EST3 SD-T120)	75.40	20.36
28 46 13 31-0077 EA Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK)	149.54	27.16
28 46 13 31-0078 EA Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS)	202.41	27.16
28 46 13 31-0079 EA High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL)	89.21	27.16
28 46 13 31-0080 Modules, Signature (28 46 13 31-0057)		
28 46 13 31-0081 EA Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB)	266.43	33.94
28 46 13 31-0082 EA Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1)	140.85	33.94
28 46 13 31-0083 EA Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2)	191.73	33.94
28 46 13 31-0084 EA Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2)	238.56	33.94
28 46 13 31-0085 EA Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1)	210.93	33.94
28 46 13 31-0086 EA Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2)	221.49	33.94
28 46 13 31-0087 EA Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR)	167.73	33.94
Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).		
28 46 13 31-0088 EA Control Relay UIO (Plug In) Module (EST3 SIGA-MCR)	207.38	33.94
28 46 13 31-0089 EA Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S)	277.02	33.94
28 46 13 31-0090 EA Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO)	270.03	33.94
28 46 13 31-0091 EA Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO)	259.61	33.94
28 46 13 31-0092 EA Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM)	238.01	204.06
28 46 13 31-0093 EA Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1)	174.18	33.94
Note: Factory programmed for non-latching monitor operation.		
28 46 13 31-0094 EA Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S)	278.16	33.94
28 46 13 31-0095 Module Accessories, Signature (28 46 13 31-0057)		
Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.		
28 46 13 31-0096 EA Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4)	68.93	16.97
28 46 13 31-0097 EA Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6)	235.18	33.94
28 46 13 31-0098 EA Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, - UM And -MAB Modules (EST3 235196P)	25.57	10.18
28 46 13 31-0099 EA Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1- Gang Signature Modules (EST3 SIGA-MP1)	80.98	16.97
28 46 13 31-0100 EA Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1- Gang Signature Modules (EST3 SIGA-MP2)	72.33	16.97
28 46 13 31-0101 EA Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L)	75.75	16.97
28 46 13 31-0102 Single Action Pull Stations, Signature (28 46 13 31-0057)		
28 46 13 31-0103 EA One Stage Fire Alarm Station, English Markings (EST3 SIGA-270)	292.66	70.60
28 46 13 31-0104 EA Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P)	344.91	70.60
28 46 13 31-0105 EA GA Key - For Pre Signal Station (EST3 276-K2)	40.11	33.31
28 46 13 31-0106 EA 20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR)	50.18	43.38
28 46 13 31-0107 EA Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB)	76.88	49.73
28 46 13 31-0108 Double Action Pull Stations, Signature (28 46 13 31-0057)		
28 46 13 31-0109 EA Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278)	250.02	70.60
28 46 13 31-0110 EA 12 Glass Rods For SIGA-278 Series (EST3 276-GLR)	50.93	6.78
28 46 13 31-0111 Detector Bases and Accessories, Signature (28 46 13 31-0057)		
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.		
28 46 13 31-0112 EA Audible (Sounder) Base (EST3 SIGA-AB4G)	146.23	16.97
28 46 13 31-0113 EA Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB)	54.94	16.97
28 46 13 31-0114 EA Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4)	182.49	16.97
28 46 13 31-0115 EA Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG)	103.75	16.97
28 46 13 31-0116 EA Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB)	121.16	16.97
28 46 13 31-0117 EA Detector Mounting Plate (EST3 SIGA-DMP)	190.82	16.97
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.		
28 46 13 31-0118 EA Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED)	68.93	16.97

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0119	EA		Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS)	25.72	10.18
28 46 13 31-0120	EA		Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4)	25.72	10.18
28 46 13 31-0121	EA		Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF)	72.76	10.18
28 46 13 31-0122	EA		Detector Base With Isolator (EST3 SIGA-IB)	119.40	16.97
28 46 13 31-0123	EA		Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4)	126.86	16.97
28 46 13 31-0124	EA		Detector Base With Form 'C' Relay (EST3 SIGA-RB)	83.86	16.97
28 46 13 31-0125	EA		Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4)	106.38	16.97
28 46 13 31-0126	EA		Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4)	50.26	16.97
28 46 13 31-0127			Controllers, Signature (28 46 13 31-0057)		
28 46 13 31-0128	EA		Signature Dual Driver Controller (EST3 3-SDDC1)	4,028.41	101.83
28 46 13 31-0129	EA		Single Signature Loop Controller (EST3 3-SSDC1)	2,311.39	101.83
28 46 13 31-0130	EA		Signature Loop Controller (EST3 3-SDC1)	2,077.02	101.83
28 46 13 31-0131	EA		Analog Addressable Loop Controller (EST3 3-AADC1)	3,325.93	101.83
28 46 13 31-0132			Relays And Accessories (28 46 13 31-0057)		
28 46 13 31-0133	EA		Multi Voltage Relay (EST3 MR101)	215.32	33.94
28 46 13 31-0134	EA		Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T)	64.49	16.97
28 46 13 31-0135			Notification Appliances (28 46 13 31-0002)		
28 46 13 31-0136			Wall Strobes, Horns And Chimes (28 46 13 31-0135)		
28 46 13 31-0137	EA		Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM)	176.30	50.91
28 46 13 31-0138	EA		Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM)	176.30	50.91
28 46 13 31-0139	EA		Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM)	200.55	50.91
28 46 13 31-0140	EA		Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD)	148.97	50.91
28 46 13 31-0141	EA		Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD)	148.97	50.91
28 46 13 31-0142	EA		Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD)	148.97	50.91
28 46 13 31-0143	EA		Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD)	148.97	50.91
28 46 13 31-0144	EA		Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P)	126.01	50.91
28 46 13 31-0145	EA		Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1R-P)	126.01	50.91
28 46 13 31-0146	EA		Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P)	126.01	50.91
28 46 13 31-0147	EA		Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM)	299.55	50.91
28 46 13 31-0148	EA		Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM)	299.55	50.91
28 46 13 31-0149	EA		Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C)	197.60	50.91
28 46 13 31-0150	EA		Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C)	197.60	50.91
28 46 13 31-0151	EA		Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575)	176.30	50.91
28 46 13 31-0152	EA		Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM)	176.30	50.91
28 46 13 31-0153	EA		Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM)	176.30	50.91
28 46 13 31-0154	EA		Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575)	176.30	50.91
28 46 13 31-0155	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM)	183.12	50.91
28 46 13 31-0156	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM)	183.12	50.91
28 46 13 31-0157	EA		Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST GCF-VMH)	199.07	50.91
28 46 13 31-0158	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM)	183.12	50.91
28 46 13 31-0159	EA		Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH)	183.12	50.91
28 46 13 31-0160	EA		Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE)	111.08	50.91
28 46 13 31-0161	EA		Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE)	111.08	50.91
28 46 13 31-0162			Wall Speakers And Speaker Strobes (28 46 13 31-0135)		
28 46 13 31-0163	EA		Multi-Wattage 25 VRMS Speaker (EST3 G4-S2)	146.91	50.91
28 46 13 31-0164	EA		Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM)	223.84	50.91
28 46 13 31-0165	EA		Multi-Wattage 70 VRMS Speaker (EST3 G4-S7)	146.91	50.91
28 46 13 31-0166	EA		Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM)	223.84	50.91
28 46 13 31-0167	EA		Surface Box, White, For Genesis Speaker (EST3 G4B)	73.06	27.16
28 46 13 31-0168	EA		Surface Box, Red, For Genesis Speaker (EST3 G4RB)	73.06	27.16
28 46 13 31-0169			Ceiling Speakers And Speaker Strobes (28 46 13 31-0135)		
28 46 13 31-0170	EA		Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7)	174.81	50.91
28 46 13 31-0171	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM)	223.84	50.91
28 46 13 31-0172	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC- S7VMH)	239.37	50.91
28 46 13 31-0173			Harsh Environment Signals (28 46 13 31-0135)		
28 46 13 31-0174	EA		Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T)	155.72	50.91
28 46 13 31-0175	EA		15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T)	216.95	50.91
28 46 13 31-0176	EA		110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T)	216.95	50.91
28 46 13 31-0177	EA		15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T)	198.74	50.91
28 46 13 31-0178	EA		15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T)	186.64	50.91
28 46 13 31-0179	EA		30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T)	198.74	50.91
28 46 13 31-0180	EA		60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T)	198.74	50.91
28 46 13 31-0181	EA		110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T)	198.74	50.91

**Electronic Safety and Security****28****Life Safety****28 40****Fire Detection and Alarm****28 46****28**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0182 EA 15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T).....	219.83	57.71
28 46 13 31-0183 EA 110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T).....	219.83	57.71
28 46 13 31-0184 EA 15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T).....	163.10	50.91
28 46 13 31-0185 EA 30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T).....	211.14	50.91
28 46 13 31-0186 Fire Alarm Bells (28 46 13 31-0135)		
28 46 13 31-0187 EA 10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW).....	233.93	50.91
28 46 13 31-0188 EA 6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW).....	188.20	50.91
28 46 13 31-0189 EA 10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW).....	207.72	50.91
28 46 13 31-0190 Multiple Tone Signal (28 46 13 31-0135)		
28 46 13 31-0191 EA 27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW).....	1,473.96	1,423.04
28 46 13 31-0192 Multi-Purpose Loudspeaker (28 46 13 31-0135)		
28 46 13 31-0193 EA 15 Watt Loudspeaker, Gray (EST3 HPSA15G2570).....	306.87	50.91
28 46 13 31-0194 EA 15 Watt Loudspeaker, Red (EST3 HPSA15R2570).....	306.87	50.91
28 46 13 31-0195 Bell/Strobe Plate (28 46 13 31-0135)		
28 46 13 31-0196 EA Bell/Strobe Plate - 15cd (EST3 403-5A-R).....	155.37	27.16
28 46 13 31-0197 Mounting Accessories (28 46 13 31-0135)		
28 46 13 31-0198 EA Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11).....	74.47	27.16
28 46 13 31-0199 EA One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY).....	74.47	27.16
28 46 13 31-0200 EA Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16).....	74.47	27.16
28 46 13 31-0201 EA Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21).....	74.47	27.16
28 46 13 31-0202 EA Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26).....	74.47	27.16
28 46 13 31-0203 Firefighters' Telephones (28 46 13 31-0135)		
28 46 13 31-0204 EA Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4).....	1,323.88	84.86
28 46 13 31-0205 EA Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4).....	746.81	84.86
28 46 13 31-0206 EA Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F).....	538.99	84.86
28 46 13 31-0207 EA Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1).....	394.12	84.86
28 46 13 31-0208 EA Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4).....	720.94	84.86
28 46 13 31-0209 EA Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A).....	445.82	84.86
28 46 13 31-0210 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4).....	812.52	84.86
28 46 13 31-0211 EA Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A).....	463.06	84.86
28 46 13 31-0212 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4).....	929.80	84.86
28 46 13 31-0213 EA Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1).....	102.67	27.16
28 46 13 31-0214 EA Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4).....	117.67	27.16
28 46 13 31-0215 EA Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3).....	162.82	
28 46 13 31-0216 EA Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061).....	162.82	
28 46 13 31-0217 EA Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1).....	247.93	33.94
28 46 13 31-0218 EA Frontplate - Flush Mount, Red Finish, Non-Break Glass Type With Two Keys (EST3 6831-2).....	307.65	33.94
28 46 13 31-0219 EA Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3).....	218.07	33.94
28 46 13 31-0220 EA Frontplate - Surface Mount, Red Finish, Non-Break Glass Type, With Two Keys (EST3 6831-4).....	209.29	33.94
28 46 13 31-0221 EA Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	156.39	50.91
28 46 13 31-0222 EA Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	1,365.34	67.89
28 46 13 31-0223 Mass Notification EC Appliances (28 46 13 31-0135)		
28 46 13 31-0224 EA G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	183.17	50.91
28 46 13 31-0225 EA G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	176.97	50.91
28 46 13 31-0226 EA G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA).....	183.17	50.91
28 46 13 31-0227 EA G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC).....	176.97	50.91
28 46 13 31-0228 EA G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT).....	27.77	10.18
28 46 13 31-0229 Hazardous Location Devices (28 46 13 31-0002)		
28 46 13 31-0230 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location (28 46 13 31-0229)		
28 46 13 31-0231 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	158.12	50.91
28 46 13 31-0232 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	158.12	50.91
28 46 13 31-0233 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	164.19	50.91
28 46 13 31-0234 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	164.19	50.91
28 46 13 31-0235 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	220.25	50.91
28 46 13 31-0236 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194).....	220.25	50.91
28 46 13 31-0237 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135).....	164.19	50.91

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0238 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	164.19	50.91
28 46 13 31-0239 Hazardous Locations Fire Alarm Station (28 46 13 31-0229)		
28 46 13 31-0240 EA Hazardous Location Fire Alarm Station (EST3 XAL53)	1,402.12	84.86
28 46 13 31-0241 EA Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPTD (EST3 MPSR1-D45WX-GE)	1,335.16	84.86
28 46 13 31-0242 Hazardous Location Strobes (28 46 13 31-0229)		
28 46 13 31-0243 EA Explosion Proof Strobe (EST3 116DEXSTC-FJ)	2,077.69	50.91
28 46 13 31-0244 EA Wall Bracket Mounting Elbow (EST3 116EX-B).....	388.39	16.97
28 46 13 31-0245 EA Ceiling / Wall Mounting Module (EST3 116EX-C).....	507.97	20.36
28 46 13 31-0246 EA Pendant Mounting Module (EST3 116EX-P)	373.21	20.36
28 46 13 31-0247 Hazardous Location Bells (28 46 13 31-0229)		
28 46 13 31-0248 EA 6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW)	1,500.49	50.91
28 46 13 31-0249 EA 8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW)	1,539.25	50.91
28 46 13 31-0250 EA 10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW)	1,553.22	50.91
28 46 13 31-0251 Hazardous Location Horns (28 46 13 31-0229)		
28 46 13 31-0252 EA Hazardous Location Horns (EST3 888D-N5).....	1,467.09	50.91
28 46 13 31-0253 EA Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW).....	1,198.86	50.91
28 46 13 31-0254 Door Holders And Relays (28 46 13 31-0002)		
28 46 13 31-0255 Electromagnetic Door Holders (28 46 13 31-0254)		
28 46 13 31-0256 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5).....	265.88	50.91
28 46 13 31-0257 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5).....	343.67	50.91
28 46 13 31-0258 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5)	226.15	50.91
28 46 13 31-0259 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5)	226.15	50.91
28 46 13 31-0260 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5).....	229.74	50.91
28 46 13 31-0261 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5).....	233.17	50.91
28 46 13 31-0262 Control Relays, Multi-Voltage (28 46 13 31-0254)		
28 46 13 31-0263 EA Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1).....	53.74	10.18
28 46 13 31-0264 FireShield Plus (28 46 13 31-0002)		
28 46 13 31-0265 3 Zone System (28 46 13 31-0264)		
28 46 13 31-0266 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R)	1,450.11	407.33
28 46 13 31-0267 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD)	2,109.16	543.10
28 46 13 31-0268 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G)	1,450.11	407.33
28 46 13 31-0269 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD)	2,109.16	543.10
28 46 13 31-0270 EA Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	100.97	16.97
28 46 13 31-0271 EA Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	100.97	16.97
28 46 13 31-0272 5 Zone System (28 46 13 31-0264)		
28 46 13 31-0273 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R)	1,558.61	407.33
28 46 13 31-0274 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD)	2,211.45	543.10
28 46 13 31-0275 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G)	1,558.61	407.33
28 46 13 31-0276 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD)	2,211.45	543.10
28 46 13 31-0277 EA Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	100.97	16.97
28 46 13 31-0278 EA Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	100.97	16.97
28 46 13 31-0279 10 Zone System (28 46 13 31-0264)		
28 46 13 31-0280 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R)	2,248.65	543.10
28 46 13 31-0281 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD)	2,907.69	678.87



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0282 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G).....	2,202.16	543.10
28 46 13 31-0283 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD).....	2,907.69	678.87
28 46 13 31-0284 EA Semi-Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G)	117.76	16.97
28 46 13 31-0285 EA NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120)	215.49	33.94
28 46 13 31-0286 FireShield Plus Off Premise Communication Options (28 46 13 31-0264)		
28 46 13 31-0287 EA F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT)	470.87	33.94
28 46 13 31-0288 FireShield Plus Remote LED Annunciators (28 46 13 31-0264)		
28 46 13 31-0289 EA Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI)	202.41	50.91
28 46 13 31-0290 EA Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A).....	202.41	50.91
28 46 13 31-0291 EA Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA).....	210.33	50.91
28 46 13 31-0292 EA Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2)	40.52	10.18
28 46 13 31-0293 EA Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3)	50.64	10.18
28 46 13 31-0294 EA Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4)	74.94	10.18
28 46 13 31-0295 FireShield Plus Remote 10 Zone LED Annunciators (28 46 13 31-0264)		
28 46 13 31-0296 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10).....	628.81	50.91
28 46 13 31-0297 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C).....	690.81	50.91
28 46 13 31-0298 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1).....	222.88	33.94
28 46 13 31-0299 FireShield Plus Remote Relays And Interfaces (28 46 13 31-0264)		
28 46 13 31-0300 EA Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24).....	235.53	33.94
28 46 13 31-0301 EA 11" Snap Track Holds 2-4 RRM's, Used To Mount FSRRMs In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11).....	97.84	20.36
28 46 13 31-0302 EA Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM).....	374.78	33.94
28 46 13 31-0303 FireShield Plus Accessories (28 46 13 31-0264)		
28 46 13 31-0304 EA Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1).....	22.03	
28 46 13 31-0305 EA 4.7k UL End Of Line Resistor With FireShield Panels (EST3 EOL47PK7).....	13.55	
28 46 13 31-0306 iO Series Fire Control Panels (28 46 13 31-0002)		
28 46 13 31-0307 Intelligent Analog Control Panels (28 46 13 31-0306)		
28 46 13 31-0308 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 iO500G)	4,352.23	678.87
28 46 13 31-0309 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD)	4,652.92	678.87
28 46 13 31-0310 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 iO64G)	3,474.34	543.10
28 46 13 31-0311 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD)	3,613.83	543.10
28 46 13 31-0312 Option Modules And Accessories For iO Series (28 46 13 31-0306)		
28 46 13 31-0313 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1).....	411.82	50.91
28 46 13 31-0314 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2).....	256.82	50.91
28 46 13 31-0315 EA Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232)	256.82	50.91
28 46 13 31-0316 EA Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA)	222.88	33.94
28 46 13 31-0317 EA Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT).....	457.29	27.16
28 46 13 31-0318 EA Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH).....	829.28	27.16
28 46 13 31-0319 EA Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1)	99.04	16.97
28 46 13 31-0320 EA Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2)	114.54	16.97
28 46 13 31-0321 EA Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250).....	1,530.72	67.89
28 46 13 31-0322 Remote Annunciators For iO Series (28 46 13 31-0306)		
28 46 13 31-0323 EA Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD).....	838.04	50.91

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0324	EA	Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C)	876.80	50.91	
28 46 13 31-0325 Remote Annunciator Accessories (28 46 13 31-0306)					
28 46 13 31-0326	EA	24 Expander Cable Assembly, With Cable And Hardware (EST3 730073)	95.94	16.97	
28 46 13 31-0327	EA	12 Expander Cable (Cable Only) (EST3 7120313-01)	64.94	16.97	
28 46 13 31-0328	EA	24 Expander Cable (Cable Only) (EST3 7120313-02)	88.18	16.97	
28 46 13 31-0329	EA	Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1)	256.82	50.91	
28 46 13 31-0330	EA	Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2)	295.56	50.91	
28 46 13 31-0331	EA	Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3)	334.32	50.91	
28 46 13 31-0332	EA	Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC)	64.94	16.97	
28 46 13 31-0333	EA	Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC)	64.94	16.97	
28 46 13 31-0334	EA	Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY)	132.66	16.97	
28 46 13 31-0335 System Accessories (28 46 13 31-0306)					
28 46 13 31-0336	EA	Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1)	470.86	67.89	
28 46 13 31-0337	EA	Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A)	2,143.88	543.10	
28 46 13 31-0338 Conventional Initiating Devices (28 46 13 31-0002)					
28 46 13 31-0339 Detectors, Heat, Double Pole (28 46 13 31-0338)					
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.					
28 46 13 31-0340	EA	Heat Detector, 135 Degree F Fixed Temperature (CF135-2)	185.35	50.91	
28 46 13 31-0341	EA	Heat Detector, 200 Degree F Fixed Temperature (CF200-2)	185.35	50.91	
28 46 13 31-0342	EA	Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2)	185.35	50.91	
28 46 13 31-0343	EA	Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2)	185.35	50.91	
28 46 13 31-0344 Detectors, Rate Compensation Heat, Accessories (28 46 13 31-0338)					
28 46 13 31-0345	EA	Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P)	114.36	50.91	
28 46 13 31-0346	EA	Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11)	307.68	27.16	
28 46 13 31-0347	EA	4" Weatherproof, Octagon Back Box And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27)	98.10	33.94	
28 46 13 31-0348 Detectors, Heat, Fire-Lite (28 46 13 31-0338)					
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.					
28 46 13 31-0349	EA	Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135)	173.43	50.91	
28 46 13 31-0350	EA	Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194)	173.43	50.91	
28 46 13 31-0351 Audio Notification Systems (Standalone Voice Evacuation) (28 46 13 31-0002)					
28 46 13 31-0352 Audio Notification Panels (28 46 13 31-0351)					
28 46 13 31-0353	EA	Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG)	5,961.06	678.87	
28 46 13 31-0354	EA	Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR)	5,961.06	678.87	
28 46 13 31-0355	EA	Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG)	4,457.63	678.87	
28 46 13 31-0356	EA	Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR)	4,457.63	678.87	
28 46 13 31-0357	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG)	5,201.59	678.87	
28 46 13 31-0358	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR)	5,201.59	678.87	
28 46 13 31-0359 Audio Notification Expander Panels (28 46 13 31-0351)					
28 46 13 31-0360	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG)	4,581.62	678.87	
28 46 13 31-0361	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR)	4,581.62	678.87	
28 46 13 31-0362	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG)	3,124.68	678.87	
28 46 13 31-0363	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR)	3,124.68	678.87	
28 46 13 31-0364	EA	Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG)	3,977.14	678.87	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0365 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR).....	3,977.14	678.87
28 46 13 31-0366 Audio Notification Output Accessories (28 46 13 31-0351)		
28 46 13 31-0367 EA Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B)	173.43	16.97
28 46 13 31-0368 EA Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A)	765.36	33.94
28 46 13 31-0369 EA Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B)	765.36	33.94
28 46 13 31-0370 EA Class A Converter (GE ANSZSC4A)	548.37	33.94
28 46 13 31-0371 Audio Notification Remote Microphone (28 46 13 31-0351)		
28 46 13 31-0372 EA Microphone (GE ANSMIKE)	207.38	33.94
28 46 13 31-0373 EA Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG).....	842.86	33.94
28 46 13 31-0374 EA Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR).....	842.86	33.94
28 46 13 31-0375 EA Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP).....	188.93	16.97
28 46 13 31-0376 EA Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR)	103.67	16.97
28 46 13 31-0377 Audio Notification Accessories (28 46 13 31-0351)		
28 46 13 31-0378 EA Audio Matching - Line Input/Output Card (GE ANSAUX)	346.88	33.94
28 46 13 31-0379 EA Class B Backup Amplifier Switching Module (GE ANSBKUP).....	346.88	33.94
28 46 13 31-0380 EA Class A Backup Amplifier Switching Module (GE ANSBKUPA).....	346.88	33.94
28 46 13 31-0381 EA Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANRSI8)	765.36	33.94
28 46 13 31-0382 Audio Notification Modules, Without Cabinet And Transformer (28 46 13 31-0351)		
28 46 13 31-0383 EA 100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A)	2,786.17	67.89
Note: Excludes cabinet.		
28 46 13 31-0384 EA 100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM).....	2,925.67	67.89
Note: Excludes cabinet.		
28 46 13 31-0385 EA 100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD)	4,041.62	67.89
Note: Excludes cabinet.		
28 46 13 31-0386 EA 25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A)	1,530.72	67.89
Note: Excludes cabinet.		
28 46 13 31-0387 EA 25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM)	1,530.72	67.89
Note: Excludes cabinet.		
28 46 13 31-0388 EA 25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD).....	2,786.17	67.89
28 46 13 31-0389 EA 50W Expander Module (No Microphone Or DMR) (GE ANS50A)	2,228.20	67.89
Note: Excludes cabinet.		
28 46 13 31-0390 EA 50W Expander Module With Microphone (No DMR) (GE ANS50AM)	2,367.69	67.89
Note: Excludes cabinet.		
28 46 13 31-0391 EA 50W Audio Notification Module With DMR And Microphone (GE ANS50AMD).....	3,483.64	67.89
Note: Excludes cabinet.		
28 46 13 31-0392 EA Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180).....	173.43	16.97
28 46 13 31-0393 EA Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885).....	128.55	16.97
28 46 13 31-0394 EST4 Life Safety And Security Control (28 46 13 31-0001)		
28 46 13 31-0395 Audio Units And Interfaces (28 46 13 31-0394)		
28 46 13 31-0396 EA Annunciator, Audio And Telephone Interface Module (EST4 4-ANNAUDEL)	356.99	101.83
28 46 13 31-0397 EA Audio And Telephone Interface/Riser Module (EST4 4-AUDELS)	681.23	33.94
28 46 13 31-0398 EA Firefighter Master Handset (EST4 4-FT)	675.71	84.86
28 46 13 31-0399 EA Display, LCD Module For Audio/Telephone Control (EST4 4-LCDAUDEL)	625.36	101.83
28 46 13 31-0400 EA Display, LCD Module With Cable For Audio/Telephone Control For Annunciators (EST4 4-LCDAUDELANN)	696.75	101.83
28 46 13 31-0401 EA Display, LCD Module With Cable For Audio/Telephone Control With Bracket For CAB 14 And CAB 21 (EST4 4- LCDAUDELCA-CB)	752.00	101.83
28 46 13 31-0402 EA Display, LCD Module With Cable For Audio/ Telephone Control With Mounting Plate (EST4 4-LCDAUDELCA-CB- MPLT).....	880.48	101.83
Note: For CAB7, CAB14, CAB21, 4-16ANNMT and 4-24ANNMT applications		
28 46 13 31-0403 EA Paging Microphone (EST4 4-MIC).....	708.38	33.94
28 46 13 31-0404 Cabinets And Chassis (28 46 13 31-0394)		
28 46 13 31-0405 EA Battery Shelf For RCCxx Series Cabinets (EST4 3-BATS)	61.92	10.73
Note: Takes one chassis space in a RCC cabinet. Provides space for up to one 65AH battery.		
28 46 13 31-0406 EA Battery Distribution Module (EST4 3-BTSEN)	502.31	135.78
28 46 13 31-0407 EA Wallbox With 2 Chassis Spaces (EST4 3-CAB14B)	638.24	50.91
28 46 13 31-0408 EA Wallbox With 3 Chassis Spaces (EST4 3-CAB21B)	779.92	50.91
28 46 13 31-0409 EA Backbox, Black (EST4 3-CAB5B)	308.83	50.91
Note: Supports five Local Rail Modules.		
28 46 13 31-0410 EA Wallbox With 1 Chassis Space (EST4 3-CAB7B).....	435.86	50.91

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0411 EA 3-CAB - Seismic Battery Hold Down For 3-CAB 7, 14 Or 21 (EST4 3-CABEQ).....	326.99	13.58
Note: Supports two 12V batteries from 10 Amp hrs up to 18 Ahrs. Comes with EST3 Chassis hardening hardware and instructions		
28 46 13 31-0412 EA Chassis Assembly (EST4 3-CHAS7).....	486.42	50.91
Note: Fits in any Lobby or Remote Closet Cabinet except CAB5 Series. Provides space for up to seven LRMs. Rear space for up to two power supplies.		
28 46 13 31-0413 EA Remote Closet Enclosure, Red (EST4 3-RCC14R).....	1,167.18	135.78
28 46 13 31-0414 EA Remote Closet Enclosure, Red (EST4 3-RCC21R).....	1,597.25	135.78
28 46 13 31-0415 EA Remote Closet Enclosure, Red (EST4 3-RCC7R).....	959.77	135.78
28 46 13 31-0416 EA 3-RCC Series Cabinet, Seismic Battery Hold Down For 3-RCC1XXR Series (EST4 3-RCCEQ50).....	484.83	169.71
Note: Supports one set of 50 Amp hr (two batteries). Order 3-RCC14R or 3-RCC21R separately.		
28 46 13 31-0417 EA 3-RCC Series Cabinet, Seismic Battery Hold Down (EST4 3-RCCEQ65).....	939.04	169.71
Note: Supports one set of 65 Ahr (two batteries) batteries (one battery in bottom of cabinet, one battery mounted on 3-BATS. Order 3-RCCxxR cabinet and 3-BATS separately.		
28 46 13 31-0418 EA Tamper Switch For CAB5 Series Cabinets (EST4 3-TAMP5).....	128.68	33.94
28 46 13 31-0419 EA Tamper Switch For 3-RCC Cabinets (EST4 3-TAMP5).....	128.68	33.94
28 46 13 31-0420 EA Mounting Bracket (EST4 4-BRKT-CB).....	90.90	16.97
Note: Provides space for mounting any one of 4-ANNCPU, 4-FWAL-1, 4-FWAL-2, 4-FWAL-3, 4-FWAL-4, or a 4-NET-AD module. Mounts on the back plane of a 3-CHAS7 or on the back plane of a 3-ASU chassis in retrofit applications.		
28 46 13 31-0421 EA Mounting Bracket (EST4 4-BRKT-CS).....	90.90	16.97
Note: Provides space for mounting any one of 4-FWAL-1, 4-FWAL-2, 4-FWAL-3, 4-FWAL-4, or a 4-NET-AD module. The bracket mounts to the side of a 3-CHAS7.		
28 46 13 31-0422 EA Door Assembly, Bronze (EST4 4-CAB16D).....	597.85	10.18
Note: Includes 16 User Interface spaces, mounts to 3-CAB7B wallbox.		
28 46 13 31-0423 EA Door Assembly, Red (EST4 4-CAB16DR).....	597.85	10.18
Note: Includes 16 User Interface spaces, mounts to 3-CAB7B wallbox.		
28 46 13 31-0424 EA Door Assembly, Bronze (EST4 4-CAB24D).....	738.45	10.18
Note: Outer door and black inner door with 24 user interface spaces, mounts to 3-CAB14B wallbox.		
28 46 13 31-0425 EA Door Assembly, Bronze (EST4 4-CAB24DL).....	843.93	10.18
Note: Outer door and black inner door with 24 user interface spaces, mounts to 3-CAB21B wallbox.		
28 46 13 31-0426 EA Door Assembly, Red (EST4 4-CAB24DR).....	739.34	10.18
Note: Outer door and black inner door with 24 user interface spaces, mounts to 3-CAB14B wallbox.		
28 46 13 31-0427 EA Door Assembly, Red (EST4 4-CAB24DRL).....	843.93	10.18
Note: Outer door and black inner door with 24 user interface spaces, mounts to 3-CAB21B wallbox.		
28 46 13 31-0428 EA Door Assembly, Bronze (EST4 4-CAB8D).....	420.71	10.18
Note: Outer door and black inner door with 8 user interface spaces, mounts to 3-CAB5B wallbox.		
28 46 13 31-0429 EA Door Assembly, Red (EST4 4-CAB8DR).....	420.71	10.18
Note: Outer door and black inner door with 8 user interface spaces, mounts to 3-CAB5B wallbox.		
28 46 13 31-0430 EA Replacement Hinge Assembly For CAB21 (EST4 4-HNG21).....	82.31	
28 46 13 31-0431 EA Replacement Hinge Assembly For CAB7 Or 14 (EST4 4-HNG714).....	82.31	
28 46 13 31-0432 EA Replacement Door Lock And Two Keys (EST4 4-LOCK2KEY).....	170.28	
28 46 13 31-0433 EA Mounting Plate (EST4 4-MPLT).....	225.42	16.97
Note: Mounts in chassis or battery space		
28 46 13 31-0434 EA Tamper Switch For 3-CAB7B, 3-CAB14B And 3-CAB21B Cabinets With 4-CABXXD Series Doors (EST4 4-TAMP).....	120.38	33.94
Note: Mounts to side of cabinet.		
28 46 13 31-0435 EA Battery Cabinet, Black Backbox, Bronze Door (EST4 BC-1).....	330.95	67.89
Note: Supports up to 40AH batteries		
28 46 13 31-0436 EA Seismic Battery Hold Down For BC-1 (EST4 BC-1EQ).....	165.97	13.58
Note: Supports up to two 40 Ahr batteries. Order BC-1 or BC-1R Separately.		
28 46 13 31-0437 EA Battery Cabinet, Black Backbox, Red Door (EST4 BC-1R).....	330.95	67.89
Note: Supports up to 40AH batteries.		
28 46 13 31-0438 EA 8" x 14 x 3-1/2" Multi-Function Enclosure, Red (EST4 MFC-A).....	227.14	67.89
28 46 13 31-0439 Central Processing Unit (28 46 13 31-0394)		
28 46 13 31-0440 EA Annunciator Central Processor Unit (CPU) (EST4 4-ANNCPU).....	727.84	101.83
Note: Provides mounting for up to two network controllers, one USB device port, one USB host port and one 4-ANNAUDEL module.		
28 46 13 31-0441 EA Cable (EST4 4-CABL0542).....	135.47	16.97
Note: Interconnects the 4-CPU to the inner door rail when no 4-LCD display is installed in the cabinet.		
28 46 13 31-0442 EA Cable, USB 3.0 A-B, Male, Long (EST4 4-CABLUSBLG).....	83.54	16.97
28 46 13 31-0443 EA Common Relay Module (EST4 4-COMREL).....	86.76	16.97
28 46 13 31-0444 EA Central Processor Module (EST4 4-CPU).....	1,353.67	101.83
28 46 13 31-0445 EA EST4 Software License, 1 Seat (EST4 4-CUSWL).....	657.30	
28 46 13 31-0446 Control Display Modules (28 46 13 31-0394)		
28 46 13 31-0447 EA Control Display Module With 24 Indicators (EST4 4-24L).....	483.28	101.83
28 46 13 31-0448 EA Control Display Module With 24 Indicators And 12 Switches (EST4 4-24L12S).....	588.11	101.83
28 46 13 31-0449 EA Control Display Module With 24 Indicators And 18 Switches (EST4 4-24L18S).....	588.11	101.83
28 46 13 31-0450 EA Control Display Module With 24 Indicators And 24 Switches (EST4 4-24L24S).....	603.00	101.83
28 46 13 31-0451 EA Blank Filler Plate (EST4 4-FIL).....	36.87	16.97
28 46 13 31-0452 Liquid Crystal Display (LCD) Modules (28 46 13 31-0394)		
28 46 13 31-0453 EA LCD Display For EST3 Panels (EST4 4-3LCD).....	893.67	101.83
Note: Allows reuse of EST3 UI layer in retrofit applications. The 4-3LCD can be mounted in remote closet cabinets where an LCD display is needed. The display mounts on the 4-CPU module.		
28 46 13 31-0454 EA LCD With Cable For Annunciator Enclosure 4-4ANN, 4-6ANN Mounting (EST4 4-LCDANN).....	885.81	101.83
28 46 13 31-0455 EA Display, LCD Module For Audio/Telephone Control (EST4 4-LCDAUDEL).....	625.36	101.83
28 46 13 31-0456 EA Display, LCD Module With Cable For Audio/Telephone Control For Annunciators (EST4 4-LCDAUDELANN).....	696.75	101.83

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0457 EA Display, LCD Module With Cable For Audio/Telephone Control With Bracket For CAB 14 And CAB 21 (EST4 4-LCDAUDELTELCA-B)	752.00	101.83
28 46 13 31-0458 EA Display, LCD Module With Cable For Audio/ Telephone Control With Mounting Plate For CAB7, CAB14, CAB21, 4-16ANNMT And 4-24ANNMT Applications (EST4 4-LCDAUDELTELCA-MPLT)	880.48	101.83
28 46 13 31-0459 EA LCD With Cable For 3-CAB5B, 7B, 14B, 21B, 4-BANN, 16ANN And 24ANN Mounting (EST4 4-LCDLE)	883.80	101.83
28 46 13 31-0460 Network Accessories (28 46 13 31-0394)		
28 46 13 31-0461 EA Firewall (EST4 4-FWAL1)	460.11	
Note: Provides secure connection to external systems. Support us to 8 concurrent IP connections supports connection to 4-USBHUB with printer and/or CDR3, SFP connection to FireWorks and other supported external connections		
28 46 13 31-0462 EA Firewall W/DACT (EST4 4-FWAL2)	544.34	
Note: Provides secure connection to external systems. Support us to 8 concurrent IP connections supports connection to 4-USBHUB with printer and/or CDR3, SFP connection to FireWorks and other supported external connections		
28 46 13 31-0463 EA Firewall W/EMAIL (EST4 4-FWAL3)	521.34	
Note: Provides secure connection to external systems. Support us to 8 concurrent IP connections supports connection to 4-USBHUB with printer and/or CDR3, SFP connection to FireWorks and other supported external connections		
28 46 13 31-0464 EA Firewall W/DACT/ EMAIL/DIAG (EST4 4-FWAL4)	1,510.35	
Note: Provides secure connection to external systems. Support us to 8 concurrent IP connections supports connection to 4-USBHUB with printer and/or CDR3, SFP connection to FireWorks and other supported external connections		
28 46 13 31-0465 EA SFP Network Firewall Adapter, CAT5 UTP Copper, 100Base-TX, 100 Mbps (EST4 4-FWAL-CAT)	326.93	33.94
28 46 13 31-0466 EA SFP Network Firewall Adapter, Multimode, Dual-Fiber, 100Base-FX 1310nm (EST4 4-FWAL-MM)	426.52	33.94
28 46 13 31-0467 EA SFP Network Firewall Adapter, Single-Mode, Dual-Fiber, 100Base-LX10 1310nm (EST4 4-FWAL-SM)	1,042.55	33.94
28 46 13 31-0468 EA SFP Network Firewall Adapter, Single-Mode, Single-Fiber, Downlink, 100Base-BX10-D 1550nm/1310nm Tx/Rx (EST4 4-FWAL-SMD)	1,260.46	33.94
Note: Works with 4-FWAL-SMU		
28 46 13 31-0469 EA SFP Network Firewall Adapter, Single-Mode, Dual-Fiber, 100Base-High Output 1310nm (EST4 4-FWAL-SMH)	1,359.43	33.94
28 46 13 31-0470 EA SFP Network Firewall Adapter, Single-Mode, Single-Fiber, Uplink, 100Base-BX10-U 1310nm/1550nm Tx/Rx (EST4 4-FWAL-SMU)	1,260.46	33.94
Note: Works with 4-FWAL-SMD		
28 46 13 31-0471 EA Network Adder Module (EST4 4-NET-AD)	633.59	33.94
28 46 13 31-0472 EA SFP Network Controller, CAT5 UTP Copper, 100Base-TX, 100Mbps (EST4 4-NET-CAT)	499.54	101.83
28 46 13 31-0473 EA SFP Network Controller, Multimode, Dual-Fiber, 100Base-FX 1310nm (EST4 4-NET-MM)	625.58	101.83
28 46 13 31-0474 EA SFP Network Controller, Single-Mode, Dual-Fiber, 100Base-LX10 1310nm (EST4 4-NET-SM)	1,350.33	101.83
28 46 13 31-0475 EA SFP Network Controller, Single-Mode, Single-Fiber, Downlink, 100Base-BX10-D 1550nm/1310nm Tx/Rx (EST4 4-NET-SMD)	1,606.67	101.83
Note: Works with 4-NET-SMU		
28 46 13 31-0476 EA SFP Network Controller, Single-Mode, Dual-Fiber, 100Base-High Output 1310nm (EST4 4-NET-SMH)	1,723.12	101.83
28 46 13 31-0477 EA SFP Network Controller, Single-Mode, Single-Fiber, Uplink, 100Base-BX10-U 1310nm/1550nm Tx/Rx	1,606.67	101.83
Note: Works with 4-NET-SMD		
28 46 13 31-0478 EA SFP Network Controller, 2Mbps Shared TX/RX, Twisted Pair (EST4 4-NET-TP)	499.54	101.83
28 46 13 31-0479 EA SFP Network Controller, 0.3Mbps Shared TX/RX, High Capacitance Twisted Pair (EST4 4-NET-TP-HC)	710.65	101.83
28 46 13 31-0480 EA Network Extender Module (EST4 4-NET-XT)	2,214.57	33.94
Note: Mounts to DIN rail on 4-MPLT ordered separately		
28 46 13 31-0481 EA 4-USBHUB Multi-port USB Hub Module (EST4 4-USBHUB)	527.89	33.94
Note: Mounts in a ½ footprint module space and provides isolated RS-232 USB and terminal block connections for RS-232 to CDR connections.		
28 46 13 31-0482 EA Coder, PSNI (EST4 CDR-3)	612.48	33.94
Note: Positive, non-interfering, successive and march time codes PSNI code out (relay & tone outputs). March time out (relay & tone outputs). Connects to RS-232 serial port. Requires 1/2 size cabinet footprint and 24 VDC power.		
28 46 13 31-0483 EA Field Server Bridge Bracket For FSB-PC2 Or FSB-PCLW (EST4 FSB-BRKT2)	88.36	16.97
28 46 13 31-0484 EA ECPxmi To BMS/Elevator Bridge (EST4 FSB-PC4)	2,300.92	33.94
Note: Mounts on FSB-BRKT2, ordered separately.		
28 46 13 31-0485 EA ECPxmi To BMS/Elevator Bridge (EST4 FSB-PC4LW)	2,300.92	33.94
Note: Mounts on FSB-BRKT2, ordered separately.		
28 46 13 31-0486 EA Ground Fault Detection Module (EST4 GFD)	337.57	16.97
Note: One required for every two 3-NSHM1/2s.		
28 46 13 31-0487 EA Isolator Module, RS232 (EST4 IOP3A)	1,721.63	543.10
Note: For use with short haul modems, VDU-3, CCA Series, CGP Series and FCOM-232, requires 1/2 size cabinet footprint.		
28 46 13 31-0488 EA MN-FVPN, MN-ABPM, MN-PASM2, MN-COM1S, MN-NETRLY4 And/Or MN-FNS(4)(8) Series Switch Mounting Bracket For EST3 Enclosures (EST4 MN-BRKT1F)	263.46	16.97
28 46 13 31-0489 EA 24 VDC, 4 Fast Ethernet (RJ45), 2 GB SFP, Layer 3 Lite (EST4 MN-FNS4C2F3)	2,963.04	135.78
28 46 13 31-0490 EA MN-FNS4 Series Switch Holder Bracket (EST4 MN-FNS4HDK1)	132.50	16.97
Note: Used with MN-BRKT Series. One required per switch.		
28 46 13 31-0491 EA Desk Top Style, System Printer (EST4 PT-1S)	1,103.18	33.94
28 46 13 31-0492 Power Supplies (28 46 13 31-0394)		
28 46 13 31-0493 EA Primary Power Supply With Local Rail Module 120-240V 50/60 Hz (EST4 4-PPS/M)	1,083.11	16.97
28 46 13 31-0494 Remote Annunciators (28 46 13 31-0394)		
28 46 13 31-0495 EA LED/SWITCH Driver Module Assembly (EST4 3-EVDVRA)	740.07	101.83
Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.		
28 46 13 31-0496 EA Plastic Mounting Extrusion (EST4 3-EVDVRX)	131.74	33.94
Note: Mounts up to three 3-EVDVRA modules.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0497 EA Power Supply Assembly (EST4 3-EVPWRA).....	616.60	101.83
Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.		
28 46 13 31-0498 EA 16 Slots (2 rows of 8), Bronze Annunciator (EST4 4-16ANN).....	1,285.14	101.83
Note: Comes with 4-ANNCPU, Bronze outer and black inner doors. Order wall Mounting assembly 4-16ANNMT (Surface mount) or 3-CAB7B (semi-flush mount), required network Controllers 4-NET-XX series, end user interfaces and required filler plates separately.		
28 46 13 31-0499 EA Surface Mount Wall Box Assembly For Eight Wide By Two High Annunciators (16 spaces) (EST4 4-16ANNMT)	337.99	27.16
28 46 13 31-0500 EA 24 slots (3 rows of 8), Bronze Annunciator (EST4 4-24ANN)	1,380.37	101.83
Note: Comes with 4-ANNCPU, Bronze outer and black inner doors. Order wall mounting assembly 4-24ANNMT, required network Controllers 4-NET-XX series, and End User interfaces and required filler plates separately.		
28 46 13 31-0501 EA Surface Mount Wallbox Assembly For Eight Wide By Three High Annunciator (24 spaces) (EST4 4-24ANNMT)	449.90	27.16
28 46 13 31-0502 EA LCD Annunciator (EST4 4-2ANN)	1,573.70	101.83
Note: Comes with 4-LCDANN color touchscreen display, 4-ANNCPU, bronze outer door and black inner door. Order wallbox assembly model 4-2ANNMT and required network Controllers 4-NET-XX separately		
28 46 13 31-0503 EA Mounting Assembly For 4-2ANN, Two Wide Annunciator (EST4 4-2ANNMT)	189.81	50.91
Note: Supports surface or semiflush mounting. Comes with black wallbox, surface mounting plastic fillers and semi-flush trim.		
28 46 13 31-0504 EA Bronze Annunciator (EST4 4-4ANN)	915.29	101.83
Note: Supports 4 slots (1 row of 4). Comes with 4-ANNCPU, bronze outer door and black inner door. Order wall Mounting assembly 4-4ANNMT, required network controllers 4-NET-XX series, any user interfaces and filler plates separately.		
28 46 13 31-0505 EA Mounting Assembly For 4-4ANN, Four Wide annunciator (EST4 4-4ANNMT)	265.26	50.91
Note: Supports surface or semiflush mounting. Comes with black wallbox, surface mounting plastic fillers and semi-flush trim.		
28 46 13 31-0506 EA Bronze Annunciator, 6 Slots (1 row of 6) (EST4 4-6ANN)	952.06	101.83
Note: Comes with 4-ANNCPU, bronze outer door and black inner door. Order wall Mounting assembly 4-6ANNMT, required network Controllers 4-NET-XX series, any user interfaces and required filler plates separately.		
28 46 13 31-0507 EA Mounting Assembly For 4-6ANN, Six Wide Annunciator (EST4 4-6ANNMT)	303.23	50.91
Note: Supports surface or semiflush mounting. Comes with wallbox, surface mounting plastic fillers and semi-flush trip.		
28 46 13 31-0508 EA Bronze Annunciator, 8 Slots (2 rows of 4) (EST4 4-8ANN).....	1,101.95	101.83
Note: Comes with 4-ANNCPU, Bronze outer and black inner doors. Order wall Mounting assembly 4-8ANNMT (surface mounting), or 3-CAB5B (Semi-flush mounting) required network Controllers 4-NET-XX series, End User interfaces and required filler plates separately.		
28 46 13 31-0509 EA Mounting Assembly For 4-8ANN, Four Wide x Two Row High Annunciator (EST4 4-8ANNMT)	385.51	50.91
Note: Supports surface mounting.		
28 46 13 31-0510 EA Security Kit (EST4 4-ANNSK).....	40.85	
Note: Provides a keyless door latch that allows access to LCD and switches, used for security applications where the display needs to be accessed without the need for a tool to unlock the door for arming, disarming, bypass applications within the protected space.		
28 46 13 31-0511 EA Graphic Annunciator Central Processor Module (EST4 4-CPUGRPH)	1,537.67	101.83
28 46 13 31-0512 EA SFP Network Controller, CAT5 UTP Copper, 100Base-TX, 100Mbps (EST4 4-NET-CAT).....	499.54	101.83
28 46 13 31-0513 EA SFP Network Controller, Multimode, Dual-Fiber, 100Base-FX 1310nm (EST4 4-NET-MM).....	625.58	101.83
28 46 13 31-0514 EA SFP Network Controller, Single-Mode, Dual-Fiber, 100Base-LX10 1310nm (EST4 4-NET-SM).....	1,350.33	101.83
28 46 13 31-0515 EA SFP Network Controller, Single-Mode, Single-Fiber, Downlink, 100Base-BX10-D 1550nm/1310nm Tx/Rx (EST4 4-NET-SMD).....	1,606.67	101.83
Note: Works with 4-NET-SMU		
28 46 13 31-0516 EA SFP Network Controller, Single-Mode, Dual-Fiber, 100Base-High Output 1310nm (EST4 4-NET-SMH)	1,723.12	101.83
28 46 13 31-0517 EA SFP Network Controller, Single-Mode, Single-Fiber, Uplink, 100Base-BX10-U 1310nm/1550nm Tx/Rx (EST4 4-NET-SMU)	1,606.67	101.83
Note: Works with 4-NET-SMD		
28 46 13 31-0518 EA SFP Network Controller, 2 Mbps Shared TX/RX, Twisted Pair (EST4 4-NET-TP)	499.54	101.83
28 46 13 31-0519 EA SFP Network Controller, 0.3 Mbps Shared TX/RX, High Capacitance Twisted Pair (EST4 4-NET-TP-HC).....	710.65	101.83
28 46 13 31-0520 Miscellaneous (28 46 13 31-0394)		
28 46 13 31-0521 EA Service Replacement Bronze Annunciator Door (EST4 4-2ANNND)	230.03	
Note: For 4-2ANN annunciators includes the inner and outer doors.		
28 46 13 31-0522 EA Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-2ANNFA).....	84.22	
Note: For 4-2ANN annunciators		
28 46 13 31-0523 EA Service Replacement Bronze Annunciator Door (EST4 4-4ANNND)	249.38	
Note: For 4-4ANN annunciators includes the inner and outer doors.		
28 46 13 31-0524 EA Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-4ANNFA).....	119.48	
Note: For 4-4ANN annunciators.		
28 46 13 31-0525 EA Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-4X2ANNFA)	183.88	
Note: For 4-8ANN annunciators and 4-CAB5D door assemblies.		
28 46 13 31-0526 EA Service Replacement Bronze Annunciator Door (EST4 4-6ANNND)	278.47	
Note: For 4-6ANN annunciators, includes the inner and outer door		
28 46 13 31-0527 EA Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-6ANNFA).....	137.89	
Note: For 4-6ANN annunciators.		
28 46 13 31-0528 EA Service Replacement Part, Plastic Frame Assembly With Mounting Screws (EST4 4-8ANNFA).....	183.88	
Note: For 4-CAB16D and 4-CAB21D(L) door assemblies.		
28 46 13 31-0529 EA Annunciator Central Processor Unit (CPU) (EST4 4-ANNCPU).....	727.84	101.83
Note: Provides mounting for up to two network controllers, one USB device port, one USB host port and one 4-ANNAUDTEL module.		
28 46 13 31-0530 EA Service Replacement Cable, 4-LCD To 4-CPU Flex Interconnect Cable (EST4 4-CABL0502).....	118.72	
Note: For CAB5, 7, 14, 21.		
28 46 13 31-0531 EA Service Replacement Cable, 4-LCD To 4-ANNCPU Cable (EST4 4-CABL0504).....	107.22	
Note: For use in 4-2ANN, 4ANN, 6ANN annunciator configuration.		
28 46 13 31-0532 EA Chassis To Door Rail Cable (EST4 4-CABL0505).....	97.03	10.18
Note: For 4-CAB16D, 4-CAB24D or 4-CAB24DL use when no LCD display is required.		
28 46 13 31-0533 EA Chassis To Door Rail Cable (EST4 4-CABL0507).....	97.03	10.18
Note: For 4-CAB8D when no LCD is required.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0534 EA Cable, 4-LCDAUDTEL To 4-ANNCPU (EST4 4-CABL0509).....	104.89	10.18
Note: For 4-MPLT for CAB7, CAB14, or CAB21		
28 46 13 31-0535 EA Service Replacement Cable, 4-3LCD To 4-CPU Cable (EST4 4-CABL0541).....	103.48	
Note: For use in 3-CAB5B, 7B, 14B, 21B, RCC series.		
28 46 13 31-0536 EA Cable, USB 3.0 A-B, Male, Short (EST4 4-CABLUSBSM)	51.03	10.18
28 46 13 31-0537 EA Window Replacement (EST4 4-CABWIN16/24)	267.78	
Note: For 4-CAB16D and 4-CAB24D doors		
28 46 13 31-0538 EA Main Color Touchscreen LCD Display (EST4 4-LCD)	817.00	101.83
28 46 13 31-0539 EA Power Limited Label (EST4 4-PL0457)	24.34	6.78
Note: For EST3 updates.		
28 46 13 31-0540 Zone Audio Amplifiers (28 46 13 31-0394)		
28 46 13 31-0541 EA Zoned Amplifier, 20 Watt, Class A/B (EST4 3-ZA20A)	848.80	27.16
Note: 20 Watt selectable for 25 or 70 Vrms Class A/B Output. Mounts in 1 LRM space. Has built in Class A/B NAC rated at 3.5 Amps. Supports one user interface module.		
28 46 13 31-0542 EA Zoned Amplifier, 20 Watt, Class B (EST4 3-ZA20B).....	782.98	27.16
Note: 20 Watt selectable for 25 or 70 Vrms Class B Output. Mounts in 1 LRM space. Has built in Class B NAC rated at 3.5 Amps. Supports one user interface module.		
28 46 13 31-0543 EA Zoned Amplifier, 40 Watt, Class A/B (EST4 3-ZA40A)	1,046.07	27.16
Note: 40 Watt selectable for 25 or 70 Vrms Class A/B Output. Mounts in 1 LRM space. Has built in Class A/B NAC rated at 3.5 Amps. Supports one user interface module.		
28 46 13 31-0544 EA Zoned Amplifier, 40 Watt, Class B (EST4 3-ZA40B).....	963.08	27.16
Note: 40 Watt selectable for 25 or 70 Vrms Class B Output. Mounts in 1 LRM space. Has built in Class B NAC rated at 3.5 Amps. Supports one user interface module.		
28 46 13 31-0545 EA Zoned Amplifier, 95 Watt, Class B (EST4 3-ZA95).....	2,013.54	27.16
Note: 95 Watt selectable for 25 or 70 Vrms Class B Output. Mounts in 2 LRM spaces. Supports two user interface modules.		
28 46 13 31-0546 Simplex Fire Alarm (28 46 13 31)		
28 46 13 31-0547 4100 Fire Alarm Control Panel (28 46 13 31-0546)		
28 46 13 31-0548 EA 4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACS, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111)	7,408.51	677.39
28 46 13 31-0549 EA 4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 Volt AC Input (Simplex 4100-9141)	8,081.63	677.39
28 46 13 31-0550 EA 4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142)	11,607.08	677.39
28 46 13 31-0551 EA Up To 127 Points, IDNet Module, (Simplex 4100-3104)	4,763.30	677.39
Note: Add-on module.		
28 46 13 31-0552 EA Up To 64 Points, IDNet Module, (Simplex 4100-3105)	3,736.76	677.39
Note: Add-on module.		
28 46 13 31-0553 EA Expansion Power Supply, 3 NACs, 120 Volt AC (Simplex 4100-5101)	2,353.19	169.34
Note: Add-on module.		
28 46 13 31-0554 EA Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033)	492.21	33.87
Note: Add-on module.		
28 46 13 31-0555 EA Dual Port RS-232 Interface Card (Simplex 4100-6038).....	1,410.76	33.87
Note: Add-on module.		
28 46 13 31-0556 4100U Back Box (28 46 13 31-0546)		
28 46 13 31-0557 EA 2 Bay Back Box With Glass Door And Dress Panel (Simplex 2975-9425)	2,448.96	135.48
Note: 24" x 40" beige backbox.		
28 46 13 31-0558 EA 3 Bay Back Box With Glass Door And Dress Panel (Simplex 2975-9443)	3,447.65	135.48
Note: 24" x 56" beige backbox.		
28 46 13 31-0559 DACT (Digital Alarm Communicator Transmitter) (28 46 13 31-0546)		
28 46 13 31-0560 EA 6 Zone Fire Control Communicator (Silent Knight SK-5104)	1,340.71	67.74
28 46 13 31-0561 4010 Fire Alarm Control Panel (28 46 13 31-0546)		
28 46 13 31-0562 EA 120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101)	6,995.83	677.39
28 46 13 31-0563 EA 240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201).....	6,791.32	677.39
28 46 13 31-0564 EA Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806).....	253.62	33.87
28 46 13 31-0565 EA Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811)	1,099.11	33.87
28 46 13 31-0566 EA Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812)	1,510.93	33.87
28 46 13 31-0567 EA 120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813)	776.59	33.87
28 46 13 31-0568 EA 240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823)	840.34	33.87
28 46 13 31-0569 EA Battery Meter Module Expansion Module (Simplex 4010-9820).....	315.56	33.87
28 46 13 31-0570 Printer (28 46 13 31-0546)		
28 46 13 31-0571 EA 24 Pin Dot Matrix Printer (Simplex 4190-9013).....	2,433.03	33.87

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0572		NAC Panel / Power Booster (28 46 13 31-0546)			
28 46 13 31-0573	EA	120 Volt AC, IDNet NAC Extender With 4, Class B (Style Y) NACs And 8 Amperes Power Supply (Simplex 4009-9201) Note: Power supply for horns and strobes.		1,575.48	169.34
28 46 13 31-0574		Battery (28 46 13 31-0546)			
28 46 13 31-0575	EA	50 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9296) Note: Two required for 24 volt DC.		984.17	33.87
28 46 13 31-0576	EA	33 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9276) Note: Two required for 24 volt DC.		653.92	33.87
28 46 13 31-0577	EA	6.2 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9272) Note: Two required for 24 volt DC.		235.62	33.87
28 46 13 31-0578		Interface Modules (28 46 13 31-0546)			
28 46 13 31-0579	EA	Supervised Individual Addressable Modules (Simplex 4090-9001) Note: Monitor modules for waterflow / tamper, etc.		190.24	33.87
28 46 13 31-0580	EA	Relay Individual Addressable Modules (Simplex 4090-9002) Note: Control modules for gas shutdown, door holders, etc.		394.09	33.87
28 46 13 31-0581	EA	Relay SPDT With LED MR-801/T (Simplex 2088-9032) Note: Interface relay for 120VAC		94.20	33.87
28 46 13 31-0582	EA	SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815)		192.48	33.87
28 46 13 31-0583	EA	Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817).....		85.66	16.93
28 46 13 31-0584	EA	Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818)		81.34	16.93
28 46 13 31-0585		Pull Stations (28 46 13 31-0546)			
28 46 13 31-0586	EA	Addressable Single Action Manual Pull Station (Simplex 4099-9001)		233.97	33.87
28 46 13 31-0587	EA	N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101)		167.02	33.87
28 46 13 31-0588	EA	N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102)		179.96	33.87
28 46 13 31-0589	EA	Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103)		161.19	33.87
28 46 13 31-0590	EA	N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104)		188.60	33.87
28 46 13 31-0591	EA	N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105)		287.09	33.87
28 46 13 31-0592	EA	Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107)		240.39	33.87
28 46 13 31-0593	EA	Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108)		283.55	33.87
28 46 13 31-0594	EA	Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754)		131.05	33.87
28 46 13 31-0595	EA	Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755)		138.95	33.87
28 46 13 31-0596	EA	Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756)		164.39	33.87
28 46 13 31-0597	EA	N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758)		256.84	33.87
28 46 13 31-0598	EA	Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759)		445.92	33.87
28 46 13 31-0599	EA	Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762)		145.44	33.87
28 46 13 31-0600	EA	Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178)		89.99	16.93
28 46 13 31-0601		Weatherproof Pull Stations (28 46 13 31-0546)			
28 46 13 31-0602	EA	Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138)		228.07	40.64
28 46 13 31-0603	EA	Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211)		147.33	16.93
28 46 13 31-0604		Heat / Smoke Sensor (28 46 13 31-0546)			
28 46 13 31-0605	EA	32 To 122 Degree F Heat Sensor (Simplex 4098-9733)		228.76	50.80
28 46 13 31-0606	EA	Photoelectric Smoke Sensor (Simplex 4098-9714)		334.71	50.80
28 46 13 31-0607	EA	Sensor Base With Relay Driver (Simplex 4098-9791)		657.50	16.93
28 46 13 31-0608	EA	Standard Sensor Base (Simplex 4098-9792)		333.60	16.93
28 46 13 31-0609	EA	Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737)		191.03	33.87
		Note: Relay for 4098-9791			
28 46 13 31-0610		Explosion Proof Heat Detector (28 46 13 31-0546)			
28 46 13 31-0611	EA	135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488)		242.31	50.80
28 46 13 31-0612	EA	Explosion Proof Back Box (Killark J LX-21)		159.07	16.93
28 46 13 31-0613	EA	Explosion Proof Back Box Plugs (Killark CUP-2)		14.42	3.39
28 46 13 31-0614		Weatherproof Heat Detector (28 46 13 31-0546)			
28 46 13 31-0615	EA	194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490)		174.23	50.80
28 46 13 31-0616		200 Degree F Heat Detector (28 46 13 31-0546)			
28 46 13 31-0617	EA	194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604)		143.80	50.80
		Note: Used in kiln rooms and kitchens.			

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0618 Duct Smoke Sensor (28 46 13 31-0546)		
28 46 13 31-0619 EA Duct Sensor Housing (Simplex 4098-9755).....	530.79	27.10
28 46 13 31-0620 EA Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756).....	714.31	60.96
Note: Relay output for AHU shutdown.		
28 46 13 31-0621 EA 46" To 71" Duct Sampling Tube (Simplex 2098-9798).....	78.89	16.93
Note: 25", 49", 73" or 97" sampling tube length.		
28 46 13 31-0622 EA Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806).....	187.07	50.80
28 46 13 31-0623 Interior Horn (28 46 13 31-0546)		
28 46 13 31-0624 EA Red With White FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850).....	172.91	50.80
28 46 13 31-0625 EA White With Red FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853).....	172.91	50.80
28 46 13 31-0626 Interior Horn Strobe (28 46 13 31-0546)		
28 46 13 31-0627 EA 75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426).....	240.24	50.80
28 46 13 31-0628 EA 110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427).....	240.24	50.80
28 46 13 31-0629 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127).....	224.88	50.80
28 46 13 31-0630 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128).....	224.88	50.80
28 46 13 31-0631 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129).....	224.88	50.80
28 46 13 31-0632 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130).....	224.88	50.80
28 46 13 31-0633 EA Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131).....	230.03	50.80
28 46 13 31-0634 EA Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132).....	230.03	50.80
28 46 13 31-0635 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139).....	239.08	50.80
28 46 13 31-0636 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140).....	234.91	50.80
28 46 13 31-0637 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141).....	239.08	50.80
28 46 13 31-0638 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142).....	234.91	50.80
28 46 13 31-0639 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227).....	224.88	50.80
28 46 13 31-0640 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228).....	224.88	50.80
28 46 13 31-0641 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229).....	224.88	50.80
28 46 13 31-0642 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230).....	224.88	50.80
28 46 13 31-0643 Interior Strobe (28 46 13 31-0546)		
28 46 13 31-0644 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101).....	192.25	50.80
28 46 13 31-0645 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	192.25	50.80
28 46 13 31-0646 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103).....	192.18	50.80
28 46 13 31-0647 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	192.25	50.80
28 46 13 31-0648 EA Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105).....	211.76	50.80
28 46 13 31-0649 EA Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106).....	211.76	50.80
28 46 13 31-0650 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109).....	213.01	50.80
28 46 13 31-0651 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	216.41	50.80
28 46 13 31-0652 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111).....	216.41	50.80
28 46 13 31-0653 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	216.41	50.80
28 46 13 31-0654 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	192.25	50.80
28 46 13 31-0655 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	192.25	50.80
28 46 13 31-0656 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	192.25	50.80
28 46 13 31-0657 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	192.25	50.80
28 46 13 31-0658 Interior Speakers (28 46 13 31-0546)		
28 46 13 31-0659 EA Red With White FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	156.39	50.80
28 46 13 31-0660 EA White With Red FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	156.39	50.80
28 46 13 31-0661 EA Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	156.39	50.80

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0662		Interior Speaker Strobe (28 46 13 31-0546)		
28 46 13 31-0663	EA	Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151).....	255.45	50.80
28 46 13 31-0664	EA	White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153).....	255.45	50.80
28 46 13 31-0665		Surge Suppressors (28 46 13 31-0546)		
28 46 13 31-0666	EA	Overvoltage Suppressor (Simplex 2081-9044).....	165.62	10.16
28 46 13 31-0667	EA	Isolated Loop Circuit Protector (Simplex 2081-9028).....	105.83	10.16
28 46 13 31-0668	EA	120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	355.11	10.16
28 46 13 31-0669	EA	24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHLP24B).....	121.24	10.16
28 46 13 31-0670	EA	Mounting Base For Two DTK-2MHLP (Ditek DTK-2MB).....	182.66	16.93
28 46 13 31-0671	EA	120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	124.30	10.16
28 46 13 31-0672	EA	<105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	93.48	10.16
28 46 13 31-0673		Boxes And Adapters (28 46 13 31-0546)		
28 46 13 31-0674	EA	Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	81.34	16.93
28 46 13 31-0675	EA	Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	77.03	16.93
28 46 13 31-0676	EA	Red, Surface Mount Adapter Skirt (Simplex 4905-9937).....	68.57	16.93
28 46 13 31-0677	EA	White, Surface Mount Adapter Skirt (Simplex 4905-9940).....	56.56	16.93
28 46 13 31-0678		Accessories (28 46 13 31-0546)		
28 46 13 31-0679	EA	End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008).....	38.89	16.93
28 46 13 31-0680		Siemens Fire Alarm (28 46 13 31)		
28 46 13 31-0681		Conventional Control Panels (28 46 13 31-0680)		
28 46 13 31-0682		SXL Batteries And Power Supplies (28 46 13 31-0681)		
28 46 13 31-0683	EA	6 Amperes Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3).....	1,400.23	67.74
28 46 13 31-0684	EA	Main Board Only For PAD-3 (Siemens PAD-3-MB).....	1,127.44	67.74
28 46 13 31-0685		Digital Fire Communicators (28 46 13 31-0681)		
28 46 13 31-0686	EA	Four Channel Digital Slave Fire Communicator (Siemens 5129).....	1,091.48	67.74
28 46 13 31-0687		Addressable Control Panels (28 46 13 31-0680)		
28 46 13 31-0688		Fireseeker Equipment (28 46 13 31-0687)		
28 46 13 31-0689		FS-250 System Panels (28 46 13 31-0688)		
28 46 13 31-0690	EA	FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT).....	3,358.54	677.39
		Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.		
28 46 13 31-0691	EA	FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT).....	4,191.79	677.39
		Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0692	EA	FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT).....	2,497.37	541.91
		Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0693	EA	Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON).....	3,363.50	677.39
28 46 13 31-0694		FS-250 Optional Modules (28 46 13 31-0688)		
28 46 13 31-0695	EA	Main Board Module (Siemens FS-MB2).....	1,410.15	67.74
28 46 13 31-0696	EA	Display Board Module (Siemens FS-DB2).....	1,099.38	33.87
28 46 13 31-0697	EA	Device Loop Card (Siemens FS-DLC).....	900.99	33.87
28 46 13 31-0698	EA	Releasing Module (Siemens FS-REL).....	400.05	33.87
28 46 13 31-0699	EA	Remote LCD Annunciator (Siemens FS-RD2).....	894.79	33.87
28 46 13 31-0700	EA	Relay Processor Card (Siemens FS-RU2).....	776.99	33.87
28 46 13 31-0701	EA	Relay Expander Board (Siemens FS-RE8).....	662.92	33.87
28 46 13 31-0702	EA	Serial Annunciator Processor Card (Siemens FS-SAU2).....	894.79	33.87
28 46 13 31-0703	EA	16 Output Annunciator Extender (Siemens FS-SAE16).....	697.63	33.87
28 46 13 31-0704	EA	Digital Alarm Communication Transmitter (Siemens FS-DACT).....	634.40	33.87
28 46 13 31-0705	EA	Municipal Tie Module (Siemens FS-MT).....	538.92	33.87
28 46 13 31-0706	EA	Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2).....	491.35	
28 46 13 31-0707	EA	Programming Cable Kit (Siemens CBL-UD).....	129.35	16.93
28 46 13 31-0708	EA	Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE).....	232.65	33.87
28 46 13 31-0709	EA	Releasing Power Transformer (Siemens FS-RPT-A).....	236.37	33.87
28 46 13 31-0710	EA	Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB).....	267.46	27.10
28 46 13 31-0711	EA	Cabinet Trim Kit (Siemens RD-CAB-TK).....	435.61	16.93

**Electronic Safety and Security****28****Life Safety****28 40****Fire Detection and Alarm****28 46****28**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0712 Firefinder Systems (28 46 13 31-0687)		
28 46 13 31-0713 XLS Basic Fire System Packages Without Back Box (28 46 13 31-0712)		
28 46 13 31-0714 EA 500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP).....	11,826.91	677.39
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 13 31-0715 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP).....	10,410.89	677.39
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 13 31-0716 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP).....	10,410.89	677.39
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 13 31-0717 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD).....	17,448.85	677.39
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
28 46 13 31-0718 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD).....	18,036.58	677.39
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		
28 46 13 31-0719 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP).....	10,268.30	677.39
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 13 31-0720 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	10,268.30	677.39
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 13 31-0721 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	11,924.87	677.39
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 13 31-0722 Firefinder - XLS Basic System Equipment (28 46 13 31-0712)		
28 46 13 31-0723 EA Person Machine Interface With Central Processor (Siemens PMI).....	5,487.53	677.39
Note: Includes inner door.		
28 46 13 31-0724 EA Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	9,146.63	677.39
Note: Includes inner door.		
28 46 13 31-0725 EA Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT).....	5,487.53	677.39
Note: Includes inner door.		
28 46 13 31-0726 EA Two Slot Card Cage (Siemens CC-2).....	682.76	33.87
28 46 13 31-0727 EA Five Slot Card Cage (Siemens CC-5).....	1,155.18	33.87
28 46 13 31-0728 EA Four Circuit Zone Indicating Card (Siemens ZIC-4A).....	1,651.16	33.87
28 46 13 31-0729 EA Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	1,724.31	33.87
28 46 13 31-0730 EA Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	543.88	33.87
28 46 13 31-0731 EA Device Loop Card (Siemens DLC).....	1,957.42	33.87
Note: Interfaces with up to 252 detectors and devices.		
28 46 13 31-0732 EA Controllable Relay Card (Siemens CRC-6).....	1,108.06	33.87
Note: Provides six programmable relays.		
28 46 13 31-0733 EA 12 Amperes Power Supply Charger Module (Siemens PSC-12).....	4,200.49	33.87
28 46 13 31-0734 EA Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI).....	7,141.63	677.39
Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		
28 46 13 31-0735 EA Network Interface Card (Siemens NIC-C).....	1,296.53	33.87
Note: Provides HNET Or XNET communication between enclosures.		
28 46 13 31-0736 EA 12 Amperes Power Supply Extender (Siemens PSX-12).....	3,493.72	33.87
Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 13 31-0737 EA Power Termination Board (Siemens PTB).....	588.52	33.87
Note: Used with systems requiring more than one PSX-12.		
28 46 13 31-0738 EA Conventional Detector Card (Siemens CDC-4).....	1,249.41	33.87
28 46 13 31-0739 EA Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	2,448.44	33.87
28 46 13 31-0740 EA Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS).....	8,806.91	33.87
28 46 13 31-0741 Remote Lobby Enclosure (28 46 13 31-0712)		
28 46 13 31-0742 EA 14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2).....	1,618.78	135.48
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 13 31-0743 EA 24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4).....	2,089.96	135.48
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 13 31-0744 EA Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP).....	257.45	33.87
Note: Required to mount up to four SIM-16 or OCM-16 modules.		
28 46 13 31-0745 EA Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP).....	281.01	33.87
Note: Required to mount up to eight SIM-16 or OCM-16 modules.		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0746		Battery Enclosures (28 46 13 31-0712)		
28 46 13 31-0747	EA	Enclosure For 100 Ampere Hours Batteries (Siemens CAB-BATT)	1,003.76	135.48
28 46 13 31-0748		Graphic Annunciator Output Drivers And Inputs (28 46 13 31-0712)		
28 46 13 31-0749	EA	Output Control Module (Siemens OCM-16)	800.55	33.87
28 46 13 31-0750	EA	Supervised Input Module (Siemens SIM-16)	800.55	33.87
28 46 13 31-0751		Remote LCD Displays (28 46 13 31-0712)		
28 46 13 31-0752	EA	Remote LED/LCD System Status Display (Siemens SSD)..... Note: No control or menu capability.	1,856.06	101.61
28 46 13 31-0753	EA	Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C)	2,092.89	101.61
28 46 13 31-0754		Voice Equipment (28 46 13 31-0712)		
28 46 13 31-0755	EA	40 Watts Zone Amplifier Card (Siemens ZAC-40)	1,843.35	33.87
28 46 13 31-0756	EA	180 Watts Zone Amplifier Module (Siemens ZAM-180)	4,083.94	33.87
28 46 13 31-0757	EA	Live Voice Module (Siemens LVM)	1,720.59	33.87
		Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.		
28 46 13 31-0758		MXL Series Equipment (28 46 13 31-0687)		
28 46 13 31-0759		MXL Optional Equipment (28 46 13 31-0758)		
28 46 13 31-0760	EA	Two Circuit Analog Loop Driver (Siemens ALD-21)	1,985.49	67.74
28 46 13 31-0761	EA	CXL/MXL Interface Module (Siemens CMI-300)	5,126.74	33.87
28 46 13 31-0762	EA	Four Relay Programmable Relay Module (Siemens CRM-4)	881.15	33.87
28 46 13 31-0763	EA	Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4)	1,063.42	33.87
28 46 13 31-0764	EA	Remote Conventional Zone Module (Siemens CZM-1B6)	401.29	33.87
28 46 13 31-0765	EA	Short Circuit Line Isolator Module (Siemens Model LIM-1)	248.77	33.87
28 46 13 31-0766	EA	Four Circuit Conventional Zone Module (Siemens CZM-4)	1,034.90	33.87
28 46 13 31-0767	EA	12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD)	374.40	50.80
28 46 13 31-0768	EA	Lexan Window For RCC (Siemens GENBOX-WD)	253.82	27.10
28 46 13 31-0769	EA	Input Driver Module (Siemens MID-16)	679.04	33.87
28 46 13 31-0770	EA	Programmable Output Driver Module (Siemens MOD-16)	679.04	33.87
28 46 13 31-0771	EA	MXL Output/Input Module (Siemens MOI-7)	1,085.74	33.87
28 46 13 31-0772	EA	Two Slot Network Option Module Card Cage (Siemens MOM-2)	578.60	33.87
28 46 13 31-0773	EA	Four Slot Network Option Module Card Cage (Siemens MOM-4)	909.67	33.87
28 46 13 31-0774	EA	12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220)	2,237.97	101.61
28 46 13 31-0775	EA	12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240)	2,237.97	101.61
28 46 13 31-0776	EA	Network Interface Module (Siemens NIM-1W)	1,618.92	33.87
28 46 13 31-0777	EA	U.L. Listed Parallel Printer (Siemens PAL-1)	4,238.79	135.48
28 46 13 31-0778	EA	Peripheral Interface Module, Model PIM-1 (Siemens 500-691324)	475.68	33.87
28 46 13 31-0779	EA	Surface Mounted Remote Command Center (Siemens RCC-1)	4,659.25	677.39
28 46 13 31-0780	EA	Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL)	573.18	67.74
28 46 13 31-0781	EA	Flush Mounted Remote Command Center (Siemens RCC-1F)	4,659.25	677.39
28 46 13 31-0782	EA	Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL)	588.06	67.74
28 46 13 31-0783	EA	Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2)	3,586.69	677.39
28 46 13 31-0784	EA	MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3)	5,358.58	677.39
28 46 13 31-0785	EA	RCC-2/RSE-1 Trim Ring (Siemens RCF-1)	89.67	16.93
28 46 13 31-0786	EA	Remote Diagnostics Module For MXL (Siemens RDM-MXL)	6,583.22	67.74
28 46 13 31-0787	EA	Remote Diagnostics Module For PC (Siemens RDM-PC)	14,019.20	67.74
28 46 13 31-0788	EA	Releasing End Of Line Module (Siemens REL-EOL)	202.89	33.87
28 46 13 31-0789	EA	36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC)	4,198.80	67.74
28 46 13 31-0790	EA	36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL)	4,009.08	67.74
28 46 13 31-0791	EA	8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1)	2,132.11	135.48
28 46 13 31-0792		Complete MXL And MXLV System Packages Without Enclosure (28 46 13 31-0758)		
28 46 13 31-0793	EA	MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB- 2, One MPS-6, One MOM-2, One ALD-21 And One PIM-1 (Siemens MXL-SS-EP)	15,416.57	677.39
		Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-21 is a two circuit analog loop driver. PIM-1 is a peripheral interface module.		
28 46 13 31-0794	EA	MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM- 2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP)	20,063.90	677.39
		Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.		
28 46 13 31-0795	EA	MXLV Demonstration Panel (Siemens MXLV DEMO)	41,767.98	677.39

**Electronic Safety and Security****28****Life Safety****28 40****Fire Detection and Alarm****28 46****28**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0796 MXL Basic System (28 46 13 31-0758)		
28 46 13 31-0797 EA MXL/MXLV Main Control Board (Siemens MMB-3)	9,568.96	677.39
28 46 13 31-0798 EA MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL).....	12,345.21	677.39
Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.		
28 46 13 31-0799 EA MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2)	3,541.62	67.74
28 46 13 31-0800 EA MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5)	4,436.87	67.74
28 46 13 31-0801 EA 6 Amperes Power Supply For MXL (Siemens MPS-6)	1,542.36	101.61
28 46 13 31-0802 EA 220/240 Volt AC Adapter Cable (Siemens CIA-12)	114.47	16.93
28 46 13 31-0803 MXL/MXLR System Expansion Accessories (28 46 13 31-0758)		
28 46 13 31-0804 EA MXL Remote Power Supply Module (Siemens PSR-1)	1,893.26	101.61
28 46 13 31-0805 EA Style 4 Communication Module (Siemens NET-4).....	388.89	33.87
28 46 13 31-0806 EA Style 7 Communication Module (Siemens NET-7).....	707.55	33.87
28 46 13 31-0807 EA MXL/MXL-IQ/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6).....	424.85	33.87
28 46 13 31-0808 Peripheral Devices (28 46 13 31-0687)		
28 46 13 31-0809 Thermal Detectors (28 46 13 31-0808)		
28 46 13 31-0810 EA Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R)	162.37	50.80
28 46 13 31-0811 EA Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R)	162.37	50.80
28 46 13 31-0812 EA 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	162.37	50.80
28 46 13 31-0813 EA 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	162.37	50.80
28 46 13 31-0814 EA Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	255.36	50.80
28 46 13 31-0815 EA Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	255.36	50.80
28 46 13 31-0816 EA Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP)	631.07	50.80
28 46 13 31-0817 Beam Smoke Detector (28 46 13 31-0808)		
28 46 13 31-0818 EA Linear Beam Smoke Detector (Siemens PBA-1191)	2,987.09	50.80
28 46 13 31-0819 EA Base For Linear Beam Smoke Detector (Siemens PBB-1191).....	341.38	16.93
28 46 13 31-0820 EA 20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192)	345.10	16.93
28 46 13 31-0821 EA 10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193)	176.46	16.93
28 46 13 31-0822 Bases For Detectors (28 46 13 31-0808)		
28 46 13 31-0823 EA Detector Base (Siemens DB-11).....	52.47	16.93
28 46 13 31-0824 EA Universal Base (Siemens DB-3S).....	48.75	16.93
28 46 13 31-0825 Manual Stations (28 46 13 31-0808)		
28 46 13 31-0826 EA Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP)	377.64	40.64
28 46 13 31-0827 Addressable Devices (28 46 13 31-0687)		
28 46 13 31-0828 Intelligent Detectors And Devices For Firefinder XLS And FS-250 (28 46 13 31-0827)		
28 46 13 31-0829 EA Addressable Fireprint Fire Detector (Siemens HFP-11)	314.88	50.80
28 46 13 31-0830 EA Addressable Thermal Fire Detector (Siemens HFPT-11)	271.48	50.80
28 46 13 31-0831 EA Relay Base For H-Series Intelligent Detectors (Siemens DB-HR)	220.65	50.80
28 46 13 31-0832 EA Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC)	147.49	50.80
28 46 13 31-0833 EA Wall Mounted Remote Alarm Indicator (Siemens RL-HW)	147.49	50.80
28 46 13 31-0834 EA Addressable Single Action Manual Pull Station (Siemens HMS-S)	329.37	33.87
28 46 13 31-0835 EA Addressable Double Action Manual Pull Station (Siemens HMS-D).....	314.49	33.87
28 46 13 31-0836 EA Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S).....	248.77	33.87
28 46 13 31-0837 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D)	304.57	33.87
28 46 13 31-0838 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R)	304.57	33.87
28 46 13 31-0839 EA Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M).....	230.17	33.87
28 46 13 31-0840 EA Line Isolator Module (Siemens HLIM).....	237.61	33.87
28 46 13 31-0841 EA Remote Convention Zone Module (Siemens HZM)	351.69	33.87
28 46 13 31-0842 EA Intelligent Control Point Module (Siemens HCP)	445.92	33.87
28 46 13 31-0843 EA Handheld Programming And Testing Unit (Siemens DPU).....	1,968.19	
28 46 13 31-0844 EA DPU Carrying Case (Siemens DPU-C1).....	303.03	
28 46 13 31-0845 EA Label Printer And Carrying Case (Siemens DPU-PR1).....	3,370.97	33.87
28 46 13 31-0846 Air Duct Housings And Detectors (28 46 13 31-0827)		
28 46 13 31-0847 EA Air-Duct Housing (Siemens AD2-P).....	360.46	27.10
28 46 13 31-0848 EA Air-Duct Housing With Relay (Siemens AD2-XHR)	407.58	27.10
28 46 13 31-0849 EA Weatherproof Enclosure For Duct Housing (Siemens WP-2000)	326.89	33.87
28 46 13 31-0850 EA 6" To 1' Duct Sampling Tube (Siemens ST-10)	45.12	10.16
28 46 13 31-0851 EA >1' To 3' Duct Sampling Tube (Siemens ST-25).....	55.62	13.55
28 46 13 31-0852 EA >3' To 5' Duct Sampling Tube (Siemens ST-50).....	69.83	16.93
28 46 13 31-0853 EA >5' To 10' Duct Sampling Tube (Siemens ST-100).....	81.56	20.32
28 46 13 31-0854 Intelligent Initiating Devices For MXL, MXL-LQ And MXLV (28 46 13 31-0827)		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0855 EA Addressable Fireprint Fire Detector (Siemens FP-11).....	328.52	50.80
28 46 13 31-0856 EA Addressable Thermal Fire Detector (Siemens FPT-11).....	282.64	50.80
28 46 13 31-0857 EA Intelligent Ionization Smoke Detector (Siemens ILI-1).....	363.24	50.80
28 46 13 31-0858 EA Addressable Single Action Manual Pull Station (Siemens MSI-10B).....	320.69	33.87
28 46 13 31-0859 EA Addressable Double Action Manual Pull Station (Siemens MSI-20B).....	354.17	33.87
28 46 13 31-0860 EA Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S).....	324.41	33.87
28 46 13 31-0861 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D).....	359.13	33.87
28 46 13 31-0862 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R).....	359.13	33.87
28 46 13 31-0863 Detector Universal Bases (28 46 13 31-0827)		
28 46 13 31-0864 EA Detector Base With Relay (Siemens DB-X11RS).....	151.67	16.93
28 46 13 31-0865 EA PE-11 To DB-3 Base Adapter (Siemens DB-ADPT).....	77.27	16.93
28 46 13 31-0866 EA Locking Kit (Siemens LK-11).....	14.54	
28 46 13 31-0867 EA Detector Base With Relay (Siemens DB-X3RS).....	151.67	16.93
28 46 13 31-0868 EA Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11).....	176.46	16.93
28 46 13 31-0869 EA Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX).....	73.55	16.93
28 46 13 31-0870 EA Flush Trim Ring For Bases (Siemens RA-ADB).....	35.20	10.16
28 46 13 31-0871 EA Seal For DB-11 (Siemens DB11-SEAL).....	17.53	
28 46 13 31-0872 EA Gasket For DB-11 (Siemens DB-SEAL).....	19.16	
28 46 13 31-0873 EA Detector Guard Housing (Siemens DGH-11).....	222.34	16.93
28 46 13 31-0874 EA Small Detector Base (Siemens DB-11E).....	57.43	16.93
28 46 13 31-0875 EA Audible Base For Series 3 (Siemens ADBI-60A).....	198.78	16.93
28 46 13 31-0876 EA Base Plug (Siemens DB-11-DP).....	14.49	
28 46 13 31-0877 Air Duct Smoke Detectors (28 46 13 31-0827)		
28 46 13 31-0878 EA Intelligent Remote Duct Relay Module (Siemens DA-X3SR).....	168.18	33.87
28 46 13 31-0879 EA Weatherproof Enclosure For Duct Housing (Siemens EAD-3).....	869.99	33.87
28 46 13 31-0880 Notification Devices (28 46 13 31-0887)		
28 46 13 31-0881 Synchronization Control Devices (28 46 13 31-0880)		
28 46 13 31-0882 EA Dual Synchronization Control Module (Siemens DSC).....	248.77	33.87
28 46 13 31-0883 Stand-Alone Strobes (28 46 13 31-0880)		
28 46 13 31-0884 EA Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R).....	207.01	50.80
28 46 13 31-0885 EA Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R).....	225.61	50.80
28 46 13 31-0886 EA Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR).....	207.01	50.80
28 46 13 31-0887 EA Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR).....	225.61	50.80
28 46 13 31-0888 EA Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW).....	225.61	50.80
28 46 13 31-0889 EA Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW).....	207.01	50.80
28 46 13 31-0890 EA Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R).....	239.24	50.80
28 46 13 31-0891 EA Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP).....	229.32	50.80
28 46 13 31-0892 EA Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP).....	229.32	50.80
28 46 13 31-0893 EA Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP).....	245.44	50.80
28 46 13 31-0894 EA Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP).....	245.44	50.80
28 46 13 31-0895 Horns And Strobes (28 46 13 31-0880)		
28 46 13 31-0896 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R).....	280.16	50.80
28 46 13 31-0897 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R).....	296.28	50.80
28 46 13 31-0898 EA Wall Mounted Horn (Siemens SE-R).....	162.37	50.80
28 46 13 31-0899 EA Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR).....	280.16	50.80
28 46 13 31-0900 EA Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR).....	296.28	50.80
28 46 13 31-0901 EA Ceiling Mounted Horn (Siemens SEC-R).....	169.81	50.80
28 46 13 31-0902 EA Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R).....	280.16	50.80
28 46 13 31-0903 EA Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R).....	296.28	50.80
28 46 13 31-0904 EA Wall Mounted Low Profile Horn (Siemens SEF-R).....	162.37	50.80
28 46 13 31-0905 EA Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW).....	280.16	50.80
28 46 13 31-0906 EA Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW).....	296.28	50.80
28 46 13 31-0907 EA Ceiling Mounted Low Profile Horn (Siemens SEF-CR).....	169.81	50.80
28 46 13 31-0908 EA Mini Horn (Siemens MH-R).....	135.09	50.80
28 46 13 31-0909 EA Indoor/Outdoor Multi Tone Horn (Siemens MTH-R).....	172.29	50.80
28 46 13 31-0910 EA Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R).....	264.04	50.80
28 46 13 31-0911 EA Industrial Tri-Tone Horn (Siemens ASR).....	752.58	50.80
28 46 13 31-0912 EA Wall Mounted Horn (Siemens HS-R).....	172.29	50.80
28 46 13 31-0913 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R).....	265.28	50.80
28 46 13 31-0914 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R).....	285.12	50.80
28 46 13 31-0915 EA 6" Motor Bell (Siemens MBDC-6).....	197.09	50.80
28 46 13 31-0916 EA 10" Motor Bell (Siemens MBDC-10).....	215.69	50.80
28 46 13 31-0917 Mounting Accessories (28 46 13 31-0880)		
28 46 13 31-0918 EA Concealed Conduit Adapter Plate (Siemens APS-R).....	48.75	16.93
28 46 13 31-0919 EA 4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R).....	48.75	16.93
28 46 13 31-0920 EA 4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R).....	49.99	16.93
28 46 13 31-0921 EA Red Weatherproof Surface Mount Back Box (Siemens MT-SUR-BOX).....	79.75	16.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0922 EA White Weatherproof Surface Mount Back Box (Siemens MT-SUR-BOX-W).....	63.63	16.93
28 46 13 31-0923 EA Surface Mounted Speaker Back Box (Siemens SBBS-R).....	67.35	16.93
28 46 13 31-0924 EA Surface Mounted Speaker Back Box (Siemens SBL2S-R).....	72.31	16.93
28 46 13 31-0925 EA Square Semi-Flush Extension Ring (Siemens SERS-R).....	57.43	16.93
28 46 13 31-0926 EA Semi-Flush Plate (Siemens SFPS-R).....	47.51	16.93
28 46 13 31-0927 EA Square Surface Back Box (Siemens SHBBS-R).....	57.43	16.93
28 46 13 31-0928 EA Horn Adapter Plate (Siemens SHMPS-R).....	54.95	16.93
28 46 13 31-0929 EA Ceiling Speaker Extension Ring (Siemens SPEXT-R).....	48.75	16.93
28 46 13 31-0930 EA Wall Mounted Surface Mounted Speaker Back Box (Siemens SPSB-R).....	63.63	16.93
28 46 13 31-0931 EA Wall Mounted Surface Mounted Speaker/Strobe Back Box (Siemens SPSSB-R).....	67.35	16.93
28 46 13 31-0932 EA Weatherproof Speaker Back Box (Siemens WBBS-R).....	64.87	16.93
28 46 13 31-0933 EA Weatherproof Speaker Back Box With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B).....	72.31	16.93
28 46 13 31-0934 EA Weatherproof Flush Plate (Siemens WFPAS-R).....	72.31	16.93
28 46 13 31-0935 EA Weatherproof Horn Flush Plate (Siemens WFPS-R).....	72.31	16.93
28 46 13 31-0936 EA Weatherproof Horn Back Box (Siemens WPBBS-R).....	67.35	16.93
28 46 13 31-0937 EA Weatherproof Strobe Back Box (Siemens WPSBBS-R).....	67.35	16.93
28 46 13 31-0938 EA Surface Mounted Weatherproof Back Box Kit (Siemens WPS-KIT).....	48.75	16.93
28 46 13 31-0939 EA Z Series Back Box (Siemens ZBB-R).....	54.95	16.93
28 46 13 31-0940 Door Holders (28 46 13 31-0880)		
28 46 13 31-0941 EA 120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A).....	421.52	50.80
28 46 13 31-0942 EA 24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D).....	421.52	50.80
28 46 13 31-0943 Voice Equipment (28 46 13 31-0687)		
28 46 13 31-0944 Voicecom (28 46 13 31-0943)		
28 46 13 31-0945 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM).....	6,457.17	677.39
28 46 13 31-0946 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L).....	10,239.02	677.39
28 46 13 31-0947 Johnson Controls Fire Alarm (28 46 13 31)		
28 46 13 31-0948 EA Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J).....	246.14	50.80
28 46 13 31-0949 EA Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J).....	243.45	50.80
28 46 13 31-0950 EA Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ).....	305.01	50.80
28 46 13 31-0951 EA Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ).....	304.16	50.80
28 46 13 31-0952 EA 411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD).....	842.19	67.74
28 46 13 31-0953 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ).....	232.41	50.80
28 46 13 31-0954 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J).....	206.94	50.80
28 46 13 31-0955 EA Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ).....	201.54	50.80
28 46 13 31-0956 EA Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J).....	616.72	50.80
28 46 13 31-0957 EA 100 Watts Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100).....	3,011.53	101.61
28 46 13 31-0958 EA AUDIO Amplifier, 100 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-100E).....	2,917.62	101.61
28 46 13 31-0959 EA 120 Watts Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Voltage AC (Johnson Controls, Inc. #AA-120).....	2,968.28	101.61
28 46 13 31-0960 EA AUDIO Amplifier, 120 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-120E).....	2,841.78	101.61
28 46 13 31-0961 EA 30 Watts Audio Amplifier At 25 VRMS, 120 Voltage AC (Johnson Controls, Inc. #AA-30).....	1,380.36	101.61
28 46 13 31-0962 EA AUDIO Amplifier, 30 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-30E).....	1,380.36	101.61
28 46 13 31-0963 EA Annunciator Control Module With; 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT).....	1,387.04	33.87
28 46 13 31-0964 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT).....	1,442.80	33.87
28 46 13 31-0965 EA Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A).....	1,059.11	33.87
28 46 13 31-0966 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A).....	1,059.11	33.87
28 46 13 31-0967 EA Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R).....	746.36	33.87
28 46 13 31-0968 EA Charger Power Supply - 6 Or 10 Amperes; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610).....	2,410.11	67.74
28 46 13 31-0969 EA Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT).....	1,059.11	33.87
28 46 13 31-0970 EA Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT).....	1,101.02	33.87
28 46 13 31-0971 EA Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A).....	949.14	33.87
28 46 13 31-0972 EA Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A).....	949.14	33.87
28 46 13 31-0973 EA Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX).....	157.63	30.48

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0974 EA Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM).....	1,451.00	67.74
28 46 13 31-0975 EA Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS).....	3,168.32	67.74
28 46 13 31-0976 EA Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM).....	1,451.00	67.74
28 46 13 31-0977 EA Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS).....	3,168.32	67.74
28 46 13 31-0978 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP).....	56.61	16.93
28 46 13 31-0979 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI).....	154.45	16.93
28 46 13 31-0980 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB).....	145.60	16.93
28 46 13 31-0981 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401).....	60.39	16.93
28 46 13 31-0982 EA Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J).....	54.11	16.93
28 46 13 31-0983 EA Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100).....	1,056.80	67.74
28 46 13 31-0984 EA Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224).....	2,477.84	101.61
28 46 13 31-0985 EA Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S).....	2,620.02	101.61
28 46 13 31-0986 EA Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK).....	289.77	16.93
28 46 13 31-0987 EA Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK).....	195.00	16.93
28 46 13 31-0988 EA Digital Audio Amplifier, 50 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-5025).....	2,479.94	101.61
28 46 13 31-0989 EA Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F).....	2,288.28	101.61
28 46 13 31-0990 EA Digital Audio Amplifier, 50 Watts, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF).....	2,288.28	101.61
28 46 13 31-0991 EA Digital Audio Amplifier, 50 Watts, 70 VRMS (Johnson Controls, Inc. #DAA-5070).....	2,686.95	101.61
28 46 13 31-0992 EA Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E).....	2,477.84	101.61
28 46 13 31-0993 EA Digital Audio Amplifier, 50 Watts, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F).....	2,477.84	101.61
28 46 13 31-0994 EA Digital Audio Amplifier, 50 Watts, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF).....	2,477.84	101.61
28 46 13 31-0995 EA Digital Audio Amplifier, 75 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-7525).....	2,965.26	101.61
28 46 13 31-0996 EA Digital Audio Amplifier, 75 Watts, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F).....	2,965.26	101.61
28 46 13 31-0997 EA Digital Audio Amplifier, 75 Watts, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF).....	2,965.26	101.61
28 46 13 31-0998 EA Innovairflex Intelligent. (Johnson Controls, Inc. #DNR).....	306.70	33.87
28 46 13 31-0999 EA Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW).....	472.45	33.87
28 46 13 31-1000 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1).....	42.20	13.55
28 46 13 31-1001 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5).....	46.11	13.55
28 46 13 31-1002 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10).....	113.55	20.32
28 46 13 31-1003 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3).....	54.84	13.55
28 46 13 31-1004 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5).....	67.70	16.93
28 46 13 31-1005 EA Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO).....	475.26	33.87
28 46 13 31-1006 EA Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD).....	789.46	67.74
28 46 13 31-1007 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4).....	652.76	101.61
28 46 13 31-1008 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4).....	908.02	101.61
28 46 13 31-1009 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMP-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4).....	993.32	101.61
28 46 13 31-1010 EA Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQBB-B4).....	528.08	13.55
28 46 13 31-1011 EA Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQBB-C4).....	796.66	13.55
28 46 13 31-1012 EA Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQBB-D4).....	875.65	13.55
28 46 13 31-1013 EA 6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6).....	1,050.19	135.48
Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 13 31-1014 EA 8 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8).....	1,381.09	135.48
Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 13 31-1015 EA 80 Character Display Annunciator, "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G).....	1,312.11	101.61
28 46 13 31-1016 EA Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS).....	242.39	16.93
28 46 13 31-1017 EA Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R).....	687.58	33.87
28 46 13 31-1018 EA Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980).....	361.13	50.80
28 46 13 31-1019 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996).....	293.90	50.80
28 46 13 31-1020 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998).....	309.20	50.80
28 46 13 31-1021 EA Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200).....	2,527.02	67.74
28 46 13 31-1022 EA Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S).....	3,088.02	67.74
28 46 13 31-1023 EA Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J).....	931.97	33.87
28 46 13 31-1024 EA IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320).....	6,319.85	541.91
Note: Includes Door, Dress Panel And Back Box, Black		
28 46 13 31-1025 EA Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG).....	3,115.25	67.74
28 46 13 31-1026 EA Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI).....	41,162.05	812.86
28 46 13 31-1027 EA Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F).....	44,953.10	812.86
28 46 13 31-1028 EA Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	50,639.69	812.86
28 46 13 31-1029 EA Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	44,953.10	812.86
28 46 13 31-1030 EA Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B).....	302.23	20.32
28 46 13 31-1031 EA Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	340.14	20.32
28 46 13 31-1032 EA Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B).....	370.47	20.32
28 46 13 31-1033 EA Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B).....	692.71	20.32
28 46 13 31-1034 EA Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB).....	224.22	13.55
28 46 13 31-1035 EA Surface (or Semi-flush) Mount Back Box (Johnson Controls, Inc. #JABS-2D).....	349.71	30.48
Note: Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black.		
28 46 13 31-1036 EA Surface (or Semi-flush) Mount Back Box (Johnson Controls, Inc. #JABS-2DR).....	371.45	30.48
Note: Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red.		
28 46 13 31-1037 EA Surface (or Semi-flush) Mount INA, ACS, Or SCS Back Box, Black. (Johnson Controls, Inc. #JABS-4D).....	682.68	30.48
28 46 13 31-1038 EA Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4).....	681.08	13.55
28 46 13 31-1039 EA Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4).....	918.02	13.55

**Electronic Safety and Security 28**

Life Safety 28 40

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1040 EA Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4)	1,136.00	13.55
28 46 13 31-1041 EA Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX)	319.22	33.87
28 46 13 31-1042 EA Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4).....	149.01	13.55
28 46 13 31-1043 EA JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D)	6,305.50	541.91
28 46 13 31-1044 EA Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640).....	4,551.99	406.44
Note: Includes CHS2-M2 Chassis		
28 46 13 31-1045 EA Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	8,187.39	541.91
28 46 13 31-1046 EA Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	7,864.37	406.44
28 46 13 31-1047 EA Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	5,665.96	406.44
28 46 13 31-1048 EA Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	3,102.82	50.80
28 46 13 31-1049 EA Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	3,134.45	50.80
28 46 13 31-1050 EA Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	3,134.45	50.80
28 46 13 31-1051 EA Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	3,709.52	67.74
28 46 13 31-1052 EA Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. (Johnson Controls, Inc. #JNCA-2).....	3,143.68	67.74
Note: Mounting Includes: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D).		
28 46 13 31-1053 EA Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	2,708.40	406.44
28 46 13 31-1054 EA 160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD- 160)	2,233.11	67.74
28 46 13 31-1055 EA 80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	1,836.87	67.74
28 46 13 31-1056 EA Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC- 3030 Only. (Johnson Controls, Inc. #LCM-320).....	2,956.76	67.74
28 46 13 31-1057 EA Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32)	915.27	16.93
28 46 13 31-1058 EA Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24).....	294.35	13.55
28 46 13 31-1059 EA Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	362.59	13.55
28 46 13 31-1060 EA Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	737.13	16.93
28 46 13 31-1061 EA Relay Module, 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	1,353.17	16.93
28 46 13 31-1062 EA Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	2,452.13	16.93
28 46 13 31-1063 EA Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	191.93	16.93
28 46 13 31-1064 EA Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	306.04	16.93
28 46 13 31-1065 EA Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry- contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	150.59	16.93
28 46 13 31-1066 EA Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	211.46	16.93
28 46 13 31-1067 EA Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devices. (Johnson Controls, Inc. #M301MJ)	166.58	16.93
28 46 13 31-1068 EA Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	271.86	16.93
28 46 13 31-1069 EA Addressable Firephone Control Module With FlashScan. (Johnson Controls, Inc. #M500FPJ).....	310.08	16.93
28 46 13 31-1070 EA SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	174.71	16.93
28 46 13 31-1071 EA Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	2,588.54	50.80
28 46 13 31-1072 EA Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	2,302.55	33.87
28 46 13 31-1073 EA Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W).....	2,128.17	33.87
28 46 13 31-1074 EA Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO).....	79.89	6.77
28 46 13 31-1075 EA Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2- 640/3030, JNCA-2, DVC, etc.) (Johnson Controls, Inc. #NCM-F)	1,861.68	33.87
28 46 13 31-1076 EA Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, etc.) (Johnson Controls, Inc. #NCM-W).....	1,772.72	33.87
28 46 13 31-1077 EA NFV-25/50. (Johnson Controls, Inc. #NFV-25/50).....	4,526.18	67.74
28 46 13 31-1078 EA NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U)	1,257.02	33.87
28 46 13 31-1079 EA Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S).....	343.63	13.55
28 46 13 31-1080 EA Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1)	793.74	33.87
28 46 13 31-1081 EA Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA)	793.74	33.87
28 46 13 31-1082 EA Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1).....	212.88	13.55
28 46 13 31-1083 EA SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB).....	56.41	6.77
28 46 13 31-1084 EA SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC).....	56.41	6.77
28 46 13 31-1085 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR)	215.36	50.80
28 46 13 31-1086 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH).....	241.88	50.80
28 46 13 31-1087 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK).....	285.75	57.58
28 46 13 31-1088 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK).....	281.94	57.58
28 46 13 31-1089 EA Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8)	1,899.22	135.48
28 46 13 31-1090 EA Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L).....	1,482.18	135.48
28 46 13 31-1091 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW).....	215.36	50.80
28 46 13 31-1092 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH).....	241.88	50.80
28 46 13 31-1093 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P)	215.36	50.80
28 46 13 31-1094 EA Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500)	39.14	13.55

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1095 EA SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON)	43.97	6.77
28 46 13 31-1096 EA SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP)	50.06	6.77
28 46 13 31-1097 EA SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS)	44.02	6.77
28 46 13 31-1098 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR)	197.07	50.80
28 46 13 31-1099 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH)	241.88	50.80
28 46 13 31-1100 EA Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK)	285.75	57.58
28 46 13 31-1101 EA Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P)	241.88	50.80
28 46 13 31-1102 EA Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK)	281.94	57.58
28 46 13 31-1103 EA Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P)	215.36	50.80
28 46 13 31-1104 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW)	215.36	50.80
28 46 13 31-1105 EA Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH)	241.88	50.80
28 46 13 31-1106 EA Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P)	241.88	50.80
28 46 13 31-1107 EA Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P)	215.36	50.80
28 46 13 31-1108 EA Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1)	297.33	16.93
28 46 13 31-1109 EA Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT)	1,312.10	67.74
28 46 13 31-1110 EA Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW)	319.16	67.74
28 46 13 31-1111 EA Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW)	136.53	33.87
28 46 13 31-1112 EA Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV)	136.53	33.87
28 46 13 31-1113 EA Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR)	251.42	33.87
28 46 13 31-1114 EA Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH)	273.40	33.87
28 46 13 31-1115 EA Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRHV)	273.40	33.87
28 46 13 31-1116 EA Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV)	242.69	33.87
28 46 13 31-1117 EA Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK)	330.68	33.87
28 46 13 31-1118 EA Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW)	251.42	33.87
28 46 13 31-1119 EA Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW)	136.53	33.87
28 46 13 31-1120 EA Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR)	136.53	33.87
28 46 13 31-1121 EA Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH)	273.40	33.87
28 46 13 31-1122 EA Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR)	251.42	33.87
28 46 13 31-1123 EA Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV)	251.42	33.87
28 46 13 31-1124 Honeywell Fire Alarm (28 46 13 31)		
28 46 13 31-1125 Notifier Fire Alarm (28 46 13 31-1124)		
28 46 13 31-1126 Fire Alarm Control Panel And Accessories (28 46 13 31-1125)		
28 46 13 31-1127 EA NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D)	6,365.55	677.39
28 46 13 31-1128 EA NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640)	5,305.74	677.39
28 46 13 31-1129 EA Central Processing Unit for NFS2-640 With Integral 240 Volt Power Supply Includes Chassis (Notifier CPU2-640E)	5,853.33	677.39
28 46 13 31-1130 EA Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320)	6,353.08	677.39
28 46 13 31-1131 EA Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C)	6,233.54	677.39
28 46 13 31-1132 EA Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E)	6,081.37	677.39
28 46 13 31-1133 EA Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R)	5,936.06	677.39
28 46 13 31-1134 EA Two-Tone Sequential Module (Notifier 2TTM)	386.96	33.87
28 46 13 31-1135 EA 5', Not Low Loss, Antenna Cable (Notifier 7626-5C)	97.07	6.77
28 46 13 31-1136 EA 25', Low Loss, Antenna Cable (Notifier 7626-25HC)	186.14	13.55
28 46 13 31-1137 EA 50', Low Loss, Antenna Cable (Notifier 7626-50HC)	282.63	20.32
28 46 13 31-1138 EA IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P)	443.93	
28 46 13 31-1139 EA RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119)	62.76	
28 46 13 31-1140 EA 120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS)	5,821.65	677.39
28 46 13 31-1141 EA 240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS)	5,877.71	677.39
28 46 13 31-1142 EA 3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB)	238.95	6.77
28 46 13 31-1143 EA Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER)	74.19	6.77
28 46 13 31-1144 EA Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT)	105.76	13.55
28 46 13 31-1145 EA Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT)	104.81	16.93
28 46 13 31-1146 EA IP Communicator (Notifier IPDACT-2)	777.11	33.87
28 46 13 31-1147 EA IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD)	900.68	33.87
28 46 13 31-1148 EA Red, IP Communicator External Mounting Enclosure (Notifier IPENC)	214.19	33.87
Note: Includes IPBRKT.		
28 46 13 31-1149 EA Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B)	213.62	33.87
Note: Includes IPBRKT		
28 46 13 31-1150 EA Dual 8TPC To Single 8TPC Y-Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT)	55.36	13.55
28 46 13 31-1151 EA Loop Control Module (Notifier LCM-320)	2,226.00	67.74
28 46 13 31-1152 EA Loop Expander Module (Notifier LEM-320)	1,780.77	67.74
28 46 13 31-1153 EA Keyboard Display Module For CPU2-640 (Notifier KDM-R2)	1,692.64	67.74
28 46 13 31-1154 EA 7' DACT Phone Cord (Notifier MCBL-7)	26.94	
28 46 13 31-1155 EA Back Box For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1)	224.37	16.93
28 46 13 31-1156 EA Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R)	258.24	33.87
28 46 13 31-1157 EA Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B)	258.24	33.87
28 46 13 31-1158 EA Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2)	1,131.69	33.87
28 46 13 31-1159 EA Universal Zone Coder (Notifier UZC-256)	1,582.52	33.87
28 46 13 31-1160 EA Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI)	495.94	
Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.		
28 46 13 31-1161 EA Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD)	778.22	
28 46 13 31-1162 EA ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD)	524.59	
28 46 13 31-1163 EA Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS)	7,088.58	20.32
28 46 13 31-1164 EA Surface Back Box For NBG-12LRA (Notifier SBA-10)	59.16	16.93
28 46 13 31-1165 EA Up To 50 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-50X)	3,057.41	677.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1166 EA Up To 198 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-100X).....	4,466.64	677.39
28 46 13 31-1167 ONYX Cabinets (28 46 13 31-1125)		
28 46 13 31-1168 EA Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R).....	545.32	16.93
28 46 13 31-1169 EA Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R).....	729.28	16.93
28 46 13 31-1170 EA Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R).....	899.30	16.93
28 46 13 31-1171 EA Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4).....	135.60	20.32
28 46 13 31-1172 EA Chassis Bridge (Notifier CB-1).....	122.83	16.93
28 46 13 31-1173 EA Four Position Chassis (Notifier CHS-4).....	203.78	16.93
28 46 13 31-1174 EA Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2).....	231.21	33.87
28 46 13 31-1175 EA Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B).....	120.16	20.32
28 46 13 31-1176 EA Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP).....	151.34	20.32
28 46 13 31-1177 EA One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4).....	422.39	33.87
28 46 13 31-1178 EA One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B).....	271.39	33.87
28 46 13 31-1179 EA Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4).....	536.62	50.80
28 46 13 31-1180 EA Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B).....	335.74	50.80
28 46 13 31-1181 EA Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4).....	799.07	67.74
28 46 13 31-1182 EA Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B).....	492.91	67.74
28 46 13 31-1183 EA Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4).....	970.08	84.67
28 46 13 31-1184 EA Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B).....	573.87	84.67
28 46 13 31-1185 EA Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4).....	319.91	16.93
28 46 13 31-1186 EA Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B).....	221.51	16.93
28 46 13 31-1187 EA Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR).....	221.51	16.93
28 46 13 31-1188 EA Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R).....	325.63	16.93
28 46 13 31-1189 EA Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR).....	248.97	16.93
28 46 13 31-1190 EA Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R).....	411.44	16.93
28 46 13 31-1191 EA Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR).....	282.72	16.93
28 46 13 31-1192 EA Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R).....	489.24	16.93
28 46 13 31-1193 EA Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR).....	404.57	16.93
28 46 13 31-1194 EA Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R).....	723.79	16.93
28 46 13 31-1195 EA Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR).....	452.63	16.93
28 46 13 31-1196 EA Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R).....	865.67	16.93
28 46 13 31-1197 EA Black, Two Tiers, Equipment Back Box Assembly (Notifier EQBB-B4).....	423.57	33.87
28 46 13 31-1198 EA Black, Three Tiers, Equipment Back Box Assembly (Notifier EQBB-C4).....	620.36	33.87
28 46 13 31-1199 EA Black, Four Tiers, Equipment Back Box Assembly (Notifier EQBB-D4).....	725.63	33.87
28 46 13 31-1200 EA Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4).....	443.02	33.87
28 46 13 31-1201 EA Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4).....	663.84	33.87
28 46 13 31-1202 EA Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4).....	773.68	33.87
28 46 13 31-1203 EA Red, Two Tiers, Equipment Back Box Assembly (Notifier EQBB-B4R).....	427.00	33.87
28 46 13 31-1204 EA Red, Three Tiers, Equipment Back Box Assembly (Notifier EQBB-C4R).....	620.36	33.87
28 46 13 31-1205 EA Red, Four Tiers, Equipment Back Box Assembly (Notifier EQBB-D4R).....	734.78	33.87
28 46 13 31-1206 EA Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R).....	463.62	33.87
28 46 13 31-1207 EA Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R).....	663.84	33.87
28 46 13 31-1208 EA Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R).....	773.68	33.87
28 46 13 31-1209 EA Back Box With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC).....	4,659.70	169.34
28 46 13 31-1210 EA CAB-4 Series Mounting Kit (Notifier P40-KITB).....	398.40	33.87
Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 13 31-1211 EA Black, One Tier Back Box Assembly (Notifier SBB-A4).....	472.37	101.61
28 46 13 31-1212 EA Black, Two Tier Back Box Assembly (Notifier SBB-B4).....	668.35	135.48
28 46 13 31-1213 EA Black, Three Tier Back Box Assembly (Notifier SBB-C4).....	882.10	135.48
28 46 13 31-1214 EA Black, Four Tier Back Box Assembly (Notifier SBB-D4).....	1,073.33	169.34
28 46 13 31-1215 EA Black, Mini, One Tier, Back Box (Notifier SBB-AA4).....	254.24	33.87
28 46 13 31-1216 EA Red, Mini, One Tier, Back Box (Notifier SBB-AA4R).....	254.24	33.87
28 46 13 31-1217 EA Red, One Tier Back Box Assembly (Notifier SBB-A4R).....	306.87	33.87
28 46 13 31-1218 EA Red, Two Tier Back Box Assembly (Notifier SBB-B4R).....	422.43	33.87
28 46 13 31-1219 EA Red, Three Tier Back Box Assembly (Notifier SBB-C4R).....	613.50	33.87
28 46 13 31-1220 EA Red, Four Tier Back Box Assembly (Notifier SBB-D4R).....	723.34	33.87
28 46 13 31-1221 EA Trim Ring For NFS-320 Cabinet (Notifier TR-320).....	241.44	20.32
28 46 13 31-1222 EA Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R).....	241.44	20.32
28 46 13 31-1223 EA Black, AA Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4).....	323.25	20.32
28 46 13 31-1224 EA Black, A Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4).....	256.88	20.32
28 46 13 31-1225 EA Black, B Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4).....	258.60	20.32
28 46 13 31-1226 EA Black, C Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4).....	255.74	20.32
28 46 13 31-1227 EA Black, D Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4).....	262.03	20.32
28 46 13 31-1228 EA 2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Back Box (Notifier VP-2B).....	97.16	20.32
28 46 13 31-1229 EA Wire Trays For Routing Wire In A CAB-4 Series Back Box (Notifier WC-2).....	65.27	6.77
28 46 13 31-1230 NFS2-3030/640 Cabinet Mechanicals (28 46 13 31-1125)		
28 46 13 31-1231 EA Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640).....	156.22	20.32
28 46 13 31-1232 EA Blank Module Dress Plate (Notifier BM-1B).....	129.30	20.32
28 46 13 31-1233 EA Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4).....	146.72	20.32
28 46 13 31-1234 EA Four Position Expansion Chassis (Notifier CHS-4MB).....	314.19	16.93
28 46 13 31-1235 EA Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3).....	329.60	50.80
28 46 13 31-1236 EA Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2).....	162.55	20.32
28 46 13 31-1237 NFS-3030/640 Cabinet Mechanicals (28 46 13 31-1125)		
28 46 13 31-1238 EA Annunciator Dress Plate (Notifier ADP-4B).....	148.30	20.32
28 46 13 31-1239 EA Blank Module Dress Plate (Notifier BMP-1).....	92.89	20.32

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1240	EA	Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L)	209.44	33.87	
28 46 13 31-1241	EA	Module Dress Plate (Notifier MP-1B)	149.89	20.32	
28 46 13 31-1242 Battery Cabinets (28 46 13 31-1125)					
28 46 13 31-1243	EA	Six Position Chassis (Notifier CHS-6)	134.71	33.87	
28 46 13 31-1244	EA	Black, 24" x 14" x 7-3/4" Battery Back Box (Notifier NFS-LBB)	668.69	101.61	
28 46 13 31-1245 Digital Voice (28 46 13 31-1125)					
28 46 13 31-1246	EA	Chassis Used With BB-XP (Notifier 18439)	63.05	16.93	
28 46 13 31-1247	EA	220 Volt AC, 100 Watt, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E)	3,240.88	50.80	
28 46 13 31-1248	EA	220 Volt AC, 120 Watt, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E)	3,149.21	50.80	
28 46 13 31-1249	EA	220 Volt AC, 30 Watt, 25 VRMS Audio Amplifier (Notifier AA-30E)	1,572.81	50.80	
28 46 13 31-1250	EA	Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4)	682.67	50.80	
28 46 13 31-1251	EA	Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4)	925.54	67.74	
28 46 13 31-1252	EA	Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4)	1,152.56	84.67	
28 46 13 31-1253	EA	Multimode Audio Fiber Link Receiver (Notifier AFL-RM)	1,370.63	33.87	
28 46 13 31-1254	EA	Multimode Audio Fiber Link Transmitter (Notifier AFL-TM)	1,370.63	33.87	
28 46 13 31-1255	EA	Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS)	2,954.54	33.87	
28 46 13 31-1256	EA	15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Back Box (Notifier AFAWS-BX)	127.40	16.93	
28 46 13 31-1257	EA	Flush Mounted, Key Lock, Door (Notifier AFAWS-KR)	212.36	16.93	
28 46 13 31-1258	EA	Surface Mounted, Key Lock, Door (Notifier AFAWS-KS)	213.50	16.93	
28 46 13 31-1259	EA	Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR)	206.64	16.93	
28 46 13 31-1260	EA	Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS)	208.93	16.93	
28 46 13 31-1261	EA	Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA)	421.74	16.93	
28 46 13 31-1262	EA	Coil Cord, Telephone Chassis (Notifier AFAWS-TELC)	323.34	16.93	
28 46 13 31-1263	EA	Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B)	132.54		
28 46 13 31-1264	EA	For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V)	811.61	33.87	
28 46 13 31-1265	EA	For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V)	819.12	33.87	
28 46 13 31-1266	EA	Blank Dress Plate For CA-2 (Notifier BP-CA2)	125.69	16.93	
28 46 13 31-1267	EA	One Tier Chassis For Digital Voice Command Panel (Notifier CA-1)	181.74	33.87	
28 46 13 31-1268	EA	Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2)	567.09	50.80	
28 46 13 31-1269	EA	Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM)	252.52	33.87	
28 46 13 31-1270	EA	Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR)	252.52	33.87	
28 46 13 31-1271	EA	Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1)	319.91	16.93	
28 46 13 31-1272	EA	Chassis With Paging Microphone With Well (Notifier CMIC-1)	316.48	16.93	
28 46 13 31-1273	EA	120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025)	2,344.50	33.87	
28 46 13 31-1274	EA	Multi-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F)	2,031.82	33.87	
28 46 13 31-1275	EA	Single-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF)	2,031.82	33.87	
28 46 13 31-1276	EA	120 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070)	2,420.49	33.87	
28 46 13 31-1277	EA	Multi-Mode Fiber-Optic Media 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F)	2,150.86	33.87	
28 46 13 31-1278	EA	120 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525)	2,513.91	33.87	
28 46 13 31-1279	EA	Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF)	2,656.76	33.87	
28 46 13 31-1280	EA	Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF)	2,656.76	33.87	
28 46 13 31-1281	EA	220-240 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E)	2,638.96	33.87	
28 46 13 31-1282	EA	220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E)	2,714.10	33.87	
28 46 13 31-1283	EA	220-240 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E)	2,831.32	33.87	
28 46 13 31-1284	EA	120 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525)	1,786.90	33.87	
28 46 13 31-1285	EA	220-240 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E)	1,834.99	33.87	
28 46 13 31-1286	EA	120 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570)	1,878.57	33.87	
28 46 13 31-1287	EA	220-240 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E)	1,941.68	33.87	
28 46 13 31-1288	EA	120 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025)	1,955.21	33.87	
28 46 13 31-1289	EA	220-240 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E)	2,013.81	33.87	
28 46 13 31-1290	EA	120 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070)	2,072.42	33.87	
28 46 13 31-1291	EA	220-240 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E)	2,177.62	33.87	
28 46 13 31-1292	EA	Dress Plate For CFFT-1 (Notifier DP-CFFT)	145.14	16.93	
28 46 13 31-1293	EA	Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1)	140.39	20.32	
28 46 13 31-1294	EA	Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4)	162.55	20.32	
28 46 13 31-1295	EA	Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B)	281.30	20.32	
28 46 13 31-1296	EA	WPS Power Amplifier (Notifier DPA3204P)	966.39	33.87	
28 46 13 31-1297	EA	WPS Power Amplifier (Notifier DPA4001P)	811.61	33.87	
28 46 13 31-1298	EA	Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232)	1,857.53	33.87	
28 46 13 31-1299	EA	120 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMP)	1,384.16	33.87	
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V					
28 46 13 31-1300	EA	220-240 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE)	1,400.69	33.87	
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V					
28 46 13 31-1301	EA	Digital Series Distribution Board, Supports One To Four DS-AMP Or DS-AMPE (Notifier DS-DB)	2,347.43	33.87	
28 46 13 31-1302	EA	125 Watt, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watt Amplifier With A DS-XF70V) (Notifier DS-BDA)	901.77	33.87	
28 46 13 31-1303	EA	Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM)	374.37	33.87	
28 46 13 31-1304	EA	Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXF Series Amplifier), Fiber Option Module (Notifier DS-RFM)	374.37	33.87	
28 46 13 31-1305	EA	Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM)	374.37	33.87	
28 46 13 31-1306	EA	Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watt, DS Series Transformer (Notifier DS-XF70V)	162.99	33.87	
28 46 13 31-1307	EA	Analog Output Board For Digital Voice Command (Notifier DVC-AO)	408.15	33.87	
28 46 13 31-1308	EA	Extended Memory For Digital Voice Command (Notifier DVC-EM)	2,363.50	33.87	
28 46 13 31-1309	EA	Keypad For Digital Voice Command (Notifier DVC-KD)	681.71	67.74	
28 46 13 31-1310	EA	Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE)	293.87		
28 46 13 31-1311	EA	Portable Fireman's Telephone Handset (Notifier FHS)	176.59		
28 46 13 31-1312	EA	Red, Fireman's Telephone Handset (Notifier FHS-F)	204.62		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1313 EA Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	513.96	33.87
28 46 13 31-1314 EA Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	513.96	33.87
28 46 13 31-1315 EA Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ)	84.62	10.16
28 46 13 31-1316 EA Paging Microphone Only (Notifier MIC-1).....	275.15	33.87
28 46 13 31-1317 EA Firefighter's Telephone Handset (Notifier TELH-1).....	201.76	
28 46 13 31-1318 EA Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1)	683.64	33.87
28 46 13 31-1319 EA Remote Microphone Assembly For Mounting In A Stand-Alone Cabinet (Notifier RM-1SA)	683.64	33.87
28 46 13 31-1320 Amplifiers (28 46 13 31-1125)		
28 46 13 31-1321 EA 30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30).....	1,316.95	33.87
28 46 13 31-1322 EA 100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100).....	2,876.48	33.87
28 46 13 31-1323 EA 120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120).....	2,794.15	33.87
28 46 13 31-1324 EA Audio Coupling Transformer (Notifier ACT-1).....	199.15	33.87
28 46 13 31-1325 EA Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	233.98	33.87
28 46 13 31-1326 EA Audio Coupling Transformer For DAA-5025 (Notifier ACT-25).....	233.98	33.87
28 46 13 31-1327 EA Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	233.98	33.87
28 46 13 31-1328 EA 50 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5025).....	2,526.26	33.87
28 46 13 31-1329 EA 50 Watt, 70 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5070).....	2,613.42	33.87
28 46 13 31-1330 EA 75 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-7525).....	2,715.60	33.87
28 46 13 31-1331 EA Distributed Amplifier With Backup Capability (Notifier NFC-50/100DA)..... Note: Requires NFC-BDA-BU	4,966.74	33.87
28 46 13 31-1332 EA 50 Watt, 25 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25V)..... Note: Requires NFC-BDA-BU	976.91	33.87
28 46 13 31-1333 EA 50 Watt, 70 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70V)..... Note: Requires NFC-BDA-BU	981.42	33.87
28 46 13 31-1334 FireVoice-25/50 Emergency Voice Evacuation Control Panels (28 46 13 31-1125)		
28 46 13 31-1335 EA 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	5,470.42	677.39
28 46 13 31-1336 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	3,854.52	677.39
28 46 13 31-1337 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV- 25/50DAZS).....	5,015.11	677.39
28 46 13 31-1338 EA Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS).....	6,532.81	677.39
28 46 13 31-1339 EA Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST).....	7,229.17	677.39
28 46 13 31-1340 System Printer (28 46 13 31-1125)		
28 46 13 31-1341 EA 80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6)	2,857.48	33.87
28 46 13 31-1342 Batteries (28 46 13 31-1125)		
28 46 13 31-1343 EA 5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP).....	663.84	33.87
28 46 13 31-1344 EA 7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP).....	609.22	33.87
28 46 13 31-1345 EA 12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP).....	802.38	33.87
28 46 13 31-1346 EA 18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP).....	466.73	33.87
28 46 13 31-1347 EA 26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP).....	653.55	33.87
28 46 13 31-1348 EA 55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550).....	651.97	33.87
28 46 13 31-1349 EA 100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000).....	1,039.56	33.87
28 46 13 31-1350 Battery Back Boxes And Miscellaneous Mechanicals (28 46 13 31-1125)		
28 46 13 31-1351 EA 14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Back Box (Notifier BB-17).....	185.20	27.10
28 46 13 31-1352 EA 24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25)..... Note: XP6 modules require a CHS-6.	308.19	27.10
28 46 13 31-1353 EA 15.6" x 15.5" x 5.152", Mounts Up To Two 26 Ampere Hours And Charger, Battery Back Box (Notifier BB-26).....	521.11	135.48
28 46 13 31-1354 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH).....	241.31	67.74
28 46 13 31-1355 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH1).....	132.84	16.93
28 46 13 31-1356 EA Battery Bracket For Two 26 Ampere Hours Batteries (Notifier SEISKIT-BB25).....	303.64	27.10
28 46 13 31-1357 EA Two 26 Ampere Hours Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB).....	246.41	27.10
28 46 13 31-1358 EA Two 12 Ampere Hours Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT- DAA).....	273.29	27.10
28 46 13 31-1359 EA Two 55 Ampere Hours Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB).....	291.03	27.10
28 46 13 31-1360 EA Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For FIREVOICE 25/50 Series (Notifier SEISKIT-2550).....	430.62	27.10
28 46 13 31-1361 EA Two 26 Ampere Hour Battery Bracket Seismic Kit For NFS-320 And BB-26 Series (Notifier SEISKIT-320/B26).....	256.70	27.10
28 46 13 31-1362 EA Two 100 Ampere Hour Battery Bracket Seismic Kit For BB-100 And BB-200 Series (Notifier SEISKIT-BB100)..... Note: Two kits are required for the BB-200	361.97	27.10
28 46 13 31-1363 EA Two 18 Ampere Hour Battery Bracket Seismic Kit For BB-17 Series (Notifier SEISKIT-BB17)..... Note: Two kits are required for the BB-200	313.91	27.10
28 46 13 31-1364 EA Two 26 Ampere Hour Battery Bracket Seismic Kit For BB-25 Series (Notifier SEISKIT-BB25)..... Note: Two kits are required for the BB-200	320.78	27.10
28 46 13 31-1365 EA Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For SFP-5UD, SFP-10UD, Firewarden 100-2, RP- 2001, And RP-2002 Series (Notifier SEISKIT-COMMENC).....	280.73	27.10
28 46 13 31-1366 EA Two 7 Or 12 Ampere Hour Battery Bracket Seismic Kit For FCPS-24S6/8, CAB-PS1, SFP-2402 And SFP-2404 Series (Notifier SEISKIT-PS/2/4)..... Note: Two kits are required for the BB-200	263.57	27.10
28 46 13 31-1367 Power Supplies And Chargers (28 46 13 31-1125)		
28 46 13 31-1368 EA 120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610)	2,172.41	50.80

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1369 EA 220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E)	2,280.61	50.80
28 46 13 31-1370 EA Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24)	2,013.59	33.87
28 46 13 31-1371 EA 6A Auxiliary Power Supply (Notifier APS-6R)	1,090.85	33.87
28 46 13 31-1372 EA 10 Amperes Battery Charger (Notifier BC10A)	1,193.13	50.80
28 46 13 31-1373 EA 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100)	656.80	40.64
Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 13 31-1374 EA Red, 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100R)	664.81	40.64
Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 13 31-1375 EA 30.34" x 36.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS2-3030 (Notifier BB-200)	1,275.98	40.64
Note: Holds four 55 ampere hour or four 100 ampere hour batteries		
28 46 13 31-1376 EA 30.34" x 36.5" x 7.5", Holds Four 55 Ampere Hours Or Four 100 Ampere Hours Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R)	1,275.98	40.64
28 46 13 31-1377 EA 15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1)	232.50	33.87
28 46 13 31-1378 EA 25 To 120 Ampere Hours Battery Charger (Notifier CHG-120)	1,551.27	33.87
28 46 13 31-1379 EA Mounts XPIQ-Ps And/or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS)	104.81	16.93
28 46 13 31-1380 EA Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1)	163.73	16.93
28 46 13 31-1381 EA 8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8)	1,027.21	33.87
28 46 13 31-1382 EA 8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E)	1,243.12	101.61
28 46 13 31-1383 EA Red, 8 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R)	1,187.52	101.61
28 46 13 31-1384 EA 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8)	1,381.37	101.61
28 46 13 31-1385 EA 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8E)	1,369.35	101.61
28 46 13 31-1386 EA Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CM)	1,357.92	50.80
28 46 13 31-1387 EA Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CME)	1,357.92	50.80
28 46 13 31-1388 EA 12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12)	1,690.03	50.80
28 46 13 31-1389 EA 12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12E)	1,613.39	50.80
28 46 13 31-1390 EA 12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CM)	1,715.57	101.61
28 46 13 31-1391 EA 12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CME)	1,715.57	101.61
28 46 13 31-1392 EA 6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6)	1,160.47	101.61
28 46 13 31-1393 EA 6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E)	1,160.47	101.61
28 46 13 31-1394 EA 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8)	1,256.64	101.61
28 46 13 31-1395 EA 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E)	1,256.64	101.61
28 46 13 31-1396 EA 6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA)	999.67	101.61
28 46 13 31-1397 EA 9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA)	1,187.52	101.61
28 46 13 31-1398 EA Class A Adapter HPFF8/HPFF12 (Notifier HPP31076)	257.78	16.93
28 46 13 31-1399 EA Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A)	1,585.44	33.87
28 46 13 31-1400 EA Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4)	230.21	33.87
28 46 13 31-1401 EA 240 Volt AC Addressable Power Supply (Notifier AMPS-24E)	1,777.10	33.87
28 46 13 31-1402 EA 6 Amperes, 120 Volt AC Auxiliary Power Supply (Notifier APS2-6R)	1,204.05	101.61
28 46 13 31-1403 EA 6 Amperes, 220-240 Volt AC Auxiliary Power Supply (Notifier APS2-6RE)	1,256.64	101.61
28 46 13 31-1404 EA 25 To 75 Ampere Hour Sealed Lead Acid Battery Charger (Notifier CHG-75)	1,173.77	33.87
28 46 13 31-1405 EA 6 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6E)	1,158.97	101.61
28 46 13 31-1406 EA 6 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6R)	1,130.41	101.61
28 46 13 31-1407 Network Control Annunciators (28 46 13 31-1125)		
28 46 13 31-1408 EA Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2)	2,815.62	101.61
28 46 13 31-1409 EA Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO)	105.55	20.32
28 46 13 31-1410 EA Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit)	75.47	20.32
28 46 13 31-1411 FIRSTVISION Firefighter's Display (28 46 13 31-1125)		
28 46 13 31-1412 EA ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD)	21,708.92	677.39
28 46 13 31-1413 FlashScan Addressable Modules (28 46 13 31-1125)		
28 46 13 31-1414 EA Intelligent Addressable Control Module (Notifier FCM-1)	240.32	33.87
28 46 13 31-1415 EA Addressable Dual Monitor Module (Notifier FDM-1)	268.82	33.87
28 46 13 31-1416 EA Intelligent Addressable Monitor Module (Notifier FMM-1)	199.15	33.87
28 46 13 31-1417 EA Intelligent Addressable Miniature Monitor Module (Notifier FMM-101)	176.99	33.87
28 46 13 31-1418 EA Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20)	368.56	33.87
28 46 13 31-1419 EA Intelligent Addressable Relay Module (Notifier FRM-1)	195.03	33.87
28 46 13 31-1420 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1)	303.65	33.87
28 46 13 31-1421 EA SLC Loop Powered Fault Isolator Module (Notifier ISO-X)	195.99	33.87
28 46 13 31-1422 Addressable Device Bases And Accessories (28 46 13 31-1125)		
28 46 13 31-1423 EA Intelligent Detector Base With Flange (Notifier B710LP)	67.79	16.93
28 46 13 31-1424 EA Weatherproof Device Housing (Notifier DH400OE-1)	623.47	33.87
28 46 13 31-1425 EA Detector Base For All Wireless Smoke And Heat Detectors (Notifier B210W)	63.05	16.93
28 46 13 31-1426 EA Swift AV Base Ceiling (Notifier WAV-CRL)	330.20	16.93
28 46 13 31-1427 EA Swift AV Base Wall (Notifier WAV-RL)	330.20	16.93
28 46 13 31-1428 XP6/XP10 Transponder (28 46 13 31-1125)		
28 46 13 31-1429 EA Synchronization Daughter Module For XP6-C (Notifier SYNC-1)	176.19	33.87
28 46 13 31-1430 EA Six Circuit Supervised Control Module (Notifier XP6-C)	897.38	33.87
28 46 13 31-1431 EA Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA)	1,087.37	33.87
28 46 13 31-1432 EA Six Relay Control Module (Notifier XP6-R)	862.55	33.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1433 EA Ten Input Monitor Module (Notifier XP10-M)	1,039.87	33.87
28 46 13 31-1434 LCD Display Annunciators (28 46 13 31-1125)		
28 46 13 31-1435 EA 80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80)	1,145.26	101.61
28 46 13 31-1436 EA 80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80)	1,612.33	101.61
28 46 13 31-1437 EA 640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160)	1,669.33	101.61
28 46 13 31-1438 EA 8 To 16 Switch Smoke Control Expander (Notifier SCE-8)	941.87	33.87
28 46 13 31-1439 EA 8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L)	501.37	33.87
28 46 13 31-1440 EA Eight Switch Smoke Control Master Module (Notifier SCS-8)	1,218.75	33.87
28 46 13 31-1441 EA White, 80 Character Display, Remote LCD Annunciator (Notifier N-ANN-80-W)	816.34	101.61
28 46 13 31-1442 ONYX ACM And AEM Series LED Annunciators (28 46 13 31-1125)		
28 46 13 31-1443 EA Remote, Eight Form C Relay Module (Notifier ACM-8R)	541.42	33.87
28 46 13 31-1444 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT)	1,190.29	33.87
28 46 13 31-1445 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT)	910.04	33.87
28 46 13 31-1446 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT)	1,190.29	33.87
28 46 13 31-1447 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT)	910.04	33.87
28 46 13 31-1448 EA 32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A)	910.04	33.87
28 46 13 31-1449 EA 32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A)	815.05	33.87
28 46 13 31-1450 EA 48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A)	910.04	33.87
28 46 13 31-1451 EA 48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A)	815.05	33.87
28 46 13 31-1452 Graphic Annunciator - Lamp Driver Modules (28 46 13 31-1125)		
28 46 13 31-1453 EA Single Annunciator Flush Mounted Back Box (Notifier ABF-1B)	366.64	67.74
28 46 13 31-1454 EA Single Annunciator Flush Mounted Back Box With Glass Door And Key Lock (Notifier ABF-1DB)	399.89	67.74
28 46 13 31-1455 EA Two Annunciator Flush Mounted Back Box (Notifier ABF-2B)	459.08	84.67
28 46 13 31-1456 EA Two Annunciator Flush Mounted Back Box With Glass Door And Key Lock (Notifier ABF-2DB)	501.83	84.67
28 46 13 31-1457 EA Four Annunciator Flush Mounted Back Box (Notifier ABF-4B)	810.23	118.54
28 46 13 31-1458 EA Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1)	144.34	20.32
28 46 13 31-1459 EA Single Annunciator Surface Mounted Back Box (Notifier ABS-1B)	231.27	67.74
28 46 13 31-1460 EA Single Annunciator Surface Mounted Back Box With Trim (Notifier ABS-1TB)	166.78	16.93
28 46 13 31-1461 EA Two Annunciator Surface Mounted Back Box (Notifier ABS-2B)	292.22	67.74
28 46 13 31-1462 EA 12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Back Box (Notifier ABS-2D)	523.99	84.67
28 46 13 31-1463 EA Red, Surface (Or Semi-Flush) Mounted Back Box For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR)	307.02	16.93
28 46 13 31-1464 EA Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Back Box (Notifier ABS-4D)	852.98	118.54
28 46 13 31-1465 EA Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Back Box (Notifier ABS-4DR)	514.99	20.32
28 46 13 31-1466 EA Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Back Box (Notifier ABS-8RB)	204.18	27.10
28 46 13 31-1467 EA Annunciator Key Switch (Notifier AKS-1B)	117.86	10.16
28 46 13 31-1468 EA Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D)	135.03	33.87
28 46 13 31-1469 EA 32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32)	815.05	33.87
28 46 13 31-1470 EA 24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24)	205.20	6.77
28 46 13 31-1471 EA 48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48)	256.68	6.77
28 46 13 31-1472 EA 32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32)	670.97	33.87
28 46 13 31-1473 EA Lamp Driver Module (Notifier LDM-R32)	1,000.22	33.87
28 46 13 31-1474 EA Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L)	928.14	33.87
28 46 13 31-1475 EA 48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48)	263.55	6.77
28 46 13 31-1476 EA Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D)	239.15	20.32
28 46 13 31-1477 EA Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D)	124.78	20.32
28 46 13 31-1478 EA Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR)	124.78	20.32
28 46 13 31-1479 EA Graphic Annunciator Dress Plate (Notifier DP-GDIS1)	228.85	20.32
28 46 13 31-1480 EA Graphic Annunciator Dress Plate (Notifier DP-GDIS2)	228.85	20.32
28 46 13 31-1481 EA Input/Output Module For Driving Graphic Annunciators Or Relays (Notifier N-ANN-RLED)	608.37	33.87
28 46 13 31-1482 Network Gateways (28 46 13 31-1125)		
28 46 13 31-1483 EA Common Alerting Protocol Gateway (Notifier CAP-GW)	4,726.30	33.87
28 46 13 31-1484 EA Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF)	3,512.07	33.87
28 46 13 31-1485 EA Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF)	3,959.89	33.87
28 46 13 31-1486 EA Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF)	4,365.63	33.87
28 46 13 31-1487 EA Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W)	3,543.62	33.87
28 46 13 31-1488 EA Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF)	3,447.45	33.87
28 46 13 31-1489 EA Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF)	3,884.75	33.87
28 46 13 31-1490 EA Modbus Gateway (Notifier MODBUS-GW)	3,869.72	33.87
28 46 13 31-1491 EA 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW)	4,477.48	22.36
28 46 13 31-1492 EA Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS)	6,671.51	22.36
28 46 13 31-1493 EA 1920x1080P Wide Screen (Notifier MON-42LCDW)	21,203.20	22.36
28 46 13 31-1494 EA Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD)	638.15	50.80
28 46 13 31-1495 EA Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD)	1,156.39	50.80
28 46 13 31-1496 EA Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD)	1,680.73	50.80
28 46 13 31-1497 EA Mass Notification Voice Paging (Notifier NOTIFY-IP)	1,779.27	
28 46 13 31-1498 EA Embedded NFN Gateway (Notifier NFN-GW-EM)	3,455.96	33.87
28 46 13 31-1499 EA NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F)	3,455.96	33.87
28 46 13 31-1500 EA High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF)	5,372.48	33.87

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1501 EA High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF)	6,259.11	33.87
28 46 13 31-1502 EA High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW)	5,372.48	33.87
28 46 13 31-1503 EA NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W)	3,455.96	33.87
28 46 13 31-1504 EA Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER)	1,463.28	
28 46 13 31-1505 EA ONYXWorks Workstation (Notifier ONYXWORKS-WS)	39,047.21	812.86
28 46 13 31-1506 EA Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW)	5,845.35	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 13 31-1507 EA Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF)	5,845.35	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 13 31-1508 EA Fiber Optics, Standard Network Repeater Board (Notifier RPT-F)	1,630.61	33.87
28 46 13 31-1509 EA Wire, Standard Network Repeater Board (Notifier RPT-W)	1,325.55	33.87
28 46 13 31-1510 EA Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF)	1,579.52	33.87
28 46 13 31-1511 EA Signaling Line Circuit Integration Module (Notifier SLC-IM)	1,764.36	33.87
28 46 13 31-1512 EA VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW)	3,689.39	33.87
28 46 13 31-1513 EA Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS)	2,213.88	33.87
28 46 13 31-1514 EA Windows Hard Drive Upgrade (Notifier WIN7-UG-US-3)	2,438.80	
28 46 13 31-1515 EA Intuitive Color 10" Touch Screen Providing Color Coded Information Of Detailed System Status (Notifier NCD)	2,262.41	22.36
28 46 13 31-1516 EA SWIFT Wireless Gateway With Flashscan (Notifier FWSG)	524.36	33.87
28 46 13 31-1517 NOTI-FIRE-NET Network Components (28 46 13 31-1125)		
28 46 13 31-1518 EA Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3)	3,455.96	33.87
28 46 13 31-1519 EA Fiber Optic Network Communications Module (Notifier NCM-F)	1,535.44	33.87
28 46 13 31-1520 EA NOTI-FIRE-NET Web Server (Notifier NWS)	3,455.96	33.87
28 46 13 31-1521 EA Wired Network Communications Module (Notifier NCM-W)	1,462.61	33.87
28 46 13 31-1522 EA Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit)	144.57	16.93
28 46 13 31-1523 FireWarden Addressable Fire Panels (28 46 13 31-1125)		
28 46 13 31-1524 EA 50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50)	2,866.81	677.39
28 46 13 31-1525 EA Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100)	3,428.88	677.39
28 46 13 31-1526 EA Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C)	3,918.49	338.69
28 46 13 31-1527 EA Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E)	3,918.49	338.69
28 46 13 31-1528 EA Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R)	3,900.46	338.69
28 46 13 31-1529 EA Black, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, Built In Annunciator, 50 Point Addressable Fire Alarm Control Panel (Notifier NFW-50C)	4,516.59	677.39
28 46 13 31-1530 EA Red, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, 50 Point Addressable Fire Alarm Control Panel (NFW-50R)	3,170.11	677.39
28 46 13 31-1531 FireWarden Accessories (28 46 13 31-1125)		
28 46 13 31-1532 EA Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100)	236.62	50.80
28 46 13 31-1533 EA Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T)	225.18	50.80
28 46 13 31-1534 FireWarden Devices (28 46 13 31-1125)		
28 46 13 31-1535 EA SLC Loop Powered Fault Isolator Module (Notifier N100-ISO)	194.40	33.87
28 46 13 31-1536 EA Intelligent Addressable Control Module (Notifier NC-100)	232.40	33.87
28 46 13 31-1537 EA Intelligent Addressable Relay Module (Notifier NC-100R)	222.90	33.87
28 46 13 31-1538 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100)	510.50	50.80
28 46 13 31-1539 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R)	617.63	50.80
28 46 13 31-1540 EA Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100)	222.90	33.87
28 46 13 31-1541 EA Intelligent Addressable Thermal Detector With Base (Notifier NH-100)	225.11	50.80
28 46 13 31-1542 EA Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H)	225.11	50.80
28 46 13 31-1543 EA Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R)	225.11	50.80
28 46 13 31-1544 EA Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100)	307.44	50.80
28 46 13 31-1545 EA Intelligent Addressable Monitor Module (Notifier NMM-100)	191.24	33.87
28 46 13 31-1546 EA Intelligent Addressable Mini Monitor Module (Notifier NMM-100P)	173.03	33.87
28 46 13 31-1547 EA Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX)	261.69	33.87
28 46 13 31-1548 EA Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100)	236.19	50.80
28 46 13 31-1549 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100)	294.15	33.87
28 46 13 31-1550 EA Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6)	1,062.04	33.87
28 46 13 31-1551 SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories (28 46 13 31-1125)		
28 46 13 31-1552 EA 120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402)	1,875.47	541.91
28 46 13 31-1553 EA 120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404)	2,079.71	541.91
28 46 13 31-1554 EA 240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402E)	1,600.08	169.34
28 46 13 31-1555 EA 240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404E)	1,839.02	169.34
28 46 13 31-1556 EA Class A Converter Module (Notifier CAC-4)	448.74	33.87
28 46 13 31-1557 EA Internal Dress Plate, Required For FM And ULC (Notifier DP-4X)	164.49	20.32
28 46 13 31-1558 EA Remote Zone Annunciator (Notifier RZA-4X)	242.34	50.80

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28 46 13 31-1559 EA Red, Dress Panel (Notifier DP-51050).....	197.96	20.32
28 46 13 31-1560 EA Black, Dress Panel (Notifier DP-51050B).....	200.25	20.32
28 46 13 31-1561 SFP-5UD 5 Zone Control Panels And Accessories (28 46 13 31-1125)		
28 46 13 31-1562 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD).....	2,930.14	677.39
28 46 13 31-1563 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC).....	4,150.44	508.04
28 46 13 31-1564 EA 240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE).....	2,741.41	338.69
28 46 13 31-1565 EA Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR).....	2,741.41	338.69
28 46 13 31-1566 EA Class A Converter Module (Notifier N-CAC-5X).....	464.76	33.87
28 46 13 31-1567 EA Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE).....	177.94	20.32
28 46 13 31-1568 EA Five Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-5UDC).....	4,798.75	508.04
Note: Includes internal dress panel with built-in annunciator module		
28 46 13 31-1569 EA 240 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDE).....	3,176.13	338.69
28 46 13 31-1570 EA Red, 120 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDR).....	3,144.57	338.69
28 46 13 31-1571 SFP-10UD 10 Zone Control Panels And Accessories (28 46 13 31-1125)		
28 46 13 31-1572 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC).....	5,099.58	677.39
28 46 13 31-1573 EA 240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE).....	3,814.58	508.04
28 46 13 31-1574 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD).....	3,373.46	677.39
28 46 13 31-1575 EA Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR).....	4,491.97	677.39
28 46 13 31-1576 EA Four Channel, Dual Line, Stand-Alone Fire Alarm Communicator (Fire-Lite 411UDAC).....	880.85	101.61
28 46 13 31-1577 EA 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-10UDC).....	5,838.31	677.39
Note: Includes internal dress panel with built-in annunciator module		
28 46 13 31-1578 EA 240 Volt AC, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDE).....	4,352.43	508.04
28 46 13 31-1579 EA Red, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDR).....	4,992.25	677.39
28 46 13 31-1580 Smoke Detectors (28 46 13 31-1125)		
28 46 13 31-1581 EA Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851).....	329.60	50.80
28 46 13 31-1582 EA Intelligent Addressable Laser Smoke Detector (Notifier FSL-751).....	560.76	50.80
28 46 13 31-1583 EA Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D).....	1,530.03	50.80
28 46 13 31-1584 EA Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R).....	212.59	50.80
Note: For use with DNR(W) duct detector housing.		
28 46 13 31-1585 EA Filters For Harsh Detector (Notifier RF-FTX).....	25.95	
28 46 13 31-1586 EA Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY).....	198.76	33.87
28 46 13 31-1587 EA Addressable Beam Detector With Reflector, UL Listed (Notifier FS-OSI-R).....	2,575.15	50.80
28 46 13 31-1588 EA Intelligent Addressable Photo Detector With Flashscan, White (Notifier FSP-951).....	220.89	50.80
28 46 13 31-1589 EA Intelligent Addressable Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951-IV).....	239.77	50.80
28 46 13 31-1590 EA Remote Test Capable Intelligent Photo Detector With Flashscan, White (Notifier FSP-951R).....	230.33	50.80
28 46 13 31-1591 EA Remote Test Capable Intelligent Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951R-IV).....	247.49	50.80
28 46 13 31-1592 EA Intelligent Addressable Photo/Thermal Detector With Flashscan, White (Notifier FSP-951T).....	231.47	50.80
28 46 13 31-1593 EA Intelligent Addressable Photo/Thermal Detector With Flashscan, Ivory (Notifier FSP-951T-IV).....	248.63	50.80
28 46 13 31-1594 EA Intelligent Addressable 135 Degree Thermal Detector With Flashscan, White (Notifier FST-951).....	190.85	50.80
28 46 13 31-1595 EA Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan (Notifier FST-951H).....	190.85	50.80
28 46 13 31-1596 EA Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan And Clip, Ivory (Notifier FST-951H-IV).....	206.87	50.80
28 46 13 31-1597 EA Intelligent Addressable 135 Degree Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951-IV).....	206.87	50.80
28 46 13 31-1598 EA Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan, White (Notifier FST-951R).....	190.85	50.80
28 46 13 31-1599 EA Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951R-IV).....	206.87	50.80
28 46 13 31-1600 EA Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, White (Notifier FSV-951R).....	488.33	50.80
28 46 13 31-1601 EA Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, Ivory (Notifier FSV-951R-IV).....	522.66	50.80
28 46 13 31-1602 EA Wireless Photo-Heat Detector, Acclimate, With Flashscan (Notifier FWD-200ACCLIMATE).....	487.19	50.80
Note: Requires B210W base, ordered separately		
28 46 13 31-1603 EA Wireless Photo Detector With Flashscan (Notifier FWD-200P).....	449.43	50.80
Note: Requires B210W base, ordered separately		
28 46 13 31-1604 EA Wireless Fixed Temp Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200FIX135).....	409.39	50.80
Note: Requires B210W base, ordered separately		
28 46 13 31-1605 EA Wireless ROR Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200ROR135).....	409.39	50.80
Note: Requires B210W base, ordered separately		
28 46 13 31-1606 EA Intelligent Addressable Carbon Monoxide Detector With Flashscan (Notifier FPC-951).....	301.84	50.80
28 46 13 31-1607 EA Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-250).....	3,974.22	50.80
Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.		
28 46 13 31-1608 EA Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-500).....	4,876.03	50.80
Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.		
28 46 13 31-1609 Pull Stations (28 46 13 31-1125)		
28 46 13 31-1610 EA Trim Ring For NBG12 Series Pull Station (Notifier BG12TR).....	37.35	6.77
28 46 13 31-1611 EA One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Back Box (Notifier BG-2).....	84.04	16.93
28 46 13 31-1612 EA Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Back Box (Notifier BG-2R).....	81.47	16.93
28 46 13 31-1613 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1).....	115.82	33.87

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1614 EA DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F).....	126.27	33.87
28 46 13 31-1615 EA Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F).....	167.38	33.87
28 46 13 31-1616 EA Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R)	115.82	33.87
28 46 13 31-1617 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS).....	131.15	33.87
28 46 13 31-1618 EA Standard Local Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL)	131.15	33.87
28 46 13 31-1619 EA Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR)	131.15	33.87
28 46 13 31-1620 EA Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1)	124.88	33.87
28 46 13 31-1621 EA Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R).....	133.94	33.87
28 46 13 31-1622 EA Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL)	1,307.54	40.64
28 46 13 31-1623 EA Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S).....	110.19	33.87
28 46 13 31-1624 EA Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12).....	115.11	33.87
28 46 13 31-1625 EA Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L)	133.05	33.87
28 46 13 31-1626 EA Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB).....	310.87	40.64
28 46 13 31-1627 EA Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS)	169.28	33.87
28 46 13 31-1628 EA Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR)	143.25	33.87
28 46 13 31-1629 EA Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX)	263.28	33.87
28 46 13 31-1630 EA Pull Station Trim Plate For New York City, For Use With All NBS Series Pull Stations (Notifier NY-PLATE).....	59.54	6.77
28 46 13 31-1631 EA Dual Action, Wireless Pull Station (Notifier NBG-12WL).....	476.02	40.64
28 46 13 31-1632 Rate Compensation Heat Detectors (28 46 13 31-1125)		
28 46 13 31-1633 EA 135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135)	240.94	50.80
28 46 13 31-1634 EA 194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194)	240.94	50.80
28 46 13 31-1635 FM Series Door Releases (28 46 13 31-1125)		
28 46 13 31-1636 EA 1/2" Door Holder Spacer (Notifier FM900-50).....	39.32	10.16
28 46 13 31-1637 EA 3/4" Door Holder Spacer (Notifier FM900-75).....	39.32	10.16
28 46 13 31-1638 EA 1" Door Holder Spacer (Notifier FM900-100).....	39.32	10.16
28 46 13 31-1639 EA Door Holder Extension Kit (Notifier FM900).....	41.69	10.16
28 46 13 31-1640 EA 90 Degree Door Holder Extension Kit (Notifier FM900-Z).....	42.49	10.16
28 46 13 31-1641 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980)	269.24	50.80
28 46 13 31-1642 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996).....	234.61	50.80
28 46 13 31-1643 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998)	234.61	50.80
28 46 13 31-1644 Multicriteria Fire Detector (28 46 13 31-1125)		
28 46 13 31-1645 EA Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851)	359.04	50.80
28 46 13 31-1646 EA Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851).....	357.90	50.80
Note: Detects fire, thermal, photo, CO and IR, with Flashscan.		
28 46 13 31-1647 EA Multi-Criteria Photo/Temp/Infrared Detector, White (Notifier FPTI-951).....	236.62	50.80
28 46 13 31-1648 EA Multi-Criteria Photo/Temp/Infrared Detector, Ivory (Notifier FPTI-951-IV)	244.63	50.80
28 46 13 31-1649 EA Intelligent Addressable Combination Multi-Criteria Photoelectric And Carbon Monoxide Detector With Flashscan (Notifier FSCO-951).....	359.04	50.80
28 46 13 31-1650 Modules (28 46 13 31-1125)		
28 46 13 31-1651 EA Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1).....	423.57	33.87
28 46 13 31-1652 EA Addressable Firephone Control Module (Notifier FTM-1)	264.53	33.87
28 46 13 31-1653 EA Wireless Monitor Module With Flashscan (Notifier FW-MM).....	409.84	33.87
28 46 13 31-1654 EA Wireless Relay Module With Flashscan (Notifier FW-RM).....	472.77	33.87
28 46 13 31-1655 EA Wireless Sync Module (Notifier W-SYNC)	613.24	33.87
28 46 13 31-1656 DH Series Door Releases (28 46 13 31-1125)		
28 46 13 31-1657 EA Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC).....	224.89	50.80
28 46 13 31-1658 EA Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB).....	238.91	50.80
28 46 13 31-1659 EA Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD).....	252.07	50.80
28 46 13 31-1660 EA Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC)	248.63	50.80
28 46 13 31-1661 EA Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB).....	260.07	50.80
28 46 13 31-1662 EA Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD)	269.80	50.80
28 46 13 31-1663 EA Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC).....	224.89	50.80
28 46 13 31-1664 EA Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB)	237.19	50.80
28 46 13 31-1665 EA Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD).....	252.07	50.80
28 46 13 31-1666 EA Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1)	283.53	50.80
28 46 13 31-1667 EA Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1)	301.84	50.80
28 46 13 31-1668 EA Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1)	323.00	50.80
28 46 13 31-1669 EA Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2).....	328.15	50.80
28 46 13 31-1670 EA Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2).....	349.89	50.80
28 46 13 31-1671 EA Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2)	376.21	50.80
28 46 13 31-1672 EA 0.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC)	26.08	6.77
28 46 13 31-1673 EA 0.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B).....	26.08	6.77
28 46 13 31-1674 EA 0.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D)	28.42	6.77
28 46 13 31-1675 EA 1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC).....	26.08	6.77
28 46 13 31-1676 EA 1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B).....	26.08	6.77
28 46 13 31-1677 EA 1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D)	28.42	6.77
28 46 13 31-1678 EA 1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC)	27.28	6.77

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1679 EA 1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC)	27.28	6.77
28 46 13 31-1680 EA 1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B)	28.42	6.77
28 46 13 31-1681 EA 1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D)	29.74	6.77
28 46 13 31-1682 EA 2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC)	29.74	6.77
28 46 13 31-1683 EA 2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC)	29.74	6.77
28 46 13 31-1684 EA 2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B)	30.94	6.77
28 46 13 31-1685 EA 2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D)	30.94	6.77
28 46 13 31-1686 EA 3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC)	30.94	6.77
28 46 13 31-1687 EA 3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B)	32.26	6.77
28 46 13 31-1688 EA 3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D)	32.26	6.77
28 46 13 31-1689 EA 4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC)	33.46	6.77
28 46 13 31-1690 EA 4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC)	33.46	6.77
28 46 13 31-1691 EA 4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB)	34.77	6.77
28 46 13 31-1692 EA 4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD)	38.49	6.77
28 46 13 31-1693 EA 5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC)	37.23	6.77
28 46 13 31-1694 EA 5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B)	35.98	6.77
28 46 13 31-1695 EA 5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D)	38.49	6.77
28 46 13 31-1696 EA Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCPD)	36.51	10.16
28 46 13 31-1697 EA Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB)	37.71	10.16
28 46 13 31-1698 EA Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD)	41.54	10.16
28 46 13 31-1699 EA Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC)	66.43	10.16
28 46 13 31-1700 EA Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB)	70.09	10.16
28 46 13 31-1701 EA Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD)	73.75	10.16
28 46 13 31-1702 EA Surface Mounted Back Box, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC)	62.47	16.93
28 46 13 31-1703 EA Surface Mounted Back Box, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB)	64.99	16.93
28 46 13 31-1704 EA Surface Mounted Back Box, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBB)	70.03	16.93
28 46 13 31-1705 EA Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF)	353.54	
28 46 13 31-1706 First Command (28 46 13 31-1125)		
28 46 13 31-1707 EA Black, 120 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100)	8,300.98	846.73
28 46 13 31-1708 EA Black, 220-240 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E)	8,391.14	846.73
28 46 13 31-1709 EA Black, 120 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA)	2,463.48	67.74
28 46 13 31-1710 EA Black, 220-240 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE)	2,531.10	67.74
28 46 13 31-1711 EA Black, 120 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA)	4,568.84	67.74
28 46 13 31-1712 EA Black, 220-240 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE)	4,719.12	67.74
28 46 13 31-1713 EA 50 Watt, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt)	707.92	33.87
28 46 13 31-1714 EA 50 Watt, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt)	707.92	33.87
28 46 13 31-1715 EA Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4)	529.98	33.87
28 46 13 31-1716 EA Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6)	952.87	33.87
28 46 13 31-1717 EA Standalone Firefighter Telephone System (Notifier NFC-FFT)	3,359.12	67.74
Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.		
28 46 13 31-1718 EA Local Operator Console (Notifier NFC-LOC)	3,286.99	67.74
Note: Includes built-in microphone, message and zone control switches, black.		
28 46 13 31-1719 EA Black, Remote Microphone (Notifier NFC-RM)	975.32	
28 46 13 31-1720 EA Remote Page Unit (Notifier NFC-RPU)	2,768.54	67.74
Note: Includes built-in microphone, message control switches, black.		
28 46 13 31-1721 EA 70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V)	402.98	33.87
28 46 13 31-1722 EA Firefighters Phone Jack (Notifier N-FPJ)	183.36	10.16
28 46 13 31-1723 EA Thumbatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH)	51.90	10.16
28 46 13 31-1724 EA Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B)	165.64	20.32
28 46 13 31-1725 LED Displays (28 46 13 31-1125)		
28 46 13 31-1726 EA 2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215)	2,654.02	40.64
28 46 13 31-1727 EA Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW)	3,731.53	54.19
28 46 13 31-1728 EA 4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT)	3,775.11	54.19
28 46 13 31-1729 EA 8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8)	3,624.84	54.19
28 46 13 31-1730 EA 16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16)	5,082.52	54.19
28 46 13 31-1731 EA LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V)	3,850.25	54.19
28 46 13 31-1732 Control Relays (28 46 13 31-1125)		
28 46 13 31-1733 EA Single SPDT Relay With LED With Metal Back Box And Red Plastic Cover (Notifier MR-101/CR)	82.73	16.93
28 46 13 31-1734 EA Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T)	63.39	16.93
28 46 13 31-1735 EA Four Position SPDT Relay With LEDs With Metal Back Box And Red Plastic Cover (Notifier MR-104/CR)	225.06	33.87
28 46 13 31-1736 EA Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T)	125.69	16.93
28 46 13 31-1737 EA Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T)	149.43	16.93
28 46 13 31-1738 EA 24 Volt DC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C)	231.35	33.87
28 46 13 31-1739 EA 120 Volt AC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C)	231.35	33.87
28 46 13 31-1740 EA Single DPDT Relay With LED With Metal Back Box And Red Plastic Cover (Notifier MR-201/CR)	120.37	33.87
28 46 13 31-1741 EA Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T)	68.42	16.93

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1742	EA	Four Position DPDT Relay With LEDs With Metal Back Box And Red Plastic Cover (Notifier MR-204/CR).....	245.66	33.87	
28 46 13 31-1743	EA	24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1).....	88.56	33.87	
28 46 13 31-1744	EA	12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2).....	88.56	33.87	
28 46 13 31-1745	EA	9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4).....	88.56	33.87	
28 46 13 31-1746 Gamewell-FCI Fire Control Instruments (28 46 13 31-1125)					
28 46 13 31-1747 7100 Series And NetSOLO® (28 46 13 31-1746)					
28 46 13 31-1748 7100 Compact Analog Addressable Fire Alarm Control Panels (28 46 13 31-1747)					
28 46 13 31-1749	EA	Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M).....	1,236.43	406.44	
28 46 13 31-1750	EA	Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2).....	5,306.51	677.39	
28 46 13 31-1751	EA	Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D).....	5,799.52	677.39	
28 46 13 31-1752	EA	Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E).....	5,306.51	677.39	
28 46 13 31-1753	EA	Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E).....	5,799.52	677.39	
28 46 13 31-1754	EA	Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1).....	1,654.42		
28 46 13 31-1755	EA	Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D).....	1,984.25		
28 46 13 31-1756	EA	Analog Loop Unit (Gamewell-FCI ALU).....	1,984.25	67.74	
28 46 13 31-1757 NetSOLO® Intelligent Network (28 46 13 31-1747)					
28 46 13 31-1758	EA	Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO).....	2,201.24	67.74	
Note: Mounted in 7100 panel.					
28 46 13 31-1759	EA	Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP).....	1,748.16	67.74	
Note: Mounted in 7100 panel.					
28 46 13 31-1760 Components And Accessories (28 46 13 31-1747)					
28 46 13 31-1761	EA	Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100).....	1,084.15	50.80	
28 46 13 31-1762	EA	Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100).....	822.91	67.74	
28 46 13 31-1763	EA	Fiber Optic Line Driver Module (Gamewell-FCI FLD-1).....	1,512.07	67.74	
28 46 13 31-1764	EA	Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM).....	607.65	67.74	
28 46 13 31-1765	EA	Enclosure Box (Gamewell-FCI EN-7100).....	491.41	135.48	
28 46 13 31-1766	EA	Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2).....	1,581.47	33.87	
28 46 13 31-1767 E3 Series® Basic System (28 46 13 31-1746)					
28 46 13 31-1768	EA	Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3).....	1,451.80	67.74	
28 46 13 31-1769	EA	Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3).....	1,247.68	67.74	
28 46 13 31-1770	EA	Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3).....	1,451.80	67.74	
28 46 13 31-1771	EA	Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3).....	1,247.68	67.74	
28 46 13 31-1772	EA	LCD Keypad Display (Gamewell-FCI LCD-E3).....	923.65	67.74	
28 46 13 31-1773	EA	Power Supply Module (Gamewell-FCI PM-9).....	1,210.48	67.74	
28 46 13 31-1774	EA	Transponder 9 Amperes Power Supply (Gamewell-FCI PM-9 INX).....	1,018.65	67.74	
28 46 13 31-1775	EA	Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A).....	1,009.02	33.87	
28 46 13 31-1776	EA	Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3).....	577.77	67.74	
28 46 13 31-1777	EA	Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO).....	1,553.09	67.74	
28 46 13 31-1778	EA	Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP).....	1,300.74	67.74	
28 46 13 31-1779	EA	Local Operating Console (Gamewell-FCI 1100-0455).....	868.06	50.80	
28 46 13 31-1780	EA	Network Graphic Annunciator (Gamewell-FCI 1100-0505).....	2,803.07	50.80	
28 46 13 31-1781	EA	70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70).....	1,110.37	67.74	
28 46 13 31-1782	EA	INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326).....	3,390.03	67.74	
28 46 13 31-1783	EA	8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1).....	778.09	135.48	
28 46 13 31-1784	EA	C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC).....	571.29	135.48	
28 46 13 31-1785	EA	Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP).....	125.18	33.87	
28 46 13 31-1786	EA	Programmable Switch Module (Gamewell-FCI ASM-16).....	777.65	67.74	
28 46 13 31-1787	EA	LED Driver module (Gamewell-FCI ANU-48).....	777.65	67.74	
28 46 13 31-1788	EA	Network Graphic Annunciator (Gamewell-FCI NGA).....	2,349.92	50.80	
28 46 13 31-1789 Addressable Devices, Module, Pulls And Accessories (28 46 13 31-1746)					
28 46 13 31-1790 Velociti® Series Sensors And Bases (28 46 13 31-1789)					
28 46 13 31-1791	EA	Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F).....	243.96	50.80	
28 46 13 31-1792	EA	Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F).....	249.16	50.80	
28 46 13 31-1793	EA	Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F).....	264.79	50.80	
28 46 13 31-1794	EA	Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F).....	202.29	50.80	
28 46 13 31-1795	EA	Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F).....	210.97	50.80	
28 46 13 31-1796	EA	Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F).....	202.29	50.80	
28 46 13 31-1797	EA	Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F).....	301.24	50.80	
28 46 13 31-1798	EA	Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS).....	665.79	50.80	
28 46 13 31-1799	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF).....	559.92	84.67	
28 46 13 31-1800	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF).....	629.36	84.67	
28 46 13 31-1801	EA	Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB).....	303.01		
28 46 13 31-1802	EA	Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF).....	61.64	16.93	
28 46 13 31-1803	EA	Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F).....	717.87	50.80	

**Electronic Safety and Security****28****Life Safety****28 40****Fire Detection and Alarm****28 46****28**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1804 EA Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF).....	142.37	16.93
28 46 13 31-1805 EA Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F).....	2,546.72	101.61
28 46 13 31-1806 Velociti® Series Modules And Pull Station (28 46 13 31-1789)		
28 46 13 31-1807 EA Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2F).....	177.97	33.87
28 46 13 31-1808 EA Dual Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2IF)	288.20	33.87
28 46 13 31-1809 EA Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4F)	195.33	33.87
28 46 13 31-1810 EA Subloop Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4SF)	276.05	33.87
28 46 13 31-1811 EA Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF)	230.05	33.87
28 46 13 31-1812 EA Addressable Output Supervised Module (Gamewell-FCI AOM-2SF)	238.73	33.87
28 46 13 31-1813 EA Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF)	332.51	67.74
28 46 13 31-1814 EA Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF)	246.54	33.87
28 46 13 31-1815 EA Telephone Filters (Gamewell-FCI AOM-TEL-FL).....	39.59	6.77
28 46 13 31-1816 Components And Accessories (28 46 13 31-1789)		
28 46 13 31-1817 EA Remote LED Annunciator Alarm (Gamewell-FCI RA400Z)	97.59	27.10
Note: Mounts on single gang box.		
28 46 13 31-1818 EA Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5)	48.80	13.55
28 46 13 31-1819 EA >2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3)	52.27	13.55
28 46 13 31-1820 EA >4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5)	62.51	16.93
28 46 13 31-1821 EA >8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10).....	101.40	20.32
28 46 13 31-1822 EA Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451).....	151.40	27.10
Note: Mounts on single gang box.		
28 46 13 31-1823 Fixed And Rate of Rise Heat Detectors (28 46 13 31-1789)		
28 46 13 31-1824 EA 135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P)	131.12	50.80
28 46 13 31-1825 EA 194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602).....	131.12	50.80
28 46 13 31-1826 EA 135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603)	128.73	50.80
28 46 13 31-1827 EA 194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604)	128.73	50.80
28 46 13 31-1828 NAC Expander/Power Supply (28 46 13 31-1789)		
28 46 13 31-1829 EA FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8).....	2,333.70	541.91
28 46 13 31-1830 EA 6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6).....	2,003.87	541.91
28 46 13 31-1831 EA 9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9).....	2,168.79	541.91
28 46 13 31-1832 Batteries And Accessories (28 46 13 31-1746)		
28 46 13 31-1833 EA B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A)	366.32	33.87
28 46 13 31-1834 EA B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A)	932.23	33.87
28 46 13 31-1835 EA B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A)	192.73	33.87
28 46 13 31-1836 EA BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653)	449.68	67.74
28 46 13 31-1837 EA BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654)	449.68	67.74
28 46 13 31-1838 EA 12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970).....	399.34	67.74
28 46 13 31-1839 Electronic Door Holders (28 46 13 31-1746)		
Note: Rixson products.		
28 46 13 31-1840 EA XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000).....	64.59	6.77
28 46 13 31-1841 EA FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder(Gamewell-FCI 140-90000)	518.23	50.80
28 46 13 31-1842 EA FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001)	707.45	50.80
28 46 13 31-1843 EA FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002).....	329.71	50.80
28 46 13 31-1844 EA FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003).....	314.09	50.80
28 46 13 31-1845 EA FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004)	329.71	50.80
28 46 13 31-1846 EA FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005)	329.02	50.80
28 46 13 31-1847 Fire Alarm Programming (28 46 13 31-1746)		
Note: For device replacement projects only. Tasks not to be used on projects where a fire alarm panel is replaced.		
28 46 13 31-1848 EA Program And Test Up To 5 Total Fire Alarm Devices.....	500.00	
28 46 13 31-1849 EA Program And Test >5 To 20 Total Fire Alarm Devices	1,000.00	
28 46 13 31-1850 EA Program And Test >20 To 50 Total Fire Alarm Devices	2,000.00	
28 46 13 31-1851 Fire-Lite Fire Alarm (28 46 13 31-1124)		
28 46 13 31-1852 Intelligent Addressable Fire Alarm Control Panel (28 46 13 31-1851)		
28 46 13 31-1853 EA 50 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-50X)	1,291.62	270.95
28 46 13 31-1854 EA 198 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-200X).....	1,647.75	304.82
28 46 13 31-1855 EA 954 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-1000X)	2,418.83	338.69
28 46 13 31-1856 EA Loop Expander Module (Fire-Lite SLC-3LS).....	701.29	50.80
28 46 13 31-1857 EA Optional Cabinet For 1 Or 2 Modules (Fire-Lite BB-2F).....	202.33	33.87
28 46 13 31-1858 EA Optional Cabinet For Up To 6 Modules Mounted On CHS-6 (Fire-Lite BB-6F)	281.22	33.87

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1859 EA Battery Back Box (Fire-Lite BB-26).....	172.62	20.32
28 46 13 31-1860 EA Battery Box (Fire-Lite BB-55F).....	312.65	20.32
28 46 13 31-1861 EA Chassis, Mounts Up To 6 Multi-Modules In A BB-6F Cabinet (Fire-Lite CHS-6).....	88.62	13.55
28 46 13 31-1862 EA Chassis, Mounts Up To Six Multi-Modules In A BB-6F Cabine (Fire-Lite CHG-75).....	728.60	33.87
28 46 13 31-1863 EA Battery Charger For Lead-Acid Batteries With A Rating Of 25 To 75 AH (Fire-Lite CHG-120F).....	1,551.46	67.74
28 46 13 31-1864 EA 6 AMP, NAC Expander Power Supply (Fire-Lite FL-PS6).....	843.02	33.87
28 46 13 31-1865 EA 10 AMP, NAC Expander Power Supply (Fire-Lite FL-PS10).....	870.69	33.87
28 46 13 31-1866 EA Remote, Red LCD Annunciator Mimics The Information Displayed On The Face LCD Display (Fire-Lite ANN-80).....	347.93	33.87
28 46 13 31-1867 EA Led Driver Module Provides Connections To A User Supplied Graphic Annunciator (Fire-Lite ANN-I/O).....	423.22	33.87
28 46 13 31-1868 EA Annunciator Module Provides Three Leds For Each Zone: Alarm, Trouble, And Supervisory. Ships With Red Enclosure (Fire-Lite ANN-LED).....	371.59	33.87
28 46 13 31-1869 EA Provides Alarm (Red) Indicators For Up To 30 Input Zones Or Addressable Points (Fire-Lite ANN-RLED).....	371.59	33.87
28 46 13 31-1870 EA Relay Module Provides 10 Programmable Form-C Relays (Fire-Lite ANN-RLY).....	301.08	33.87
28 46 13 31-1871 EA Serial/Parallel Printer Gateway Module (Fire-Lite ANN-S/PG).....	294.69	33.87
28 46 13 31-1872 EA Addressable Low-Profile Photoelectric Smoke Detector (Fire-Lite SD365 A).....	163.78	50.80
28 46 13 31-1873 EA Addressable Low-Profile Photoelectric Smoke Detector With Thermal Sensor (Fire-Lite SD365T A).....	181.19	50.80
28 46 13 31-1874 EA Remote Test Capable Addressable Photoelectric Smoke Detector For Use With DNR (W) Duct Detector Housing (Fire-Lite SD365R A).....	186.18	50.80
28 46 13 31-1875 EA Addressable, Low-Profile Device That Provides Fire, Heat, And Carbon Monoxide (CO) Detection (Fire-Lite SD365CO).....	317.85	50.80
28 46 13 31-1876 EA Low-Profile 135°F Fixed Thermal Sensor (Fire-Lite H365 A).....	157.55	50.80
28 46 13 31-1877 EA Low-Profile, Intelligent, Rate-Of-Rise Thermal Sensor (Fire-Lite H365R A).....	174.89	50.80
28 46 13 31-1878 EA Low-Profile Intelligent 190°F/88°C Fixed Thermal Sensor (Fire-Lite H365HT A).....	203.17	50.80
28 46 13 31-1879 EA Low-Flow Non-Relay Duct-Detector Housing (Fire-Lite D365PL).....	598.74	50.80
28 46 13 31-1880 EA Addressable Low-Profile Ionization Smoke Detector (Fire-Lite CP355 A).....	233.96	50.80
28 46 13 31-1881 EA Addressable Low-Profile Photoelectric Smoke Detector (Fire-Lite SD355 A).....	163.78	50.80
28 46 13 31-1882 EA Addressable Low-Profile Photoelectric Smoke Detector With Thermal Sensor (Fire-Lite SD355T A).....	205.81	50.80
28 46 13 31-1883 EA Remote Test Capable Addressable Photoelectric Smoke Detector For Use With DNR (W) Duct Detector Housing (Fire-Lite SD355R A).....	228.08	50.80
28 46 13 31-1884 EA Addressable, Low-Profile Device That Provides Fire, Heat, And Carbon Monoxide (Co) Detection (Fire-Lite SD355CO).....	173.10	50.80
28 46 13 31-1885 EA Fast-Response, Low-Profile Heat Detector (Fire-Lite H355 A).....	205.23	50.80
28 46 13 31-1886 EA Fast-Response, Low-Profile Heat Detector With Rate-Of-Rise Option (Fire-Lite H355R A).....	199.26	50.80
28 46 13 31-1887 EA Fast-Response, Low-Profile Heat Detector That Activates At 190°F/88°C (Fire-Lite H355HT A).....	230.04	50.80
28 46 13 31-1888 EA Low-Profile, Intelligent, 'Adapt' Multi-Sensor Detector (B350LP Base Included) (Fire-Lite AD355 A).....	225.14	50.80
28 46 13 31-1889 EA Programmable, Addressable Sounder Base (Fire-Lite B200S(A)-WH).....	143.67	33.87
28 46 13 31-1890 EA Addressable Sounder Base (Fire-Lite B200SR(A)-WH).....	163.89	33.87
28 46 13 31-1891 EA Programmable, Addressable Sounder Base, Low-Frequency (Fire-Lite B200S-LF-WH).....	185.67	33.87
28 46 13 31-1892 EA Addressable Sounder Base, Low-Frequency (Fire-Lite B200SR-LF-WH).....	189.34	33.87
28 46 13 31-1893 EA Intelligent Beam Smoke Detector (Fire-Lite BEAM355).....	1,606.52	50.80
28 46 13 31-1894 EA Intelligent Beam Smoke Detector With Integral Sensitivity Test (Fire-Lite BEAM355S).....	1,835.94	50.80
28 46 13 31-1895 EA Innovairflex Low-Flow Non-Relay Duct-Detector Housing (Includes SD355R) (Fire-Lite D355PL A).....	269.50	33.87
28 46 13 31-1896 EA Innovairflex Low-Flow Non-Relay Duct-Detector Housing (Fire-Lite DNR A).....	168.67	33.87
28 46 13 31-1897 EA Innovairflex Low-Flow Non-Relay Duct-Detector Housing, With NEMA-4 Rating, Watertight (Fire-Lite DNRW).....	252.50	33.87
28 46 13 31-1898 EA Addressable Control Module For One Class B Or A Zone Of Supervised Polarized Notification Appliances (Fire-Lite CMF-300).....	109.21	20.32
28 46 13 31-1899 EA Six-Circuit Supervised Control Module (Fire-Lite CMF-300-6).....	539.39	33.87
28 46 13 31-1900 EA Addressable Relay Module Containing Two Isolated Sets Of Form-C Contacts, Which Operate As A Dpdt Switch (Fire-Lite CRF-300).....	165.87	33.87
28 46 13 31-1901 EA Six-Relay Control Module (Form-C Relays) (Fire-Lite CRF-300-6).....	452.57	33.87
28 46 13 31-1902 EA Module Isolates The SLC (DCL) Loop From Short Circuit Conditions (Fire-Lite I300).....	89.46	16.93
28 46 13 31-1903 EA Six-Fault Isolator Module (Fire-Lite ISO-6).....	406.75	33.87
28 46 13 31-1904 EA Dual Monitor Module (Fire-Lite MDF-300).....	199.09	33.87
28 46 13 31-1905 EA Addressable Monitor Module For One Zone Of Normally-Open Dry-Contact Initiating Devices (Fire-Lite MMF-300).....	89.22	16.93
28 46 13 31-1906 EA Ten-Input Monitor Module (Fire-Lite MMF-300-10).....	582.78	33.87
28 46 13 31-1907 EA Miniature Version Of MMF-300 (Fire-Lite MMF-301).....	120.07	27.10
28 46 13 31-1908 EA Addressable Monitor Module For One Zone Of Conventional Two-Wire Detectors (Fire-Lite MMF-302).....	169.27	33.87
28 46 13 31-1909 EA Six-Zone Interface Module (Fire-Lite MMF-302-6).....	576.53	33.87
28 46 13 31-1910 EA Mount For Modules (Fire-Lite SMB500).....	17.99	3.39
28 46 13 31-1911 Addressable Control Panels (28 46 13 31-1851)		
28 46 13 31-1912 EA 25 Point Intelligent Control (Fire Lite MS-25).....	2,409.28	677.39
28 46 13 31-1913 EA 50 Point Intelligent Control (Fire Lite MS-9050UD).....	2,665.85	677.39
28 46 13 31-1914 EA 198-Point Intelligent Control (Fire Lite MS-9200UDLS).....	3,738.67	677.39
28 46 13 31-1915 EA 636-Point Intelligent Control (Fire Lite MS-9600LS).....	5,541.18	677.39
28 46 13 31-1916 EA 636-Point Intelligent Control (Fire Lite MS-9600UDLS).....	5,425.73	677.39
28 46 13 31-1917 EA IP And 4G Cellur Fire Alram Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G).....	713.45	
28 46 13 31-1918 Silent Knight Fire Alarm (28 46 13 31-1124)		
28 46 13 31-1919 Addressable Fire Alarm Control Panel (28 46 13 31-1918)		
28 46 13 31-1920 EA Addressable Fire Alarm Control Panel (Silent Knight 6820).....	2,488.43	338.69
28 46 13 31-1921 Intelligent Addressable Fire Alarm Control Panel with Emergency Voice System (28 46 13 31-1918)		
28 46 13 31-1922 EA Intelligent Fire Alarm Control Panel with Emergency Voice System (Silent Knight 6820EVS).....	4,711.18	338.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1923 Compatible EVS Equipment (28 46 13 31-1918)		
28 46 13 31-1924 EA 50 Watt Amplifier (Silent Knight EVS-50W).....	861.73	67.74
28 46 13 31-1925 EA 125 Watt Amplifier (Silent Knight EVS-125W).....	1,491.04	67.74
28 46 13 31-1926 EA 50/100 Watt Amplifier (Silent Knight EVS-100W).....	1,847.05	67.74
28 46 13 31-1927 EA External Backup Amplifier (Silent Knight EVS-100WBU).....	666.10	67.74
28 46 13 31-1928 EA 50 Watt Internal Amplifier (Silent Knight EVS-INT50W).....	627.92	67.74
28 46 13 31-1929 EA 4 Additional Audio Circuits (Silent Knight EVS-CE4).....	225.56	16.93
28 46 13 31-1930 EA Remote Voice Module (Silent Knight EVS-RVM).....	986.92	27.10
28 46 13 31-1931 EA 24 Switch Expander (Silent Knight EVS-SW24).....	400.47	33.87
28 46 13 31-1932 EA Network Voice Control Module (Silent Knight EVS-VCN).....	1,179.17	27.10
28 46 13 31-1933 EA Local Operator Console (Silent Knight EVS-LOC).....	1,599.76	67.74
28 46 13 31-1934 Compatible SBUS Devices (28 46 13 31-1918)		
28 46 13 31-1935 EA 4x40 LCD Remote Fire Annunciator With Four Programmable Buttons, Red (Silent Knight 6860).....	968.82	67.74
28 46 13 31-1936 EA 4x20 LCD Remote Fire Annunciator, Gray (Silent Knight 5860).....	449.31	67.74
28 46 13 31-1937 EA 4x20 LCD Remote Fire Annunciator, Red (Silent Knight 5860R).....	530.00	67.74
28 46 13 31-1938 EA 4x20 LCD Remote Fire Annunciator, Red (Silent Knight 6855).....	357.83	67.74
28 46 13 31-1939 EA LED Annunciators- Display Up To 30 LEDs (15 Red/15 Yellow) (Silent Knight 5865-3).....	452.34	67.74
28 46 13 31-1940 EA LED Annunciators- Display Up To 30 LEDs (15 Red/15 Yellow) With Key Switches For Silence And Reset, And A System Trouble Led (Silent Knight 5865-4).....	476.60	67.74
28 46 13 31-1941 EA LED I/O Module With 40 Programmable LED Outputs And Eight Supervised Dry Contact Inputs (Silent Knight 5880).....	371.48	50.80
28 46 13 31-1942 EA Relay Interface. Provides 10 Form C Relays (Silent Knight 5883).....	226.54	33.87
28 46 13 31-1943 EA Serial/Parallel Printer Interface Module For Printer Connection (Silent Knight 5824).....	302.01	33.87
28 46 13 31-1944 SK Compatible Addressable Device (28 46 13 31-1918)		
28 46 13 31-1945 EA Multi Criteria Photoelectric Smoke Detector With Thermal 135°F Fixed Temperature (Silent Knight SK-ACCLIMATE).....	170.60	50.80
28 46 13 31-1946 EA Reflected Beam Smoke Detector Without Test Feature (Silent Knight SK-BEAM).....	881.97	50.80
28 46 13 31-1947 EA Reflected Beam Smoke Detector With Test Feature (Silent Knight SK-BEAM-T).....	997.31	50.80
28 46 13 31-1948 EA Reflected Beam Smoke Detector, SK Protocol (Silent Knight OSI-RI-SK).....	1,122.40	50.80
28 46 13 31-1949 EA Supervised Control Module (Silent Knight SK-CONTROL).....	169.08	50.80
28 46 13 31-1950 EA Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6).....	475.60	67.74
28 46 13 31-1951 EA Photoelectric Duct Smoke Detector With Extended Air Speed Range (Silent Knight SK-DUCT).....	262.64	50.80
28 46 13 31-1952 EA Four Criteria Fire And Carbon Monoxide Detector (Silent Knight SK-FIRE-CO).....	238.86	50.80
28 46 13 31-1953 EA Four Criteria Fire And Carbon Monoxide Detector, White (Silent Knight SK-FIRE-CO-W).....	264.55	50.80
28 46 13 31-1954 EA Fixed Thermal Detector (135°F) (Silent Knight SK-HEAT).....	156.82	50.80
28 46 13 31-1955 EA Fixed Thermal Detector (135°F), White (Silent Knight SK-HEAT-W).....	160.73	50.80
28 46 13 31-1956 EA Fixed Rate Of Rise Detector (Silent Knight SK-HEAT-ROR).....	158.36	50.80
28 46 13 31-1957 EA Fixed Rate Of Rise Detector, White (Silent Knight SK-HEAT-ROR-W).....	160.73	50.80
28 46 13 31-1958 EA Fixed High Temperature Heat Detector (190°F) (Silent Knight SK-HEAT-HT).....	156.82	50.80
28 46 13 31-1959 EA Fixed High Temperature Heat Detector (190°F), White (Silent Knight SK-HEAT-HT-W).....	160.73	50.80
28 46 13 31-1960 EA Fault Isolator Module (Silent Knight SK-ISO).....	156.82	50.80
28 46 13 31-1961 EA Mini Monitor Module (Silent Knight SK-MINIMON).....	146.07	50.80
28 46 13 31-1962 EA Monitor Module (Silent Knight SK-MONITOR).....	154.02	50.80
28 46 13 31-1963 EA Dual Input Monitor Module (Silent Knight SK-MONITOR-2).....	193.63	50.80
28 46 13 31-1964 EA 10 Input Monitor Module (Silent Knight SK-MON-10).....	533.27	67.74
28 46 13 31-1965 EA Photoelectric Smoke Detector (Silent Knight SK-PHOTO).....	159.89	50.80
28 46 13 31-1966 EA Photoelectric Smoke Detector, White (Silent Knight SK-PHOTO-W).....	167.93	50.80
28 46 13 31-1967 EA Photoelectric Detector With Remote Test Capability (Silent Knight SK-PHOTO-R).....	162.18	50.80
28 46 13 31-1968 EA Photoelectric Detector With Remote Test Capability, White (Silent Knight SK-PHOTO-R-W).....	170.34	50.80
28 46 13 31-1969 EA Photoelectric Smoke Detector With Fixed Thermal Heat (135°F) (Silent Knight SK-PHOTO-T).....	166.02	50.80
28 46 13 31-1970 EA Photoelectric Smoke Detector With Fixed Thermal Heat (135°F), White (Silent Knight SK-PHOTO-T-W).....	174.16	50.80
28 46 13 31-1971 EA Multi Criteria Photoelectric Smoke Detector With Thermal 135°F Fixed Temperature, White (Silent Knight SK-PTIR-W).....	183.77	50.80
28 46 13 31-1972 EA Addressable Single Action Pull Station (Silent Knight SK-PULL-SA).....	145.29	33.87
28 46 13 31-1973 EA Addressable Dual Action Pull Station (Silent Knight SK-PULL-DA).....	145.29	33.87
28 46 13 31-1974 EA Addressable Relay Module (Silent Knight SK-RELAY).....	135.21	33.87
28 46 13 31-1975 EA Addressable Six Relay Control Module (Silent Knight SK-RELAY-6).....	463.77	67.74
28 46 13 31-1976 EA Addressable Dual Relay/Monitor Module (Silent Knight SK-RELAYMON-2).....	293.30	50.80
28 46 13 31-1977 EA Addressable Zone Interface Module (Silent Knight SK-ZONE).....	181.36	50.80
28 46 13 31-1978 EA Six Zone Interface Module (Silent Knight SK-ZONE-6).....	553.98	67.74
28 46 13 31-1979 SK Bases (28 46 13 31-1918)		
28 46 13 31-1980 EA 6" Mounting Base (Silent Knight B210LP).....	46.52	16.93
28 46 13 31-1981 EA 4" Flangeless Mounting Base (Silent Knight B501).....	49.08	16.93
28 46 13 31-1982 EA Intelligent Sounder Base (Silent Knight B200S).....	89.07	16.93
28 46 13 31-1983 EA Low-Frequency Intelligent Sounder Base (Silent Knight B200-LF).....	121.29	16.93
28 46 13 31-1984 EA Relay Base (Silent Knight B224RB).....	74.37	16.93
28 46 13 31-1985 EA Isolator Base (Silent Knight B224BI).....	73.58	16.93
28 46 13 31-1986 SD Compatible Addressable Device (28 46 13 31-1918)		
28 46 13 31-1987 EA Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB).....	44.91	16.93
28 46 13 31-1988 EA Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB).....	58.38	16.93
28 46 13 31-1989 EA 6" Addressable Relay Base (Silent Knight SD505-6RB).....	148.54	16.93
28 46 13 31-1990 EA 6" Addressable Sounder Base (Silent Knight SD505-6SB).....	153.59	16.93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1991 EA Addressable Input Module (Silent Knight SD500-AIM)	256.10	50.80
28 46 13 31-1992 EA Addressable Notification Module (Silent Knight SD500-ANM)	245.78	50.80
28 46 13 31-1993 EA Addressable Relay Module (Silent Knight SD500-ARM)	263.63	50.80
28 46 13 31-1994 System Expanders (28 46 13 31-1918)		
28 46 13 31-1995 EA SLC Expander For IDP Or SK Devices (Silent Knight 6815)	528.57	67.74
28 46 13 31-1996 EA SLC Expander For SD Devices (Silent Knight 5815XL)	469.01	67.74
28 46 13 31-1997 EA 6A Power Supply With 6 Flexput Circuits And 2 Form C Relays (Silent Knight RPS-1000)	801.23	33.87
28 46 13 31-1998 EA 6 AMP NAC Power Expander With 4 Power-Limited Output Ckts (Silent Knight 5496)	589.82	101.61
28 46 13 31-1999 Miscellaneous Accessories (28 46 13 31-1918)		
28 46 13 31-2000 EA Remote Battery Box Accessory Cabinet (Silent Knight RBB)	145.95	33.87
28 46 13 31-2001 Silent Knight Fire Alarm (28 46 13 31-1124)		
28 46 13 31-2002 EA Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS)	5,804.46	338.69
28 46 13 31-2003 EA Supervised Remote Command Unit (Silent Knight EVS-RCU)	2,400.82	203.21
28 46 13 31-2004 EA Voice Evacuation System (Silent Knight SKE-450)	2,881.51	135.48
28 46 13 31-2005 EA Fire Fighters Telephone (Silent Knight SK-FFT)	2,387.62	135.48
28 46 13 31-2006 EA Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL)	2,537.57	203.21
28 46 13 31-2007 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808)	1,813.76	135.48
28 46 13 31-2008 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700)	1,382.33	135.48
28 46 13 31-2009 EA Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600)	1,189.56	135.48
28 46 13 31-2010 EA Ionization Smoke Detector (Silent Knight SK-ION)	225.91	50.80
28 46 13 31-2011 EA Sounder Base (Silent Knight B200SR)	128.67	16.93
28 46 13 31-2012 EA Intelligent Sounder Base (Silent Knight B200S)	136.36	16.93
28 46 13 31-2013 EA Isolator Base (Silent Knight B224BI)	106.92	16.93
28 46 13 31-2014 EA Relay Base (Silent Knight B224RB)	108.18	16.93
28 46 13 31-2015 EA Analog Ionization Smoke Detector (Silent Knight SD505-AIS)	221.00	50.80
28 46 13 31-2016 EA Addressable Heat Sensor (Silent Knight SD505-AHS)	187.99	50.80
28 46 13 31-2017 EA Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS)	206.66	50.80
28 46 13 31-2018 EA 6" Isolator Base (Silent Knight SD505-6IB)	135.10	16.93
28 46 13 31-2019 EA SLC Annunciator Driver Module (Silent Knight SD500-LED)	895.74	101.61
28 46 13 31-2020 EA Loop Isolation Module (Silent Knight SD500-LIM)	214.36	50.80
28 46 13 31-2021 EA Addressable Mini Input Module (Silent Knight SD500-MIM)	168.97	33.87
28 46 13 31-2022 EA Single Action Addressable Pull Station (Silent Knight SD500-PS)	218.27	33.87
28 46 13 31-2023 EA Dual Action Addressable Pull Station (Silent Knight SD500-PSDA)	208.40	33.87
28 46 13 31-2024 EA Back Box (Silent Knight SK-PSSMBB)	95.51	27.10
28 46 13 31-2025 EA Smoke Detector Module (Silent Knight SD500-SDM)	239.79	50.80
28 46 13 31-2026 EA Addressable Duct Housing (Silent Knight SD505-DUCT)	313.47	50.80
28 46 13 31-2027 EA Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR)	508.63	50.80
28 46 13 31-2028 EA Addressable Duct Detector Test Switch (Silent Knight SD505-DTS)	211.80	50.80
28 46 13 31-2029 EA Intelligent Power Module (Silent Knight 5895XL)	1,291.89	135.48
28 46 13 31-2030 EA Addressable Pull Station (Silent Knight SK-Pull-DA/SA)	208.40	33.87
28 46 13 31-2031 EA Digital Fire Communicator with Cabinet (Silent Knight SK-5104)	726.75	101.61
28 46 13 31-2032 EA Communicator (Silent Knight IPGSM-4G)	1,078.06	67.74
28 46 13 31-2033 EA Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)	1,703.23	135.48
28 46 13 31-2034 EA 10 Zone Expander (Silent Knight SK-5217)	477.18	33.87
28 46 13 31-2035 EA Remote Annunciator (Silent Knight SK-5235)	477.47	67.74
28 46 13 31-2036 EA Status Display Module (Silent Knight 5280)	138.23	33.87
28 46 13 31-2037 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4)	968.24	135.48
28 46 13 31-2038 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E)	987.27	135.48
28 46 13 31-2039 EA Dress Panel (Silent Knight SK-DP2/4)	183.05	33.87
28 46 13 31-2040 EA Class A Converter (Silent Knight SK-CAC4)	477.32	50.80
28 46 13 31-2041 EA Transmitter Module (Silent Knight SK-4XTM)	252.14	50.80
28 46 13 31-2042 EA LED Interface Module (Silent Knight SK-4XLM)	232.39	50.80
28 46 13 31-2043 EA 110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24)	238.00	33.87
28 46 13 31-2044 EA Remote Annunciator (Silent Knight SK-RZA4)	232.39	50.80
28 46 13 31-2045 EA Zone Relay Module (Silent Knight SK-4XZM)	249.66	50.80
28 46 13 31-2046 EA Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2)	837.33	135.48
28 46 13 31-2047 EA Manual Pull Station (single action) (Silent Knight PS-SATK)	115.52	33.87
28 46 13 31-2048 EA Manual Pull Station (dual action) (Silent Knight PS-DATK)	125.05	33.87
28 46 13 31-2049 EA Manual Pull Station (dual action) (Silent Knight PS-DA)	122.38	33.87
28 46 13 31-2050 EA Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH)	109.30	33.87
28 46 13 31-2051 EA Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB)	244.16	40.64
28 46 13 31-2052 EA 6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495)	845.76	101.61
28 46 13 31-2053 EA 9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499)	950.47	101.61
28 46 13 31-2054 EA Detector (Silent Knight IDP-PhotoR)	291.52	50.80
28 46 13 31-2055 EA Monitoring Module (Silent Knight IDP)	301.52	50.80
28 46 13 31-2056 EA I/O Input-Output Module (Silent Knight SK-2880)	767.42	33.87
28 46 13 31-2057 EA Remote Annunciator (Silent Knight RA-2000)	2,202.31	101.61
28 46 13 31-2058 EA Power Supply (Silent Knight 5195/96)	1,367.16	33.87
28 46 13 31-2059 EA 8 Zone Expander (Silent Knight SK-5210)	1,067.29	33.87
28 46 13 31-2060 EA LCD Remote Annunciator (Silent Knight SK-5230)	453.38	67.74
28 46 13 31-2061 EA Ionization Smoke Detector (Silent Knight SK-ION)	225.91	50.80
28 46 13 31-2062 EA Addressable Relay Module (Silent Knight IDP-Relay)	251.54	50.80
28 46 13 31-2063 EA Telephone Line Monitor (Silent Knight SK-7150)	157.70	33.87
28 46 13 31-2064 EA Serial Driver Board (Silent Knight SK-2884)	289.64	33.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2065 EA Smoke Detector Base (Silent Knight IDP-6AB).....	83.85	16.93
28 46 13 31-2066 EA Mini Input Module (Silent Knight IDP-MINIMON).....	217.67	33.87
28 46 13 31-2067 EA Status Display Module (Silent Knight SK-4180).....	787.42	33.87
28 46 13 31-2068 EA 8-Channel Digital Communicator (Silent Knight SK-1420).....	467.56	33.87
28 46 13 31-2069 EA Serial Parallel Module (Silent Knight SK-4824).....	427.58	33.87
28 46 13 31-2070 EA Power Supply (Silent Knight SK-5197 / SK-5198).....	1,567.06	33.87
28 46 13 31-2071 EA 4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204).....	2,669.87	135.48
28 46 13 31-2072 EA Intelligent Ionization Smoke Detector (Silent Knight IDP-ION).....	301.52	50.80
28 46 13 31-2073 EA Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo).....	251.54	50.80
28 46 13 31-2074 Alerton Fire Alarm (28 46 13 31)		
28 46 13 31-2075 EA UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100).....	617.57	10.16
28 46 13 31-2076 Cooper Fire Alarm (28 46 13 31)		
28 46 13 31-2077 EA Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R).....	208.47	33.87
28 46 13 31-2078 EA Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001).....	4,819.26	57.58
28 46 13 31-2079 EA Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002).....	6,357.10	57.58
28 46 13 31-2080 EA Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001).....	2,317.52	67.74
28 46 13 31-2081 EA Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002).....	2,331.19	67.74
28 46 13 31-2082 EA Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007).....	2,331.19	67.74
28 46 13 31-2083 EA Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001).....	1,726.30	67.74
28 46 13 31-2084 EA Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003).....	1,726.30	67.74
28 46 13 31-2085 EA Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004).....	1,726.30	67.74
28 46 13 31-2086 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005).....	2,331.19	67.74
28 46 13 31-2087 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006).....	2,331.19	67.74
28 46 13 31-2088 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007).....	2,331.19	67.74
28 46 13 31-2089 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008).....	2,331.19	67.74
28 46 13 31-2090 EA Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Backstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002).....	2,331.19	67.74
28 46 13 31-2091 EA Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001).....	2,684.89	67.74
28 46 13 31-2092 EA Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003).....	2,493.51	67.74
28 46 13 31-2093 EA Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005).....	2,493.51	67.74
28 46 13 31-2094 EA Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006).....	2,493.51	67.74
28 46 13 31-2095 Light Engineered Displays Message Boards (28 46 13 31)		
28 46 13 31-2096 EA Two Message Sign, Announcement And Evacuate (LED SP-2/MNS).....	994.92	40.64
28 46 13 31-2097 EA Four Message Sign, Fire, Weather, Announcement, E Voltuate (LED SP-4).....	877.33	40.64
28 46 13 31-2098 Safety Technology International Fire Alarm (28 46 13 31)		
28 46 13 31-2099 Enclosures (28 46 13 31-2098)		
28 46 13 31-2100 EA 6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF060604-O).....	138.51	20.32
28 46 13 31-2101 EA 6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF060604-W).....	177.84	20.32
28 46 13 31-2102 EA 8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080604-O).....	141.14	20.32
28 46 13 31-2103 EA 8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080604-W).....	178.71	20.32
28 46 13 31-2104 EA 8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080804-O).....	144.63	20.32
28 46 13 31-2105 EA 8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080804-W).....	204.93	20.32
28 46 13 31-2106 EA 10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF100806-O).....	150.75	20.32
28 46 13 31-2107 EA 10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF100806-W).....	204.06	20.32
28 46 13 31-2108 EA 12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF121006-O).....	161.24	20.32
28 46 13 31-2109 EA 12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF121006-W).....	220.66	20.32
28 46 13 31-2110 EA 14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF141206-O).....	190.07	20.32
28 46 13 31-2111 EA 14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141206-W).....	283.58	20.32
28 46 13 31-2112 EA 14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF141208-O).....	204.06	20.32
28 46 13 31-2113 EA 14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141208-W).....	355.24	20.32
28 46 13 31-2114 EA 16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF161408-O).....	216.29	20.32
28 46 13 31-2115 EA 16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF161408-W).....	365.72	20.32
28 46 13 31-2116 EA 18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF181610-O).....	255.61	20.32
28 46 13 31-2117 EA 18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF181610-W).....	375.34	20.32
28 46 13 31-2118 EA 20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF201610-O).....	365.72	20.32
28 46 13 31-2119 EA 20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF201610-W).....	538.75	20.32
28 46 13 31-2120 EA 6" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP060605-O).....	105.31	20.32
28 46 13 31-2121 EA 6" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP060605-T).....	114.05	20.32
28 46 13 31-2122 EA 8" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080605-O).....	109.24	20.32

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2123 EA 8" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080605-T).....	116.67	20.32
28 46 13 31-2124 EA 8" Height x 8" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080805-O)	112.74	20.32
28 46 13 31-2125 EA 8" Height x 8" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080805-T).....	121.47	20.32
28 46 13 31-2126 EA 10" Height x 8" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP100806-O)	114.05	20.32
28 46 13 31-2127 EA 10" Height x 8" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP100806-T).....	131.96	20.32
28 46 13 31-2128 EA 10" Height x 8" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP100807-O)	119.29	20.32
28 46 13 31-2129 EA 10" Height x 8" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP100807-T).....	135.46	20.32
28 46 13 31-2130 EA 10" Height x 10" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP101006-O)	124.10	20.32
28 46 13 31-2131 EA 10" Height x 10" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP101006-T).....	137.64	20.32
28 46 13 31-2132 EA 12" Height x 10" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP121007-O)	125.41	20.32
28 46 13 31-2133 EA 12" Height x 10" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP121007-T).....	142.01	20.32
28 46 13 31-2134 EA 14" Height x 12" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP141207-O)	145.51	20.32
28 46 13 31-2135 EA 14" Height x 12" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP141207-T).....	178.71	20.32
28 46 13 31-2136 EA 16" Height x 14" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP161409-O)	159.49	20.32
28 46 13 31-2137 EA 16" Height x 14" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP161409-T).....	211.92	20.32
28 46 13 31-2138 EA 18" Height x 16" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP181604-O)	176.09	20.32
28 46 13 31-2139 EA 18" Height x 16" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP181604-T).....	226.78	20.32
28 46 13 31-2140 EA 18" Height x 16" Width x 11" Depth, Opaque, Polycarbonate Enclosure (STI EP181611-O)	198.81	20.32
28 46 13 31-2141 EA 18" Height x 16" Width x 11" Depth, Tinted, Polycarbonate Enclosure (STI EP181611-T).....	264.35	20.32
28 46 13 31-2142 EA 20" Height x 16" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP201608-O)	311.54	20.32
28 46 13 31-2143 EA 20" Height x 16" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP201608-T).....	325.52	20.32
28 46 13 31-2144 EA 24" Height x 24" Width x 10" Depth, Opaque, Polycarbonate Enclosure (STI EP242410-O)	465.35	20.32
28 46 13 31-2145 EA 24" Height x 24" Width x 10" Depth, Tinted, Polycarbonate Enclosure (STI EP242410-T).....	537.88	20.32
28 46 13 31-2146 STI® Fire Alarm Devices (28 46 13 31-2098)		
28 46 13 31-2147 EA Pull Station Polycarbonate Cover, Semi-Flush With Horn (STI-1100)	164.29	20.32
Note: Includes 9 Volt DC self contained battery.		
28 46 13 31-2148 EA Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130)	178.71	20.32
28 46 13 31-2149 EA Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200)	108.15	20.32
28 46 13 31-2150 EA Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D)	109.02	20.32
Note: For surface mounted horn strobes.		
28 46 13 31-2151 EA Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E)	97.66	20.32
28 46 13 31-2152 EA Strobe Damage Stopper And Open Back Box With Conduit Knockout (STI-1221D)	109.02	20.32
Note: For surface mounted strobe.		
28 46 13 31-2153 EA Strobe Damage Stopper And Open Back Box, Semi-Flush (STI-1221E).....	89.14	20.32
28 46 13 31-2154 EA NEMA 4X Rated Polycarbonate Dome Cover (STI-1229).....	200.56	20.32
28 46 13 31-2155 EA Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230)	135.89	20.32
Note: For surface mounted pull stations.		
28 46 13 31-2156 EA Backplate For Polycarbonate Cover (STI-1280)	68.25	20.32
28 46 13 31-2157 EA Conduit Gasket For Polycarbonate Cover (STI-3003)	51.13	20.32
28 46 13 31-2158 EA Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100)	69.22	20.32
28 46 13 31-2159 EA Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150)	151.19	20.32
28 46 13 31-2160 EA 8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A)	126.28	20.32
28 46 13 31-2161 EA Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100)	94.82	20.32
28 46 13 31-2162 EA Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601).....	90.01	20.32
28 46 13 31-2163 EA Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602)	87.17	20.32
28 46 13 31-2164 EA Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604)	90.01	20.32
28 46 13 31-2165 EA Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605).....	87.17	20.32
28 46 13 31-2166 EA Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609).....	90.01	20.32
28 46 13 31-2167 EA Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610).....	87.17	20.32
28 46 13 31-2168 EA Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625)	165.17	20.32
28 46 13 31-2169 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705).....	81.45	20.32
28 46 13 31-2170 EA Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R)	114.12	20.32
28 46 13 31-2171 EA Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706)	120.60	20.32
28 46 13 31-2172 EA Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707).....	120.60	20.32
28 46 13 31-2173 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708).....	89.14	20.32
28 46 13 31-2174 EA Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R).....	89.14	20.32
28 46 13 31-2175 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711).....	81.45	20.32
28 46 13 31-2176 EA Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713).....	89.14	20.32
28 46 13 31-2177 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714).....	89.14	20.32
28 46 13 31-2178 EA Yellow, High Threat, Push Button Station (STI SS-2201)	137.79	10.16
28 46 13 31-2179 EA Gasket Kit For STI Covers (STI SUB-121).....	57.52	
28 46 13 31-2180 EA Universal Cover With Horn, Flush Mount, Momentary Button, Exit Label, Green Stopper Station (STI SS-2144XT)	211.92	20.32
28 46 13 31-2181 EA No Cover, Push And Turn-To-Reset Button, Evacuation Label, Yellow Stopper Station (STI SS-2201EV).....	118.85	20.32
28 46 13 31-2182 EA No Cover, Push And Key-To-Rest Button, Emergency Label, Blue Stopper Station (STI SS-2400EM).....	118.85	20.32
28 46 13 31-2183 EA Universal Cover With Horn, Flush Mount, Push And Key-To-Reset Button, Emergency Label, Blue Stopper Station (STI SS-2440EM)	211.92	20.32
28 46 13 31-2184 EA Flush Mounted, Weather Stopper II (STI-1250)	127.37	20.32
28 46 13 31-2185 EA Flush Mounted, Clear, Universal Stopper (STI-13000NC)	87.17	20.32
28 46 13 31-2186 EA Flush Mounted, Universal, Fire Label, Red, Stopper With Horn (STI-13020FR).....	144.19	20.32
28 46 13 31-2187 EA Surface Mounted, Clear, Universal Stopper (STI-13200NC)	103.56	20.32
28 46 13 31-2188 EA Surface Mounted, Fire Label, Red, Universal Stopper (STI-13210FR).....	112.30	20.32
28 46 13 31-2189 EA Surface Mounted, No Label, White, Universal Stopper (STI-13210NW).....	121.47	20.32
28 46 13 31-2190 EA Surface Mounted, No Label, Yellow, Universal Stopper (STI-13210NY)	121.47	20.32
28 46 13 31-2191 EA Surface Mounted, Fire Label, Red, Universal Stopper With Horn (STI-13220FR)	160.36	20.32
28 46 13 31-2192 EA Surface Mounted, No Label, Yellow, Universal Stopper With Horn (STI-13220NY)	169.10	20.32
28 46 13 31-2193 EA Surface Mounted, Fire Label, Red, Universal Stopper With Horn And Relay (STI-13230FR).....	199.69	20.32
28 46 13 31-2194 EA Stopper II, Weather Gasket (STI-3002).....	50.21	20.32
28 46 13 31-2195 EA Large, Break Glass Stopper (STI-4100).....	120.60	20.32
28 46 13 31-2196 EA Stopper "G" Standard Break Glass Cover (STI-6100)	116.67	20.32

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2197 EA Clear, Polycarbonate Enclosure With Deep Back Box And Exterior Key Lock (STI-7510A).....	112.95	20.32
28 46 13 31-2198 EA Polycarbonate Multi-Purpose Enclosure With Backplate And Key Lock (STI-7530).....	288.82	20.32
28 46 13 31-2199 EA Heated, Metal, Protective Cabinet (STI-7560AH).....	3,938.14	20.32
28 46 13 31-2200 EA Stainless Steel Guard (STI-9604SS).....	83.46	20.32
28 46 13 31-2201 EA 5-3/4" Width x 4-1/2" Depth, Motion Detector Guard (STI-9621).....	75.81	20.32
28 46 13 31-2202 System Sensor Fire Alarm (28 46 13 31)		
28 46 13 31-2203 Smoke Detectors (28 46 13 31-2202)		
28 46 13 31-2204 EA Beam Detector Heater Kit (System Sensor BEAMHK).....	64.46	6.77
28 46 13 31-2205 EA Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR).....	268.70	6.77
Note: Four used with long range kit.		
28 46 13 31-2206 EA Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK).....	334.56	67.74
28 46 13 31-2207 EA Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK).....	247.03	67.74
28 46 13 31-2208 EA Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK).....	202.41	67.74
28 46 13 31-2209 EA Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B).....	204.52	50.80
28 46 13 31-2210 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B).....	184.85	50.80
28 46 13 31-2211 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B).....	215.61	50.80
28 46 13 31-2212 EA Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B).....	208.09	50.80
28 46 13 31-2213 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B).....	196.29	50.80
28 46 13 31-2214 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B).....	221.15	50.80
28 46 13 31-2215 EA Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B).....	286.15	50.80
28 46 13 31-2216 EA Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151).....	166.85	33.87
28 46 13 31-2217 EA Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T).....	190.77	33.87
Note: Requires B100 series base.		
28 46 13 31-2218 EA Heavy-Duty Multi-Mount Kit (System Sensor 6500-MMK).....	310.75	16.93
28 46 13 31-2219 EA Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy-Duty Multi-Mount Kit (System Sensor 6500-SMK).....	107.38	16.93
28 46 13 31-2220 EA Four Wire, Low Profile, Plug In Detector (System Sensor 2D51).....	209.43	50.80
28 46 13 31-2221 Duct Smoke Detectors (28 46 13 31-2202)		
28 46 13 31-2222 EA Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2).....	401.38	50.80
28 46 13 31-2223 EA Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120).....	397.94	50.80
28 46 13 31-2224 EA Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W).....	521.32	57.58
28 46 13 31-2225 EA Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S).....	262.25	33.87
28 46 13 31-2226 EA Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL).....	71.23	10.16
28 46 13 31-2227 EA Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR).....	224.67	27.10
28 46 13 31-2228 EA Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW).....	364.07	33.87
28 46 13 31-2229 EA 1' Steel Sampling Tube (System Sensor DST1).....	41.86	13.55
28 46 13 31-2230 EA 1.5' Steel Sampling Tube (System Sensor DST1.5).....	45.75	13.55
28 46 13 31-2231 EA 3' Steel Sampling Tube (System Sensor DST3).....	51.64	13.55
28 46 13 31-2232 EA 5' Steel Sampling Tube (System Sensor DST5).....	66.33	16.93
28 46 13 31-2233 EA 10' Steel Sampling Tube (System Sensor DST10).....	97.73	20.32
28 46 13 31-2234 EA 1' Steel, Exhaust Tube Duct (System Sensor ETX).....	47.35	13.55
28 46 13 31-2235 EA Remote Test Station For Duct Smoke Detector (System Sensor RTS151).....	107.10	16.93
28 46 13 31-2236 EA Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2).....	229.40	
28 46 13 31-2237 EA Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B).....	246.56	
28 46 13 31-2238 Heat Detectors (28 46 13 31-2202)		
28 46 13 31-2239 EA Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P).....	134.86	50.80
28 46 13 31-2240 EA Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602).....	128.73	50.80
28 46 13 31-2241 EA Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621).....	149.09	50.80
28 46 13 31-2242 EA Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622).....	149.09	50.80
28 46 13 31-2243 EA Dual Circuit, 135 Degree F, Fixed Temperature Heat Detector (System Sensor 5623).....	162.90	50.80
28 46 13 31-2244 EA Dual Circuit, 194 Degree F, Fixed Temperature Heat Detector (System Sensor 5624).....	162.90	50.80
28 46 13 31-2245 Horns (28 46 13 31-2202)		
28 46 13 31-2246 EA Red, Mini Horn (System Sensor MHR).....	137.94	50.80
28 46 13 31-2247 EA White, Mini Horn (System Sensor MHW).....	137.94	50.80
28 46 13 31-2248 EA White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HWL).....	139.71	50.80
28 46 13 31-2249 EA Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R).....	174.99	57.58
28 46 13 31-2250 EA Red, Indoor, Wall Mounted, Horn (System Sensor HRL).....	139.71	50.80
28 46 13 31-2251 EA Red, Outdoor, Wall Mounted, Horn (System Sensor HRK).....	204.52	50.80
28 46 13 31-2252 EA White, Indoor, Wall Mounted, Compact Horn (System Sensor HGRL).....	140.28	50.80
28 46 13 31-2253 EA Red, Indoor, Wall Mounted, Compact Horn (System Sensor HGWL).....	140.28	50.80
28 46 13 31-2254 Wall Mounted Horns/Strobes (28 46 13 31-2202)		
28 46 13 31-2255 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL).....	187.42	50.80
28 46 13 31-2256 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH).....	241.73	50.80
28 46 13 31-2257 EA Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	275.33	57.58

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2258	EA	Plain, Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	269.04	57.58
28 46 13 31-2259	EA	Outdoor Back Box, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	281.34	57.58
28 46 13 31-2260	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	274.47	57.58
28 46 13 31-2261	EA	Plain, Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P).....	261.03	57.58
28 46 13 31-2262	EA	Outdoor, Red, , Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	227.18	50.80
28 46 13 31-2263	EA	Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL-P).....	183.42	50.80
28 46 13 31-2264	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL).....	187.42	50.80
28 46 13 31-2265	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	243.43	50.80
28 46 13 31-2266	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK).....	266.75	57.58
28 46 13 31-2267	EA	Plain, Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P).....	269.04	57.58
28 46 13 31-2268	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P).....	241.73	50.80
28 46 13 31-2269	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK).....	283.05	57.58
28 46 13 31-2270	EA	Plain, Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P).....	261.03	57.58
28 46 13 31-2271	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P).....	182.56	50.80
28 46 13 31-2272	EA	Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RL).....	223.46	50.80
28 46 13 31-2273	EA	Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH).....	261.52	50.80
28 46 13 31-2274	EA	Outdoor Back Box, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK).....	301.98	57.58
28 46 13 31-2275	EA	Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R).....	255.31	57.58
28 46 13 31-2276	EA	White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WL).....	223.46	50.80
28 46 13 31-2277	EA	Outdoor Back Box, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4WHK).....	306.53	57.58
28 46 13 31-2278	EA	Outdoor Back Box, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK).....	269.61	57.58
28 46 13 31-2279	EA	Red, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2RL-LF).....	273.23	50.80
28 46 13 31-2280	EA	White, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2WL-LF).....	273.23	50.80
28 46 13 31-2281	EA	Red, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GRL).....	186.85	50.80
28 46 13 31-2282	EA	White, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GWL).....	186.85	50.80
28 46 13 31-2283 Ceiling Mounted Horns/Strobes (28 46 13 31-2202)				
28 46 13 31-2284	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RL).....	190.28	50.80
28 46 13 31-2285	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH).....	245.14	50.80
28 46 13 31-2286	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK).....	266.75	57.58
28 46 13 31-2287	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK).....	259.31	57.58
28 46 13 31-2288	EA	Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P).....	233.18	50.80
28 46 13 31-2289	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WL).....	190.28	50.80
28 46 13 31-2290	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH).....	245.14	50.80
28 46 13 31-2291	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK).....	266.75	57.58
28 46 13 31-2292	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P).....	245.14	50.80
28 46 13 31-2293	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK).....	259.31	57.58
28 46 13 31-2294	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P).....	231.47	50.80
28 46 13 31-2295	EA	Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4RL).....	224.89	50.80
28 46 13 31-2296	EA	Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH).....	261.52	50.80
28 46 13 31-2297	EA	White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4WL).....	224.89	50.80
28 46 13 31-2298 Wall Mounted Strobes (28 46 13 31-2202)				

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2299 EA White Strobe Expander Plate Back Box Skirt (System Sensor SEP-BBSW).....	85.24	16.93
28 46 13 31-2300 EA White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW).....	162.30	16.93
28 46 13 31-2301 EA Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL).....	169.97	50.80
28 46 13 31-2302 EA Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH).....	220.36	50.80
28 46 13 31-2303 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK).....	268.73	57.58
28 46 13 31-2304 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK).....	265.56	57.58
28 46 13 31-2305 EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P).....	240.43	57.58
28 46 13 31-2306 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R).....	212.40	57.58
28 46 13 31-2307 EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL-P).....	168.54	50.80
28 46 13 31-2308 EA White, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL).....	169.40	50.80
28 46 13 31-2309 EA White, Amber Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-ALERT).....	182.84	50.80
28 46 13 31-2310 EA White, Clear Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-CLR-ALERT).....	219.51	50.80
28 46 13 31-2311 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH).....	229.76	50.80
28 46 13 31-2312 EA White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT).....	228.06	50.80
28 46 13 31-2313 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P).....	228.06	50.80
28 46 13 31-2314 EA Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P).....	243.87	57.58
28 46 13 31-2315 EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK).....	241.29	57.58
28 46 13 31-2316 EA White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P).....	243.29	57.58
28 46 13 31-2317 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R).....	246.72	57.58
28 46 13 31-2318 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK).....	239.00	57.58
28 46 13 31-2319 EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P).....	240.15	57.58
28 46 13 31-2320 EA White, Plain, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-P).....	168.26	50.80
28 46 13 31-2321 EA Amber, Wall Strobe Lens Attachment (System Sensor LENS-A).....	29.28	6.77
28 46 13 31-2322 EA Blue, Wall Strobe Lens Attachment (System Sensor LENS-B).....	29.28	6.77
28 46 13 31-2323 EA Green, Wall Strobe Lens Attachment (System Sensor LENS-G).....	29.28	6.77
28 46 13 31-2324 EA Red, Wall Strobe Lens Attachment (System Sensor LENS-R).....	29.28	6.77
28 46 13 31-2325 EA Red, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGRL).....	172.26	50.80
28 46 13 31-2326 EA White, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGWL).....	169.11	50.80
28 46 13 31-2327 EA L-Series, Amber, Wall Strobe Lens Attachment (System Sensor LENS-A2, AC2).....	29.28	6.77
28 46 13 31-2328 EA L-Series, Blue, Wall Strobe Lens Attachment (System Sensor LENS-B2, BC2).....	29.28	6.77
28 46 13 31-2329 EA L-Series, Green, Wall Strobe Lens Attachment (System Sensor LENS-G2, GC2).....	29.28	6.77
28 46 13 31-2330 EA L-Series, Red, Wall Strobe Lens Attachment (System Sensor LENS-R2, RC2).....	29.28	6.77
28 46 13 31-2331 EA Red, 8 Multi-tone, 12 VDC, 1575CD, Wall Mounted Strobe (Wheelock MT-121575W-FR).....	248.12	50.80
28 46 13 31-2332 EA White, 8 Multi-tone, 12 VDC, 1575CD, No Lettering, Wall Mounted Strobe (Wheelock MT-121575W-NW).....	248.12	50.80
28 46 13 31-2333 EA L-Series, White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-CLR-ALERT).....	245.01	57.58
28 46 13 31-2334 Ceiling Mounted Strobes (28 46 13 31-2202)		
28 46 13 31-2335 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRL).....	173.12	50.80
28 46 13 31-2336 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH).....	223.52	50.80
28 46 13 31-2337 EA Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK).....	268.73	57.58
28 46 13 31-2338 EA Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK).....	268.73	57.58
28 46 13 31-2339 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWL).....	173.12	50.80
28 46 13 31-2340 EA Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCWL-CLR-ALERT).....	184.56	50.80
28 46 13 31-2341 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH).....	233.18	50.80
28 46 13 31-2342 EA Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK).....	241.29	57.58
28 46 13 31-2343 EA Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK).....	239.00	57.58
28 46 13 31-2344 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P).....	207.55	50.80
28 46 13 31-2345 EA Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC).....	29.28	6.77
28 46 13 31-2346 EA Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC).....	29.28	6.77
28 46 13 31-2347 EA Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC).....	29.28	6.77
28 46 13 31-2348 EA Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC).....	29.28	6.77

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2349 Wall Mounted Speakers (28 46 13 31-2202)				
28 46 13 31-2350	EA	24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V)	434.56	50.80
28 46 13 31-2351	EA	Red, Wall Mounted Speaker (System Sensor SPRL)	146.80	50.80
28 46 13 31-2352	EA	Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK)	230.33	50.80
28 46 13 31-2353	EA	Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R)	194.10	57.58
28 46 13 31-2354	EA	Red, High dB, Wall Mounted Speaker (System Sensor SPRV)	180.77	50.80
28 46 13 31-2355	EA	White, Wall Mounted Speaker (System Sensor SPWL)	146.80	50.80
28 46 13 31-2356	EA	White, Outdoor, Wall Mounted Speaker (System Sensor SPWK)	242.72	57.58
28 46 13 31-2357	EA	White, High dB, Wall Mounted Speaker (System Sensor SPWV)	164.42	50.80
28 46 13 31-2358 Ceiling Mounted Speakers (28 46 13 31-2202)				
28 46 13 31-2359	EA	Red, Ceiling Mounted Speaker (System Sensor SPCRL)	143.66	50.80
28 46 13 31-2360	EA	Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK)	244.90	50.80
28 46 13 31-2361	EA	Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRV)	180.77	50.80
28 46 13 31-2362	EA	White, Ceiling Mounted Speaker (System Sensor SPCWL)	146.23	50.80
28 46 13 31-2363	EA	White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV)	187.05	50.80
28 46 13 31-2364	EA	White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK)	243.87	57.58
28 46 13 31-2365 Wall Mounted Speakers/Strobes (28 46 13 31-2202)				
28 46 13 31-2366	EA	White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSWL)	160.30	16.93
28 46 13 31-2367	EA	White Speaker Strobe Expander Plate Back Box Skirt (System Sensor SPSEP-BBSWL)	81.81	16.93
28 46 13 31-2368	EA	Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL)	233.19	50.80
28 46 13 31-2369	EA	Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH)	280.52	50.80
28 46 13 31-2370	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK)	374.81	57.58
28 46 13 31-2371	EA	Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P)	331.97	57.58
28 46 13 31-2372	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R)	284.48	57.58
28 46 13 31-2373	EA	Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL-P)	230.61	50.80
28 46 13 31-2374	EA	Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV)	271.02	50.80
28 46 13 31-2375	EA	White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-ALERT)	234.33	50.80
28 46 13 31-2376	EA	White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT)	335.97	57.58
28 46 13 31-2377	EA	White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL)	233.19	50.80
28 46 13 31-2378	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH)	294.70	50.80
28 46 13 31-2379	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P)	294.70	50.80
28 46 13 31-2380	EA	White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK)	347.41	57.58
28 46 13 31-2381	EA	White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P)	330.82	57.58
28 46 13 31-2382	EA	White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-P)	229.47	50.80
28 46 13 31-2383	EA	White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV)	284.44	50.80
28 46 13 31-2384	EA	White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P)	284.44	50.80
28 46 13 31-2385 Ceiling Mounted Speakers/Strobes (28 46 13 31-2202)				
28 46 13 31-2386	EA	Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCL)	217.74	50.80
28 46 13 31-2387	EA	Red, Selectable Candela (135, 150, 177, 185 Candela), High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH)	283.69	50.80
28 46 13 31-2388	EA	Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRV)	271.02	50.80
28 46 13 31-2389	EA	White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCL)	217.74	50.80
28 46 13 31-2390	EA	White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCL-CLR-ALERT)	232.04	50.80
28 46 13 31-2391	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCLH)	294.70	50.80
28 46 13 31-2392	EA	White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCLH-P)	349.13	57.58
28 46 13 31-2393	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCLH-P)	294.70	50.80
28 46 13 31-2394	EA	White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCLH-CLR-ALERT)	336.54	57.58



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2395	EA		White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK)	347.41	57.58
28 46 13 31-2396	EA		White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-P)	217.74	50.80
28 46 13 31-2397	EA		White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV)	284.44	50.80
28 46 13 31-2398	EA		White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH)	294.70	50.80
28 46 13 31-2399	EA		White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P)	284.44	50.80
28 46 13 31-2400	EA		High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH)	294.45	50.80
28 46 13 31-2401 Electric Alarm Bells (28 46 13 31-2202)					
28 46 13 31-2402	EA		6" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-6)	180.27	50.80
28 46 13 31-2403	EA		8" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-8)	194.29	50.80
28 46 13 31-2404	EA		10" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-10)	209.73	50.80
28 46 13 31-2405	EA		6" 120 Volt AC Alarm Bell (System Sensor SSV120-6)	199.01	51.48
28 46 13 31-2406	EA		8" 120 Volt AC Alarm Bell (System Sensor SSV120-8)	201.26	51.48
28 46 13 31-2407	EA		10" 120 Volt AC Alarm Bell (System Sensor SSV120-10)	215.50	51.48
28 46 13 31-2408 Device Bases (28 46 13 31-2202)					
28 46 13 31-2409	EA		High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S)	137.13	16.93
28 46 13 31-2410	EA		Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR)	132.84	16.93
28 46 13 31-2411	EA		Intelligent Isolator Base (System Sensor B224BI)	109.67	16.93
28 46 13 31-2412	EA		Intelligent Relay Base (System Sensor B224RB)	110.81	16.93
28 46 13 31-2413	EA		Flangeless, Intelligent Detector Base (System Sensor B501)	69.57	16.93
28 46 13 31-2414	EA		High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, Ivory (System Sensor B200S-IV)	137.13	16.93
28 46 13 31-2415	EA		Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-IV)	132.84	16.93
28 46 13 31-2416	EA		Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR-LF)	197.48	16.93
28 46 13 31-2417	EA		Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-LF-IV)	197.48	16.93
28 46 13 31-2418	EA		Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-LF-WH)	191.19	16.93
28 46 13 31-2419	EA		Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-WH)	153.13	16.93
28 46 13 31-2420	EA		High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, White (System Sensor B200S-WH)	130.26	16.93
28 46 13 31-2421	EA		Intelligent Isolator Base, Ivory (System Sensor B224BI-IV)	109.67	16.93
28 46 13 31-2422	EA		Intelligent Isolator Base, White (System Sensor B224BI-WH)	102.81	16.93
28 46 13 31-2423	EA		Intelligent Relay Base, Ivory (System Sensor B224RB-IV)	110.81	16.93
28 46 13 31-2424	EA		Intelligent Relay Base, White (System Sensor B224RB-WH)	104.24	16.93
28 46 13 31-2425	EA		Flangeless, Intelligent Detector Base, Black (System Sensor B501-BL)	69.57	16.93
28 46 13 31-2426	EA		Flangeless, Intelligent Detector Base, Ivory (System Sensor B501-IV)	69.57	16.93
28 46 13 31-2427	EA		Flangeless, Intelligent Detector Base, White (System Sensor B501-WHITE)	62.13	16.93
28 46 13 31-2428	EA		Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base (System Sensor B200S-LF)	200.92	16.93
28 46 13 31-2429	EA		Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, Ivory (System Sensor B200S-LF-IV)	200.92	16.93
28 46 13 31-2430	EA		Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, White (System Sensor B200S-LF-WH)	193.48	16.93
28 46 13 31-2431	EA		6" Intelligent Flanged Mounting Base (System Sensor B300-6)	55.32	16.93
28 46 13 31-2432	EA		6" Intelligent Flanged Mounting Base, Ivory (System Sensor B300-6-IV)	62.47	16.93
28 46 13 31-2433	EA		Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP)	62.06	16.93
28 46 13 31-2434	EA		Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP)	123.51	20.32
28 46 13 31-2435 Boxes, Plates And Decals (28 46 13 31-2202)					
28 46 13 31-2436	EA		120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K)	62.70	16.93
28 46 13 31-2437	EA		Red, Wall Mounted, Metal, Weatherproof Back Box (System Sensor MWBB)	93.71	16.93
28 46 13 31-2438	EA		White, Ceiling Mounted, Metal, Weatherproof Back Box (System Sensor MWBBCW)	101.95	16.93
28 46 13 31-2439	EA		White, Wall Mounted, Metal, Weatherproof Back Box (System Sensor MWBBW)	93.71	16.93
28 46 13 31-2440	EA		Red Retrofit Plate (System Sensor RFP)	43.43	10.16
28 46 13 31-2441	EA		White Retrofit Plate (System Sensor RFPW)	43.09	10.16
28 46 13 31-2442	EA		Red, Wall Mounted, Weatherproof Back Box (System Sensor SA-WBB)	79.41	16.93
28 46 13 31-2443	EA		Red, Ceiling Mounted, Weatherproof Back Box (System Sensor SA-WBBC)	89.25	16.93
28 46 13 31-2444	EA		Red, Ceiling Mounted, Surface Mounted, Back Box (System Sensor SBBCL)	63.39	16.93
28 46 13 31-2445	EA		White, Ceiling Mounted, Surface Mounted, Back Box (System Sensor SBBCLW)	63.39	16.93
28 46 13 31-2446	EA		Red, Wall Mounted, Surface Mounted, Back Box (System Sensor SBBRL)	55.04	16.93
28 46 13 31-2447	EA		Red, Wall Mounted, Surface Mounted, Back Box For Speaker (System Sensor SBBSPRL)	61.33	16.93
28 46 13 31-2448	EA		White, Wall Mounted, Surface Mounted, Back Box For Speaker (System Sensor SBBSPWL)	61.33	16.93
28 46 13 31-2449	EA		White, Wall Mounted, Surface Mounted, Back Box (System Sensor SBBWL)	55.04	16.93
28 46 13 31-2450	EA		Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500)	61.21	16.93
28 46 13 31-2451	EA		Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600)	55.32	16.93
28 46 13 31-2452	EA		Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS)	20.09	6.77
28 46 13 31-2453	EA		Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R)	29.51	
28 46 13 31-2454	EA		Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC)	40.96	
28 46 13 31-2455	EA		White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W)	29.51	
28 46 13 31-2456	EA		White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC)	40.96	
28 46 13 31-2457	EA		Red, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2)	22.18	6.77

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2458 EA White, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2W)	22.18	6.77
28 46 13 31-2459 EA Red, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2)	22.18	6.77
28 46 13 31-2460 EA White, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2W)	22.18	6.77
28 46 13 31-2461 EA Red, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGRL)	55.04	16.93
28 46 13 31-2462 EA White, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGWL)	55.04	16.93
28 46 13 31-2463 EA Red, AGENT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AG)	26.71	6.77
28 46 13 31-2464 EA Red, ALERT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AL)	26.71	6.77
28 46 13 31-2465 EA Red, EVAC Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-EV)	26.71	6.77
28 46 13 31-2466 EA Red, FIRE Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-F)	26.71	6.77
28 46 13 31-2467 EA White, AGENT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AG)	26.71	6.77
28 46 13 31-2468 EA White, ALERT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AL)	26.71	6.77
28 46 13 31-2469 EA White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-EV)	26.71	6.77
28 46 13 31-2470 EA White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-F)	26.71	6.77
28 46 13 31-2471 EA Red, Plain, L-Series Wall Mounted Bezel (System Sensor BZGR-P)	26.71	6.77
28 46 13 31-2472 EA White, Plain, L-Series Wall Mounted Bezel (System Sensor BZGW-P)	26.71	6.77
28 46 13 31-2473 EA Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG)	26.71	6.77
28 46 13 31-2474 EA Red, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AL)	26.71	6.77
28 46 13 31-2475 EA Red, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AG)	29.11	6.77
28 46 13 31-2476 EA Red, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AL)	29.11	6.77
28 46 13 31-2477 EA Red, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-EV)	29.11	6.77
28 46 13 31-2478 EA Red, FIRE Marking, L-Series Ceiling Mounted Bezel, Pack Of 5 (System Sensor BZRC-F)	29.11	6.77
28 46 13 31-2479 EA Red, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-P)	29.11	6.77
28 46 13 31-2480 EA Red, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZR-EV)	26.71	6.77
28 46 13 31-2481 EA Red, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZR-F)	26.71	6.77
28 46 13 31-2482 EA Red, PLAIN Marking, L-Series Wall Mounted Bezel (System Sensor BZR-P)	26.71	6.77
28 46 13 31-2483 EA Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG)	26.71	6.77
28 46 13 31-2484 EA White, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AG)	26.71	6.77
28 46 13 31-2485 EA White, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AL)	26.71	6.77
28 46 13 31-2486 EA White, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AG)	29.11	6.77
28 46 13 31-2487 EA White, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AL)	29.11	6.77
28 46 13 31-2488 EA White, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-EV)	29.11	6.77
28 46 13 31-2489 EA White, FIRE Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-F)	29.11	6.77
28 46 13 31-2490 EA White, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-P)	29.11	6.77
28 46 13 31-2491 EA White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-EV)	26.71	6.77
28 46 13 31-2492 EA White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-F)	26.71	6.77
28 46 13 31-2493 EA Replacement Dust Cover For Low Profile Detectors (System Sensor C58-227-01)	5.09	
28 46 13 31-2494 EA Control Module Barrier (System Sensor CB500)	40.00	10.16
28 46 13 31-2495 EA White Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300)	36.91	10.16
28 46 13 31-2496 EA Black Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300-BL)	44.29	10.16
28 46 13 31-2497 EA PTIR Color Kit, White (System Sensor CK-300-IR)	162.19	10.16
Note: Includes cover and trim ring		
28 46 13 31-2498 EA PTIR Color Kit, Black (System Sensor CK-300-IR-BL)	234.85	10.16
Note: Includes cover and trim ring		
28 46 13 31-2499 EA PTIR Color Kit, Ivory (System Sensor CK-300-IR-IV)	234.85	10.16
Note: Includes cover and trim ring		
28 46 13 31-2500 EA Accessory Flange Ring For B210LP Base (System Sensor F210)	30.45	10.16
Note: Includes cover and trim ring		
28 46 13 31-2501 EA Black Faceplate (System Sensor FP-BLACK-BP)	29.62	10.16
28 46 13 31-2502 EA White Faceplate, 2 In/2 Out (System Sensor FP-WHITE-2-BP)	30.05	10.16
28 46 13 31-2503 EA White Faceplate (System Sensor FP-WHITE-BP)	28.64	10.16
28 46 13 31-2504 EA White, Back Box (System Sensor SMB500-WH)	52.35	16.93
28 46 13 31-2505 EA Accessory Flange Ring For B210LP Base, White (System Sensor TR300)	20.70	6.77
28 46 13 31-2506 EA Accessory Flange Ring For B210LP Base, Ivory (System Sensor TR300-IV)	29.05	6.77
28 46 13 31-2507 EA White Faceplate Swift (System Sensor FP-WHITE-SWIFT-BP)	31.39	10.16
28 46 13 31-2508 EA Red, ALERT Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-AL)	26.71	6.77
28 46 13 31-2509 EA Red, AGENT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AG)	29.11	6.77
28 46 13 31-2510 EA Red, ALERT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AL)	29.11	6.77
28 46 13 31-2511 EA Red, EVAC Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-EV)	29.11	6.77
28 46 13 31-2512 EA Red, FIRE Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-F)	29.11	6.77
28 46 13 31-2513 EA Red, Plain, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-P)	29.11	6.77
28 46 13 31-2514 EA Red, EVAC Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-EV)	26.71	6.77
28 46 13 31-2515 EA Red, FIRE Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-F)	26.71	6.77
28 46 13 31-2516 EA Red, Plain, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-P)	26.71	6.77
28 46 13 31-2517 EA L Series, 120 VAC Adapter Mounting Plate (System Sensor MP120KL)	79.86	16.93
28 46 13 31-2518 EA White, Amber Lens, Universal Expander Plate (System Sensor SEP-SPSWL-P)	155.44	16.93

28 46 13 31-2519 Chimes (28 46 13 31-2202)

28 46 13 31-2520 EA Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHRL)	197.04	50.80
28 46 13 31-2521 EA White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHWL)	174.26	50.80

28 46 13 31-2522 Chime/Strobes (28 46 13 31-2202)

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2523 EA Red, 15, 15/75, 30, 75 , 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSRL).....	250.35	50.80
28 46 13 31-2524 EA White, 15, 15/75, 30, 75 , 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSWL).....	250.35	50.80
28 46 13 31-2525 EA L-Series, Red, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHSRL).....	252.07	50.80
28 46 13 31-2526 EA L-Series, White, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHSCWL).....	252.07	50.80
28 46 13 31-2527 Carbon Monoxide Detectors (28 46 13 31-2202)		
28 46 13 31-2528 EA Conventional Carbon Monoxide Detector (System Sensor CO1224).....	335.76	67.74
28 46 13 31-2529 EA Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR).....	248.06	50.80
28 46 13 31-2530 EA CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE).....	20.46	6.77
28 46 13 31-2531 EA Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan (System Sensor FCO-951).....	368.20	50.80
28 46 13 31-2532 EA 12/24 VDC, Conventional Carbon Monoxide Detector With Sounder And Trouble Relay With Test Function, UL2075 Listed (System Sensor CO1224T).....	281.93	67.74
28 46 13 31-2533 EA Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan, Ivory (System Sensor FCO-951-IV).....	380.78	50.80
28 46 13 31-2534 Switches (28 46 13 31-2202)		
28 46 13 31-2535 EA SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1).....	223.52	27.10
28 46 13 31-2536 EA Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2).....	249.27	27.10
28 46 13 31-2537 EA SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1).....	223.52	27.10
28 46 13 31-2538 EA Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2).....	249.27	27.10
28 46 13 31-2539 EA Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2).....	232.68	27.10
28 46 13 31-2540 EA Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2).....	217.80	27.10
28 46 13 31-2541 Low Frequency Sounders (28 46 13 31-2202)		
28 46 13 31-2542 EA Red, Low Frequency Sounder (System Sensor HR-LF).....	234.89	50.80
28 46 13 31-2543 EA White, Low Frequency Sounder (System Sensor HW-LF).....	234.89	50.80
28 46 13 31-2544 EA Red, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCRL-LF).....	206.01	50.80
28 46 13 31-2545 EA White, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCWL-LF).....	206.01	50.80
28 46 13 31-2546 EA Red, Wall Mounted, Low-frequency Compact Sounder (System Sensor HGRL-LF).....	204.58	50.80
28 46 13 31-2547 EA White, Wall Mounted, Low-frequency Compact Sounder (HGWL-LF).....	204.58	50.80
28 46 13 31-2548 Sync Modules (28 46 13 31-2202)		
28 46 13 31-2549 EA Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R).....	179.29	33.87
28 46 13 31-2550 EA White, 12/24 Volt DC, Sync Module (System Sensor MDL3W).....	176.43	33.87
28 46 13 31-2551 Relays (28 46 13 31-2202)		
28 46 13 31-2552 EA Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E).....	102.47	27.10
28 46 13 31-2553 EA SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T).....	66.02	16.93
28 46 13 31-2554 EA 4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E).....	188.33	16.93
28 46 13 31-2555 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T).....	139.13	16.93
28 46 13 31-2556 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E).....	110.14	27.10
28 46 13 31-2557 EA DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T).....	68.08	16.93
28 46 13 31-2558 EA 4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E).....	211.79	16.93
28 46 13 31-2559 EA 4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T).....	158.87	16.93
28 46 13 31-2560 EA 18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1).....	57.67	16.93
28 46 13 31-2561 EA 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2).....	57.67	16.93
28 46 13 31-2562 EA Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3).....	57.67	16.93
28 46 13 31-2563 Remote Annunciator (28 46 13 31-2202)		
28 46 13 31-2564 EA Remote Annunciator (System Sensor RA100Z).....	137.65	50.80
28 46 13 31-2565 EA Remote LED Annunciator (System Sensor RA100ZA).....	134.74	50.80
28 46 13 31-2566 EA Remote Annunciator With Piezo Alarm (System Sensor APA151).....	167.14	50.80
28 46 13 31-2567 Remote Test Station (28 46 13 31-2202)		
28 46 13 31-2568 EA Remote Test Station With Key (System Sensor RTS151KEY).....	212.02	50.80
28 46 13 31-2569 Fire Alarm Digital Cellular Communicator (28 46 13 31)		
28 46 13 31-2570 EA Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS).....	805.80	67.74
28 46 13 31-2571 Wheelock Fire Alarm (28 46 13 31)		
28 46 13 31-2572 Ceiling Mounted Chimes/Strobes (28 46 13 31-2571)		
28 46 13 31-2573 EA White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW).....	276.19	50.80

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2574		Wall Mounted Chimes/Strobes (28 46 13 31-2571)		
28 46 13 31-2575	EA	Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FR)	276.19	50.80
28 46 13 31-2576	EA	White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FW)	276.19	50.80
28 46 13 31-2577		Ceiling Mounted Horns/Strobes (28 46 13 31-2571)		
28 46 13 31-2578	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSR)	181.88	50.80
28 46 13 31-2579	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC)	206.30	50.80
28 46 13 31-2580		Wall Mounted Horns/Strobes (28 46 13 31-2571)		
28 46 13 31-2581	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR)	185.61	50.80
28 46 13 31-2582	EA	Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4-241575 Watt-FR)	296.40	50.80
28 46 13 31-2583	EA	Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR)	246.35	50.80
28 46 13 31-2584	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW)	246.35	50.80
28 46 13 31-2585	EA	Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt-FR)	281.03	50.80
28 46 13 31-2586	EA	Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR)	206.89	50.80
28 46 13 31-2587	EA	Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-VH-VFR)	204.69	50.80
28 46 13 31-2588	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR)	226.13	57.58
28 46 13 31-2589	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR)	184.74	50.80
28 46 13 31-2590	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW)	184.74	50.80
28 46 13 31-2591	EA	White, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FW)	203.82	50.80
28 46 13 31-2592	EA	Red, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR)	246.35	50.80
28 46 13 31-2593	EA	White, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW)	246.35	50.80
28 46 13 31-2594		Ceiling Mounted Strobes (28 46 13 31-2571)		
28 46 13 31-2595	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR)	173.99	50.80
28 46 13 31-2596	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW)	173.99	50.80
28 46 13 31-2597	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC)	187.42	50.80
28 46 13 31-2598	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC)	167.41	50.80
28 46 13 31-2599	EA	White, 24 Volt DC, Amber Lens, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, No Lettering (Wheelock RSSA-24MCC-NW)	185.39	50.80
28 46 13 31-2600	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, Red ALERT Lettering (Wheelock RSSA-24MCC-ALW)	186.93	50.80
28 46 13 31-2601	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe With Fire Lettering (Wheelock RSS-24MCC-FW)	187.59	50.80
28 46 13 31-2602	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Weatherproof Strobe With Fire Lettering (Wheelock RSSWP-2475C-FR)	196.29	50.80
28 46 13 31-2603		Wall Mounted Strobes (28 46 13 31-2571)		
28 46 13 31-2604	EA	Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR)	259.96	50.80
28 46 13 31-2605	EA	Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR)	210.40	50.80
28 46 13 31-2606	EA	Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR)	236.60	50.80
28 46 13 31-2607	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR)	172.23	50.80
28 46 13 31-2608	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW)	172.23	50.80
28 46 13 31-2609	EA	Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR)	183.64	50.80
28 46 13 31-2610	EA	Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR)	192.35	57.58
		Note: Requires WPSBB-R.		
28 46 13 31-2611	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR)	168.50	50.80
28 46 13 31-2612	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW)	168.50	50.80
28 46 13 31-2613	EA	Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCWH-NW)	198.99	50.80
28 46 13 31-2614	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCW-NW)	174.21	50.80
28 46 13 31-2615	EA	Weatherproof, White, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FW)	213.55	57.58
		Note: Requires WPSBB-R.		
28 46 13 31-2616	EA	Interior, White, 24 Volt DC, Multi-Candela 135/185, Weatherproof Wall Mounted Strobe (Wheelock RSSWP-24MCWH-FW)	210.02	50.80
28 46 13 31-2617		Ceiling Mounted Speakers/Strobes (28 46 13 31-2571)		
28 46 13 31-2618	EA	Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	210.40	50.80
28 46 13 31-2619	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW)	210.40	50.80
28 46 13 31-2620	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW)	210.40	50.80
28 46 13 31-2621	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	212.59	50.80
28 46 13 31-2622	EA	White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCCH-FW)	224.87	50.80
28 46 13 31-2623	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW)	241.98	50.80



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2624	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FR)	241.98	50.80
28 46 13 31-2625	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FR)	214.34	50.80
28 46 13 31-2626	EA	White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Square, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-NW)	234.90	50.80
28 46 13 31-2627	EA	Round, 2 Watt, 24 Volt DC, 15/30/75/95CD, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-NW)	248.63	50.80
28 46 13 31-2628	EA	White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Ceiling Mounted, Speaker/Strobe (Wheelock ET70WP-2475C-FW)	262.36	50.80
28 46 13 31-2629 Wall Mounted Speakers/Strobes (28 46 13 31-2571)				
28 46 13 31-2630	EA	Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR)	325.45	50.80
28 46 13 31-2631	EA	White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW)	325.45	50.80
28 46 13 31-2632	EA	Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCCH-FR)	224.87	50.80
28 46 13 31-2633	EA	White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCCH-FW)	224.87	50.80
28 46 13 31-2634	EA	Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR)	210.40	50.80
28 46 13 31-2635	EA	White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW)	206.89	50.80
28 46 13 31-2636	EA	Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR)	224.87	50.80
28 46 13 31-2637	EA	White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW)	224.87	50.80
28 46 13 31-2638	EA	Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR)	322.03	50.80
28 46 13 31-2639	EA	Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR)	212.59	50.80
28 46 13 31-2640	EA	White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW)	210.84	50.80
28 46 13 31-2641	EA	Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR)	314.35	50.80
28 46 13 31-2642	EA	White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW)	322.03	50.80
28 46 13 31-2643	EA	Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR)	241.98	50.80
28 46 13 31-2644	EA	White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW)	241.98	50.80
28 46 13 31-2645	EA	Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR)	350.10	57.58
Note: Requires weatherproof backbox (IOB).				
28 46 13 31-2646	EA	Interior, Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FR)	194.17	50.80
28 46 13 31-2647	EA	Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FW)	187.59	50.80
28 46 13 31-2648	EA	White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Round, Wall Mounted Speaker/Strobe (Wheelock E60-24MCW-FW)	248.63	50.80
28 46 13 31-2649	EA	Red, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR)	262.36	50.80
28 46 13 31-2650	EA	White, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW)	267.51	50.80
28 46 13 31-2651	EA	White, 8 Watt, 24 VDC, 15/30/75/110 Candela, No Lettering, Wall Mounted, Speaker/Strobe (Wheelock ET70-24MCW-NW)	276.09	50.80
28 46 13 31-2652	EA	Red, 8 Watts, Weatherproof, 185 Candela, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-24185W-FR)	282.39	50.80
28 46 13 31-2653	EA	Red, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FR)	278.38	50.80
Note: Requires IOB				
28 46 13 31-2654	EA	White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FW)	276.09	50.80
Note: Requires IOB				
28 46 13 31-2655 Electric Alarm Bells (28 46 13 31-2571)				
28 46 13 31-2656	EA	6" Diameter, 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R)	205.13	50.80
28 46 13 31-2657	EA	6" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R)	198.11	50.80
28 46 13 31-2658	EA	10" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R)	245.05	50.80
28 46 13 31-2659	EA	10" Diameter, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSX10-115-R)	1,866.26	57.58
28 46 13 31-2660	EA	10" Diameter, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSXG10-115-R)	3,010.27	57.58
28 46 13 31-2661	EA	10" Diameter, Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CVXG10-115-R)	3,489.87	57.58
28 46 13 31-2662	EA	6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R)	165.43	50.80
28 46 13 31-2663	EA	10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R)	220.60	50.80
28 46 13 31-2664	EA	6", ADA, 12 Volt DC, Red, Motor Bell (Wheelock MB-G6-12-R)	168.07	50.80
28 46 13 31-2665	EA	10", ADA, 12 Volt DC, Red, Indoor/Outdoor Motor Bell (Wheelock MB-G10-12-R)	218.60	50.80
28 46 13 31-2666 Horns (28 46 13 31-2571)				
28 46 13 31-2667	EA	Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non-Sync Horn (Wheelock AH-24WP-R)	169.96	50.80
28 46 13 31-2668	EA	Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR)	140.74	50.80
28 46 13 31-2669	EA	White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW)	140.74	50.80
28 46 13 31-2670	EA	Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNR)	141.70	50.80
28 46 13 31-2671	EA	White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNW)	141.70	50.80
28 46 13 31-2672	EA	Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R)	125.47	50.80
28 46 13 31-2673	EA	White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W)	125.47	50.80
28 46 13 31-2674	EA	Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R)	141.70	50.80
28 46 13 31-2675	EA	Red, 24 Volt DC, Four Wire, Wall Mounted Horn (Wheelock HS-24-R)	166.83	50.80
28 46 13 31-2676 Speakers (28 46 13 31-2571)				

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2677 EA Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-R).....	144.51	50.80
28 46 13 31-2678 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-W)	144.51	50.80
28 46 13 31-2679 EA Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-R).....	144.51	50.80
28 46 13 31-2680 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-W)	142.58	50.80
28 46 13 31-2681 EA Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-R).....	144.51	50.80
28 46 13 31-2682 EA White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-W).....	144.51	50.80
28 46 13 31-2683 EA Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-R).....	144.51	50.80
28 46 13 31-2684 EA White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-W).....	144.51	50.80
28 46 13 31-2685 EA Red, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-R).....	165.65	50.80
28 46 13 31-2686 EA White, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-W)	165.65	50.80
28 46 13 31-2687 EA White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watt Ceiling Mounted Speaker (Wheelock ET90-W)	167.41	50.80
28 46 13 31-2688 EA Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R).....	220.03	50.80
28 46 13 31-2689 EA Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R).....	200.01	50.80
28 46 13 31-2690 EA Grey, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15S).....	303.39	50.80
28 46 13 31-2691 EA Red, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15SR).....	303.39	50.80
28 46 13 31-2692 EA Red, 1/8 To 8 Watts, Square, Surface Mounted, Vandal Resistant Speaker (Wheelock ET-1010-R)	220.03	50.80
28 46 13 31-2693 EA White, 8 Watts, Wall/Ceiling Mounted, Vandal Resistant Speaker (Wheelock ET-1010-W)	222.32	50.80
28 46 13 31-2694 EA Red, 1/8 To 8 Watts, Square, Flush Mounted, Vandal Resistant Speaker (Wheelock ET-1080-R)	200.01	50.80
28 46 13 31-2695 EA White, 8", 25/70 Volt, 15/30/75/95 Candela, Round, Ceiling Mounted, Speaker (Wheelock S8-24MCC-FW)	290.97	50.80
28 46 13 31-2696 EA White, 8", 25/70 Volt, Round, Ceiling Mounted, Speaker (Wheelock S8-70/25)	213.74	50.80
28 46 13 31-2697 Sync Modules (28 46 13 31-2571)		
28 46 13 31-2698 EA 12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R)	201.02	33.87
28 46 13 31-2699 Boxes, Plates And Rings (28 46 13 31-2571)		
28 46 13 31-2700 EA 4" Square, Red, Surface Back Box (Wheelock BB-R)	43.48	16.93
28 46 13 31-2701 EA Standard 4" Square Box (Wheelock BB-STD)	42.79	16.93
28 46 13 31-2702 EA Black, Back Box For UZC-256 (Wheelock BB-UZC).....	252.52	33.87
28 46 13 31-2703 EA Red, Back Box For UZC-256 (Wheelock BB-UZC-R).....	252.52	33.87
28 46 13 31-2704 EA 9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP)	194.92	27.10
28 46 13 31-2705 EA Red, Extender Ring For E60 Series (Wheelock E60EXT-R).....	22.15	6.77
28 46 13 31-2706 EA White, Extender Ring For E60 Series (Wheelock E60EXT-W)	22.15	6.77
28 46 13 31-2707 EA Red, Surface Mounted Back Box For E50 Speakers (Wheelock E50SB-R).....	53.87	16.93
28 46 13 31-2708 EA White, Surface Mounted Back Box For E50 Speakers (Wheelock E50SB-W).....	51.07	16.93
28 46 13 31-2709 EA Red, Surface Mounted Back Box For E50 Speaker Strobe (Wheelock E50SSB-R)	53.87	16.93
28 46 13 31-2710 EA White, Surface Mounted Back Box For E50 Speaker Strobe (Wheelock E50SSB-W).....	53.87	16.93
28 46 13 31-2711 EA 4" Square Back Box (Wheelock DBB-R).....	45.27	16.93
28 46 13 31-2712 EA Red, Surface Back Box (Wheelock IOB-R).....	52.03	16.93
28 46 13 31-2713 EA White, Surface, Back Box (Wheelock IOB-W)	52.03	16.93
28 46 13 31-2714 EA White, Indoor, Surface Extender (Wheelock ISP2-W)	21.23	6.77
28 46 13 31-2715 EA Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R).....	28.07	6.77
28 46 13 31-2716 EA White, RS/RSS Strobe Trim Plate (Wheelock NATP-W)	28.07	6.77
28 46 13 31-2717 EA Red Retrofit Plate (Wheelock RP-R).....	24.95	6.77
28 46 13 31-2718 EA 4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4)	42.50	6.77
28 46 13 31-2719 EA Red, Surface Mounted, Back Box For Chimes, Speakers (Wheelock SBB-R)	54.31	16.93
28 46 13 31-2720 EA White, Surface Mounted, Back Box For Chimes, Speaker (Wheelock SBB-W).....	54.93	16.93
28 46 13 31-2721 EA Red, Surface Mounted, Back Box For With RSSP (Wheelock SBL2-R)	58.17	16.93
28 46 13 31-2722 EA Red, Semi-Flush Plate (Wheelock SFB-R)	29.36	6.77
28 46 13 31-2723 EA White, Semi-Flush Plate (Wheelock SFB-W).....	29.36	6.77
28 46 13 31-2724 EA Red, Shallow Surface Mounted, Back Box (Wheelock SHBB-R).....	48.21	16.93
28 46 13 31-2725 EA White, Shallow Surface Mounted, Back Box (Wheelock SHBB-W)	48.21	16.93
28 46 13 31-2726 EA Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R).....	30.75	6.77
28 46 13 31-2727 EA Red, Weather Resistant Back Box (Wheelock WBB-R).....	53.52	16.93
28 46 13 31-2728 EA Silver, Weather Resistant Back Box (Wheelock WBB-S).....	53.52	16.93
28 46 13 31-2729 EA White, Weather Resistant Back Box (Wheelock WBB-W)	53.52	16.93
28 46 13 31-2730 EA Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R).....	37.41	6.77
28 46 13 31-2731 EA White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W).....	37.41	6.77
28 46 13 31-2732 EA Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-R).....	37.41	6.77
28 46 13 31-2733 EA White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-W)	37.41	6.77
28 46 13 31-2734 EA Gasket Kit For Rear Wiring To Outdoor Back Box (Wheelock WP-KIT)	26.08	6.77
28 46 13 31-2735 EA Weather Resistant Back Box For ASWP (Wheelock WPBB-R)	64.99	16.93
28 46 13 31-2736 EA Weather Resistant Back Box For RSSWP (Wheelock WPSBB-R).....	59.96	16.93
28 46 13 31-2737 EA Red Plate For RSS (Wheelock RSSCP-R).....	21.23	6.77
28 46 13 31-2738 EA White Plate For RSS (Wheelock RSSCP-W).....	21.23	6.77
28 46 13 31-2739 EA Red Fire Plate For RSS (Wheelock RSSCPW-FR)	22.15	6.77
28 46 13 31-2740 EA White Fire Plate For RSS (Wheelock RSSCPW-FW)	22.15	6.77
28 46 13 31-2741 EA Red, Indoor, Surface Extender (Wheelock ISP2-R).....	21.62	6.77
28 46 13 31-2742 EA Red, 24 Volt DC, 135/185 Candela, Wall Mounted Strobe Plate (Wheelock RSSP-24MCHW-FR).....	150.85	6.77
28 46 13 31-2743 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-ALW)	135.40	6.77
28 46 13 31-2744 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, No Lettering, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-NW).....	133.11	6.77
28 46 13 31-2745 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, ALERT Lettering, Wall Mounted Strobe Plate (Wheelock RSSPA-24MCW-ALW)	135.40	6.77
28 46 13 31-2746 EA Red, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-R).....	24.25	6.77
28 46 13 31-2747 EA White, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-W)	23.56	6.77
28 46 13 31-2748 EA Red, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-R).....	24.76	6.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2749 EA White, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-W)	24.76	6.77
28 46 13 31-2750 EA White, Fire Lettered, Grill Plate For E50 Speaker/Strobe (Wheelock ECHSG50-FW)	23.56	6.77
28 46 13 31-2751 EA Red, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FR)	24.65	6.77
28 46 13 31-2752 EA White, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FW)	24.65	6.77
28 46 13 31-2753 EA Red, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-R)	23.56	6.77
28 46 13 31-2754 EA White, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-W)	23.56	6.77
28 46 13 31-2755 EA Red, Surface Mounted, Extender Ring (Wheelock SER-R)	32.26	6.77
28 46 13 31-2756 EA White, Surface Mounted, Extender Ring (Wheelock SER-W)	32.60	6.77
28 46 13 31-2757 EA Red, Semi-Flush, Plate (Wheelock SFP-R)	26.08	6.77
28 46 13 31-2758 EA Silver, Semi-Flush, Plate (Wheelock SFP-S)	24.76	6.77
28 46 13 31-2759 EA White, Semi-Flush, Plate (Wheelock SFP-W)	26.08	6.77
28 46 13 31-2760 EA Red, Weather Resistant Back Box For ASWP (Wheelock WPBB-R)	64.99	16.93
28 46 13 31-2761 EA Red, Weather Resistant Back Box For RSSWP (Wheelock WPSBB-R)	59.96	16.93
28 46 13 31-2762 EA White, Weather Resistant Back Box For RSSWP Series (Wheelock WPSBB-W)	59.96	16.93
28 46 13 31-2763 Manual Pull Station (28 46 13 31-2571)		
28 46 13 31-2764 EA SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100)	147.05	33.87
28 46 13 31-2765 EA SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200)	147.05	33.87
28 46 13 31-2766 EA Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X)	1,265.38	33.87
28 46 13 31-2767 Fire Alarm Terminal Cabinets (28 46 13 31)		
28 46 13 31-2768 EA 18 Point Lockable Fire Alarm Terminal Cabinet	274.29	67.89
28 46 13 31-2769 EA 32 Point Lockable Fire Alarm Terminal Cabinet	357.43	67.89
28 46 13 31-2770 EA 64 Point Lockable Fire Alarm Terminal Cabinet	523.67	67.89
28 46 13 31-2771 EA 128 Point Lockable Fire Alarm Terminal Cabinet	689.87	67.89
28 46 13 31-2772 Test And Certification Of Fire Alarm System To Tie In To Existing Systems (28 46 13 31)		
28 46 13 31-2773 DAY Test And Certification Of Fire Alarm System To Tie Into Existing Systems	1,076.61	
28 46 13 31-2774 HR Test And Certification Of Fire Alarm System To Tie In To Existing Systems	336.44	
28 46 13 31-2775 Programming Of Existing Fire Alarm System (28 46 13 31)		
28 46 13 31-2776 HR Fire Alarm Technician For Programming Of Existing Fire Alarm System	269.15	
28 46 13 31-2777 Removal And Reinstallation Of Smoke Detector (28 46 13 31) Note: Includes storage, cleaning and supply materials.		
28 46 13 31-2778 EA Removal And Reinstallation Of Ceiling Mounted Smoke Detector	189.67	
28 46 13 31-2779 EA Removal And Reinstallation Of Wall Mounted Smoke Detector	152.41	
28 46 13 31-2780 Kidde Fire Safety Equipment (28 46 13 31)		
28 46 13 31-2781 Smoke Detectors (28 46 13 31-2780)		
28 46 13 31-2782 EA Combination Smoke And Carbon Monoxide Detector, Intelligent Sensor, 120 Volt Hardwired, With10 Year Sealed Battery Back-up (Kidde P4010ACS-CO)	174.20	50.80
28 46 13 31-2783 EA Combination Smoke And Carbon Monoxide Detector, 120 Volt Wired, With 10 Year Sealed Battery Back-up (Kidde i12010SCO)	153.72	50.80
28 46 13 31-2784 EA Combination Smoke And Carbon Monoxide Detector, With 10 Year Sealed Battery (Kidde P3010K-CO)	141.85	50.80
28 46 13 31-2785 Potter Fire Alarm (28 46 13 31)		
28 46 13 31-2786 Electric Alarm Bells (28 46 13 31-2785)		
28 46 13 31-2787 EA 6" Alarm Bell, 12 Volt DC (Potter MBA-6-12)	142.71	50.80
28 46 13 31-2788 EA 8" Alarm Bell, 12 Volt DC (Potter MBA-8-12)	155.69	50.80
28 46 13 31-2789 EA 10" Alarm Bell, 12 Volt DC (Potter MBA-10-12)	162.18	50.80
28 46 13 31-2790 EA 6" Alarm Bell, 24 Volt DC (Potter MBA-6-24)	142.71	50.80
28 46 13 31-2791 EA 8" Alarm Bell, 24 Volt DC (Potter MBA-8-24)	155.69	50.80
28 46 13 31-2792 EA 10" Alarm Bell, 24 Volt DC (Potter MBA-10-24)	162.18	50.80
28 46 13 31-2793 EA 6" Alarm Bell, 24 Volt AC (Potter PBA246)	153.73	50.80
28 46 13 31-2794 EA 8" Alarm Bell, 24 Volt AC (Potter PBA248)	159.95	50.80
28 46 13 31-2795 EA 10" Alarm Bell, 24 Volt AC (Potter PBA2410)	196.65	50.80
28 46 13 31-2796 EA 6" Alarm Bell, 120 Volt AC (Potter PBA1206)	144.58	50.80
28 46 13 31-2797 EA 8" Alarm Bell, 120 Volt AC (Potter PBA1208)	159.95	50.80
28 46 13 31-2798 EA 10" Alarm Bell, 120 Volt AC (Potter PBA12010)	172.81	50.80
28 46 13 31-2799 Manual Pull Station (28 46 13 31-2785)		
28 46 13 31-2800 EA SPST, Single Action, Manual Pull Station (Potter P32-1T)	104.53	33.87
28 46 13 31-2801 EA DPST, Single Action, Manual Pull Station (Potter RMS-2T)	110.43	33.87
28 46 13 31-2802 EA DPST, Single Action, Manual Pull Station (Potter RMS-6T)	176.76	33.87
28 46 13 31-2803 EA DPST, Single Action, Key Reset Manual Pull Station (Potter RMS-1T-KL)	114.09	33.87
28 46 13 31-2804 EA SPST, Dual Action, Manual Pull Station (Potter P32-1T-LP)	107.87	33.87
28 46 13 31-2805 EA SPST, Weather Proof, Manual Pull Station (Potter RMS-1T-WP)	197.51	33.87
28 46 13 31-2806 EA SPST, Weather Proof Dual Action, Manual Pull Station (Potter RMS-1T-WP-LP)	246.99	33.87

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 46 31 Fire-Alarm Initiating Devices (28 46)**28 46 31 11 Heat-Sensing Fire Detectors (28 46 31)****28 46 31 11-0001 Protectowire Fire Alarm (28 46 31 11)****28 46 31 11-0002 Linear Heat Detector Cable (28 46 31 11-0001)**

28 46 31 11-0003	LF	Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC).....	6.16	
28 46 31 11-0004	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M).....	6.68	
28 46 31 11-0005	LF	High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR).....	6.68	
28 46 31 11-0006	LF	High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M).....	7.19	
28 46 31 11-0007	LF	Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT).....	7.85	
28 46 31 11-0008	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M).....	8.37	
28 46 31 11-0009	EA	Flexible Lead Connector For Linear Heat Detector (Protectowire PFL).....	78.18	
28 46 31 11-0010	EA	Splicing Connector For Linear Heat Detector (Protectowire PWSC).....	30.66	
28 46 31 11-0011	EA	Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W).....	10.36	
28 46 31 11-0012	EA	Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2).....	10.36	
28 46 31 11-0013	EA	Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO).....	11.54	
28 46 31 11-0014	EA	Beam Clamp For Linear Heat Detector (Protectowire BC-2).....	17.99	
28 46 31 11-0015	EA	Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P).....	18.68	
28 46 31 11-0016	EA	Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A).....	1.75	
28 46 31 11-0017	EA	Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B).....	2.37	
28 46 31 11-0018	EA	Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C).....	10.44	

28 46 41 Fire-Alarm Notification Appliances (28 46)**28 46 41 11 Audible Fire-Alarm Notification Appliances (28 46 41)**

See CSI section 28 46 13 31-0000 for fire alarm speakers.

28 46 41 31 Combination Fire-Alarm Notification Appliances (28 46 41)

See CSI section 28 46 13 31-0000 for fire alarm horns and strobes.

28 47 Mass Notification (28 40)**28 47 15 Mass Notification Control Panels (28 47)****28 47 15 00-0001 Central Station Controls (28 47 15)**

28 47 15 00-0002	EA	Desktop 18 Function Base Station Control/Encoder (Whelen E747).....	1,010.52	
28 47 15 00-0003	EA	Desktop 35 Function Base Station Control/Encoder (Whelen E969).....	1,642.44	
28 47 15 00-0004	EA	Desktop Central Station Control Encoder/Decoder (Whelen E2010).....	4,919.90	67.74
28 47 15 00-0005	EA	Siren Status Printer And Cable Option For E2010 (Whelen E2010P).....	1,503.06	33.87
28 47 15 00-0006	EA	Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R).....	5,738.85	135.48
28 47 15 00-0007	EA	Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK).....	836.66	33.87
28 47 15 00-0008	EA	Option To Convert Activation Controls To FSK Format (Whelen FSKCEO).....	897.38	33.87

28 47 17 Notification Devices and Methods (28 47)**28 47 17 17 Notification Appliances and Methods Public Methods (28 47 17)****28 47 17 17-0001 Voice Capable Omni-Directional Speakers (28 47 17 17)**

28 47 17 17-0002	EA	1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A).....	14,271.77	870.33
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0003	EA	2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A).....	17,408.28	908.17
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0004	EA	3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A).....	20,506.01	946.02
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0005	EA	4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A).....	23,603.75	983.85
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0006	EA	5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A).....	26,779.02	1,021.69
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0007	EA	6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A).....	32,086.55	1,059.53
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0008	EA	7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A).....	35,223.05	1,097.38
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0009	EA	8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A).....	38,992.77	1,135.21
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0010	EA	9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A).....	42,090.50	1,173.05
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0011	EA	10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A).....	45,227.01	1,210.90
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0012	EA	3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003).....	30,923.51	1,059.53
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0013	EA	4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004).....	32,935.73	1,097.38
		Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0014	EA	One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL).....	547.14	33.87
28 47 17 17-0015	EA	VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV).....	2,290.44	33.87
28 47 17 17-0016	EA	UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU).....	2,290.44	33.87
28 47 17 17-0017	EA	UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU).....	2,070.76	33.87
28 47 17 17-0018	EA	VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV).....	2,006.14	33.87

**Electronic Safety and Security****28**

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0019 EA Two-Tone Sequential Option (Whelen WPSTT).....	505.95	33.87
28 47 17 17-0020 EA Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS).....	646.68	33.87
28 47 17 17-0021 EA Landline, 10 Digit DTMF (Whelen C2030LL).....	671.85	33.87
28 47 17 17-0022 EA VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV).....	3,261.49	33.87
28 47 17 17-0023 EA UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU).....	2,510.13	33.87
28 47 17 17-0024 EA UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU).....	2,510.13	33.87
28 47 17 17-0025 EA VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV).....	2,510.13	33.87
28 47 17 17-0026 EA Option To Convert WPS Activation Controls To FSK Format (Whelen FSKXMOD).....	897.38	33.87
28 47 17 17-0027 EA Cabinet Window LED Status Indicator (Whelen STATUS).....	623.07	33.87
28 47 17 17-0028 EA Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT).....	416.71	33.87
28 47 17 17-0029 EA Intrusion Alarm (Whelen INTRUWPS).....	317.16	33.87
28 47 17 17-0030 EA Custom Pre-Recorded Messages (One Time Set-up Charge Per Message) (Whelen MSGPROG).....	218.53	
28 47 17 17-0031 EA Whelen Library Messages (Whelen MSGPROGL).....	43.76	
28 47 17 17-0032 EA Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC).....	173.57	33.87
28 47 17 17-0033 EA One Pair Of Whelen Approved Batteries (Whelen WPSBATT).....	1,176.78	50.80
28 47 17 17-0034 EA WPS And OA Series, Rooftop Mounted (Whelen RTM).....	11,199.87	832.49
28 47 17 17-0035 EA Two 80 Watt Panels, Solar Power System (Whelen SBC280).....	4,632.16	203.21
Note: Includes mounting bracket and regulator.		
28 47 17 17-0036 EA Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA).....	2,350.16	50.80
28 47 17 17-0037 EA Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB).....	2,350.16	50.80
28 47 17 17-0038 EA Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC).....	2,350.16	50.80
28 47 17 17-0039 EA Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG).....	2,350.16	50.80
28 47 17 17-0040 EA Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR).....	2,350.16	50.80
28 47 17 17-0041 EA Amber, 24 Volt DC, LED, Beacon (Whelen L31HAF4).....	820.14	50.80
28 47 17 17-0042 EA Blue, 24 Volt DC, LED, Beacon (Whelen L31HBF4).....	820.14	50.80
28 47 17 17-0043 EA Red, 24 Volt DC, LED, Beacon (Whelen L31HRF4).....	820.14	50.80
28 47 17 17-0044 EA Amber, 24 Volt DC, Strobe (Whelen ISB24A).....	642.79	50.80
28 47 17 17-0045 EA Blue, 24 Volt DC, Strobe (Whelen ISB24B).....	642.79	50.80
28 47 17 17-0046 EA Clear, 24 Volt DC, Strobe (Whelen ISB24C).....	642.79	50.80
28 47 17 17-0047 EA Green, 24 Volt DC, Strobe (Whelen ISB24G).....	642.79	50.80
28 47 17 17-0048 EA Red, 24 Volt DC, Strobe (Whelen ISB24R).....	642.79	50.80
28 47 17 17-0049 EA Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS).....	911.59	33.87
28 47 17 17-0050 EA Strobe Controller (Whelen STCTRL).....	677.57	33.87
28 47 17 17-0051 EA LED Controller (Whelen LEDCTRL).....	677.57	33.87
28 47 17 17-0052 EA Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL).....	443.35	50.80
28 47 17 17-0053 EA Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS).....	582.16	
28 47 17 17-0054 EA 400 Watt Speaker Driver (Whelen SPKDRV).....	938.44	33.87
28 47 17 17-0055 EA Cabinet Window LED Status Indicator (Whelen STATUS).....	472.77	33.87
28 47 17 17-0056 EA Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC).....	173.57	33.87
28 47 17 17-0057 EA Notifier/Whelen Interface Board (Whelen NAUXCS).....	928.14	33.87
28 47 17 17-0058 Tone Only, Omni-Alert Sirens (28 47 17 17)		
28 47 17 17-0059 EA One Cell, Tone Only, Omni-Alert Siren (Whelen OA1).....	11,548.79	832.49
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0060 EA Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2).....	14,401.00	870.33
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0061 EA Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3).....	17,227.36	908.17
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0062 EA Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4).....	20,118.33	946.02
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0063 EA One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUXIN).....	328.78	33.87
28 47 17 17-0064 EA One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL).....	547.14	33.87
28 47 17 17-0065 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OD2030NV).....	2,290.44	33.87
28 47 17 17-0066 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OD2030NU).....	2,290.44	33.87
28 47 17 17-0067 EA UHF Wide-Band, 10 Digit DTMF (Whelen OD2030WU).....	2,070.76	33.87
28 47 17 17-0068 EA VHF High-Wide Band, 10 Digit DTMF (Whelen OD2030WV).....	2,006.14	33.87
28 47 17 17-0069 EA One-Way Control Two-Tone Sequential Option (Whelen OTT).....	441.88	33.87
28 47 17 17-0070 EA Two Way Controls, Contact Closure Activation Board (Whelen OAUXCS).....	721.63	33.87
28 47 17 17-0071 EA Two Way Landline Activation (Whelen OC2030LL).....	750.06	33.87
28 47 17 17-0072 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OC2030NV).....	2,510.13	33.87
28 47 17 17-0073 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OC2030NU).....	2,510.13	33.87
28 47 17 17-0074 EA UHF, 10 Digit DTMF (Whelen OC2030WU).....	2,510.13	33.87
28 47 17 17-0075 EA VHF High Band, 10 Digit DTMF (Whelen OC2030WV).....	2,510.13	33.87
28 47 17 17-0076 EA Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD).....	897.38	33.87
28 47 17 17-0077 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT).....	416.71	33.87
28 47 17 17-0078 EA Cabinet Window LED Status Indicator (Whelen OSTATUS).....	472.77	33.87
28 47 17 17-0079 EA Intrusion Alarm (Whelen OINTRU).....	255.38	33.87
28 47 17 17-0080 EA 80 Watt Solar Power Option (Whelen OSBC280).....	4,632.16	203.21
28 47 17 17-0081 EA One Pair Of Whelen Approved Batteries For Omniaert (Whelen BSETO).....	957.43	50.80
28 47 17 17-0082 Tone-Only Rotating Directional Speakers (28 47 17 17)		
28 47 17 17-0083 EA 3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3).....	23,862.20	983.85
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0084 EA 4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4).....	25,305.83	1,021.69
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0085 EA Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN).....	298.86	33.87
28 47 17 17-0086 EA Landline, 10 Digit DTMF (Whelen VD2030LL).....	609.20	33.87
28 47 17 17-0087 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VD2030NV).....	2,290.44	33.87
28 47 17 17-0088 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VD2030NU).....	2,290.44	33.87

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0089 EA UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU).....	2,070.76	33.87
28 47 17 17-0090 EA VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV).....	2,006.14	33.87
28 47 17 17-0091 EA Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT).....	441.88	33.87
28 47 17 17-0092 EA Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS).....	707.41	33.87
28 47 17 17-0093 EA Landline, 10 Digit DTMF (Whelen VC2030LL).....	750.06	33.87
28 47 17 17-0094 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	2,510.13	33.87
28 47 17 17-0095 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	2,510.13	33.87
28 47 17 17-0096 EA UHF, 10 Digit DTMF (Whelen VC230WU).....	2,510.13	33.87
28 47 17 17-0097 EA VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	2,510.13	33.87
28 47 17 17-0098 EA Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSSKXMOD).....	897.38	33.87
28 47 17 17-0099 EA Cabinet Window LED Status Indicator (Whelen VSTATUS).....	525.20	33.87
28 47 17 17-0100 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT).....	416.71	33.87
28 47 17 17-0101 EA Vortex Intrusion Alarm (Whelen VINTRU).....	255.38	33.87
28 47 17 17-0102 EA Speaker Pole Top Bracket (Whelen VPTB).....	721.63	33.87
28 47 17 17-0103 EA 80 Watt Solar Power Option (Whelen VSBC280).....	4,632.16	203.21
28 47 17 17-0104 EA One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR).....	957.43	50.80
28 47 17 17-0105 EA Program Charge For Custom VROM Message (Whelen VPROG).....	3,808.74	
28 47 17 17-0106 Uni-Directional Rotating Speakers (28 47 17 17)		
28 47 17 17-0107 EA 118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	15,253.90	870.33
28 47 17 17-0108 EA One Way Contact Closure Activation Control Board (Whelen HAUXIN).....	298.86	33.87
28 47 17 17-0109 EA Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL).....	609.20	33.87
28 47 17 17-0110 EA VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV).....	2,290.44	33.87
28 47 17 17-0111 EA UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU).....	2,290.44	33.87
28 47 17 17-0112 EA UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	2,070.76	33.87
28 47 17 17-0113 EA VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	2,006.14	33.87
28 47 17 17-0114 EA Two-Tone Sequential Option For Hornet (Whelen HORTT).....	490.31	33.87
28 47 17 17-0115 EA Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS).....	634.09	33.87
28 47 17 17-0116 EA Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL).....	671.85	33.87
28 47 17 17-0117 EA VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV).....	2,510.13	33.87
28 47 17 17-0118 EA UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU).....	2,510.13	33.87
28 47 17 17-0119 EA UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU).....	2,510.13	33.87
28 47 17 17-0120 EA VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	2,510.13	33.87
28 47 17 17-0121 EA Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD).....	897.38	33.87
28 47 17 17-0122 EA LED Status Indicator (Whelen HSTATUS).....	472.77	33.87
28 47 17 17-0123 EA Option For Paging Interface (Whelen HPGINT).....	416.71	33.87
28 47 17 17-0124 EA Intrusion Alarm (Whelen HINTRU).....	255.38	33.87
28 47 17 17-0125 EA Solar Power Option (Whelen HSBC280).....	4,632.16	203.21
28 47 17 17-0126 EA Pole Top Bracket For Speaker (Whelen HPTB).....	668.42	33.87
28 47 17 17-0127 EA One Pair Of Whelen Approved Batteries (Whelen BSETF).....	957.43	50.80
28 47 17 17-0128 All Hazard In-Plant Personnel Warning System (28 47 17 17)		
28 47 17 17-0129 EA 400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400).....	7,646.86	1,083.83
28 47 17 17-0130 EA 800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800).....	9,274.70	1,219.30
28 47 17 17-0131 EA 15 Watt, Wide Angle Speaker (Whelen WS15T).....	425.40	50.80
28 47 17 17-0132 EA Recess Mounted, 15 Watt Speaker (Whelen WS15TR).....	407.10	50.80
28 47 17 17-0133 EA With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN).....	773.23	50.80
28 47 17 17-0134 EA 30 Watt, Wide Angle Speaker (Whelen WS30T).....	529.52	50.80
28 47 17 17-0135 EA 60 Watt, Wide Angle Speaker (Whelen WS60T).....	1,064.98	50.80
28 47 17 17-0136 EA Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T).....	1,833.87	57.58
28 47 17 17-0137 EA 100 Watt, Wide Angle Speaker (Whelen WS100).....	680.55	50.80
28 47 17 17-0138 EA Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH).....	1,060.22	57.58
28 47 17 17-0139 EA Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU).....	255.38	33.87
28 47 17 17-0140 Firehouse Siren (28 47 17 17)		
28 47 17 17-0141 EA Auxiliary Board Contact Closure (Whelen FAUXIN).....	298.86	33.87
28 47 17 17-0142 EA Two-Tone Sequential Option (Whelen FTT).....	441.88	33.87
28 47 17 17-0143 EA Auxiliary/Status Control Board (Whelen FAUXCS).....	707.41	33.87
28 47 17 17-0144 EA Landline, 10 Digit DTMF (Whelen FC2030LL).....	671.85	33.87
28 47 17 17-0145 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV).....	2,510.13	33.87
28 47 17 17-0146 EA UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU).....	2,510.13	33.87
28 47 17 17-0147 EA UHF, 10 Digit DTMF (Whelen FC230WU).....	2,510.13	33.87
28 47 17 17-0148 EA VHF High Band, 10 Digit DTMF (Whelen FC230WV).....	2,510.13	33.87
28 47 17 17-0149 EA Paging Interface Control Option (Whelen FPGINT).....	416.71	33.87
28 47 17 17-0150 EA Intrusion Alarm Control Option (Whelen FINTRU).....	255.38	33.87
28 47 17 17-0151 EA Solar Power Option (Whelen FSBC280).....	4,632.16	203.21
Note: Two 80 watt panels, with brackets and solar regulator.		
28 47 17 17-0152 Alert Monitor And Message Display (28 47 17 17)		
28 47 17 17-0153 EA Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	2,096.60	33.87
28 47 17 17-0154 EA Alert Monitor VHF High-Narrow Band (Whelen V2000NH).....	2,096.60	33.87
28 47 17 17-0155 EA Alert Monitor UHF Narrow-Band (Whelen V2000NU).....	2,096.60	33.87
28 47 17 17-0156 EA Alert Monitor With Radio Receiver UHF (Whelen V2000U).....	2,096.60	33.87
28 47 17 17-0157 EA Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	269.80	50.80
28 47 17 17-0158 EA Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG).....	80.33	33.87

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0159 EA Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA).....	162.47	
28 47 17 17-0160 EA Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	255.15	
28 47 17 17-0161 Portable Test Set (28 47 17 17)		
28 47 17 17-0162 EA VHF High Band, Portable Test Set (Whelen PT2010H).....	8,438.52	
28 47 17 17-0163 EA VHF Low Band, Portable Test Set (Whelen PT2010L).....	8,438.52	
28 47 17 17-0164 EA UHF, Portable Test Set (Whelen PT2010U).....	8,438.52	
28 47 17 17-0165 Replacement Warning Lights (28 47 17 17)		
28 47 17 17-0166 EA Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IA).....	419.59	54.19
28 47 17 17-0167 EA Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IB).....	419.59	54.19
28 47 17 17-0168 EA Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IC).....	419.59	54.19
28 47 17 17-0169 EA Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IG).....	419.59	54.19
28 47 17 17-0170 EA Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IR).....	419.59	54.19
28 47 17 17-0171 EA Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IA).....	450.48	54.19
28 47 17 17-0172 EA Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IB).....	296.02	54.19
28 47 17 17-0173 EA Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IC).....	445.90	54.19
28 47 17 17-0174 EA Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG).....	445.90	54.19
28 47 17 17-0175 EA Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR).....	445.90	54.19
28 47 17 17-0176 EA Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA).....	419.59	54.19
28 47 17 17-0177 EA Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB).....	419.59	54.19
28 47 17 17-0178 EA Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC).....	419.59	54.19
28 47 17 17-0179 EA Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG).....	419.59	54.19
28 47 17 17-0180 EA Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR).....	419.59	54.19
28 47 17 17-0181 EA Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA).....	468.79	54.19
28 47 17 17-0182 EA Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB).....	468.79	54.19
28 47 17 17-0183 EA Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC).....	307.46	54.19
28 47 17 17-0184 EA Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG).....	307.46	54.19
28 47 17 17-0185 EA Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR).....	307.46	54.19
28 47 17 17-0186 Antenna (28 47 17 17)		
28 47 17 17-0187 EA 50' Antenna Cable (Honeywell Ademco 7626-50HC).....	327.28	
28 47 17 17-0188 EA External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB).....	296.32	
28 47 17 17-0189 EA 80GHz Millimeter Wave Radio (BridgeWave Flex4-G-1000).....	15,960.16	
28 47 21 Mass Notification System Interfaces (28 47)		
28 47 21 21 Notification Interfaces to Fire Detection and Alarm (28 47 21)		
28 47 21 21-0001 Emergency Command Center (Honeywell Fire-Lite) (28 47 21 21)		
28 47 21 21-0002 EA Emergency Command Center Multipurpose Emergency Voice Evacuation Panels (Fire-Lite ECC-50/100 E).....	2,560.69	338.69
28 47 21 21-0003 EA Circuit Expander Module (Fire-Lite ECC_CE6).....	486.54	27.10
28 47 21 21-0004 EA 25V, 50 Watt Audio Amplifier Module (Fire-Lite ECC_50W_25V).....	430.37	33.87
28 47 21 21-0005 EA 75V, 50 Watt Audio Amplifier Module (Fire-Lite ECC_50W_70V).....	443.46	33.87
28 47 21 21-0006 EA 70V Transformer Conversion Module (Fire-Lite ECC_XRM_70V).....	232.74	33.87
28 47 21 21-0007 EA Local Operator Console (Fire-Lite ECC-LOC).....	1,341.31	67.74
28 47 21 21-0008 EA Remote Page Unit Hand Held Microphone (Fire-Lite ECC-RPU).....	1,051.84	16.93
28 47 21 21-0009 EA Distributed (Remote) Audio Amplifier, 50 Watts (Fire-Lite ECC-50DA).....	1,024.65	67.74
28 47 21 21-0010 EA Distributed (Remote) Audio Amplifier, 125 Watts (Fire-Lite ECC-125DA).....	1,752.37	67.74
28 47 21 21-0011 EA Distributed (Remote) Audio Amplifier With Backup, 50/100 Watts (Fire-Lite ECC50BDA).....	2,770.47	67.74
28 47 21 21-0012 EA 100 Watt Primary / 50 Watt Back-up Remote Amplifier Expander Card (Fire-Lite ECC-50WBU).....	1,357.95	33.87
28 47 21 21-0013 EA Distributed Audio Speaker Circuit/Zone Expander Module (Fire-Lite ECC-CE4).....	425.59	33.87
28 47 21 21-0014 EA Addressable Mini-Monitor Module (Fire-Lite MMF-301).....	106.84	33.87
28 47 21 21-0015 EA Thumb Latch (Fire-Lite THUMBLTCH).....	57.83	13.55
28 47 21 21-0016 EA 25-120 Ampere-Hours (AH) Battery Charger (Fire-Lite CHG-120F).....	757.48	13.55
28 47 21 21-0017 EA Replacement Microphone (Fire-Lite ECC-MICROPHONE).....	159.30	13.55
28 47 21 21-0018 EA 12 Volt, 7 Ampere-Hour (AH) Battery (Fire-Lite BAT-1270).....	298.11	33.87
28 47 21 21-0019 EA 12 Volt, 12 Ampere-Hour (AH) Battery (Fire-Lite BAT-12120).....	380.44	33.87
28 47 21 21-0020 EA 12 Volt, 18 Ampere-Hour (AH) Battery (Fire-Lite BAT-12180).....	284.75	33.87

END OF SECTION 28

28	28	Electronic Safety and Security
	28 40	Life Safety
	28 47	Mass Notification



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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		Earthwork	31	31
		Maintenance of Earthwork	31 01	
		Maintenance of Earth Moving	31 01 20	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 Earthwork

31 01 Maintenance of Earthwork ⁽³¹⁾

31 01 20 Maintenance of Earth Moving ^(31 01)

31 01 20 00-0001	Rip Settling Basins ^(31 01 20)	
Note: Rip through light soil and sand in settling basin. 8' on center (machine width).		
31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	792.47
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	1,207.11
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	1,048.40

31 05 Common Work Results for Earthwork ⁽³¹⁾

31 05 13 Soils for Earthwork ^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 05 13 00-0001	Fill Material (Loose, Purchased Material) ^(31 05 13)	
Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.		
31 05 13 00-0002	CY Bank Run/Fill Sand	40.52
	For Up To 8, Add	8.10
	For >8 To 16, Add	4.05
	For >48 To 64, Deduct	-3.02
	For >64 To 96, Deduct	-5.05
	For >96 To 168, Deduct	-7.07
	For >168 To 240, Deduct	-8.58
	For >240, Deduct	-10.09
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand	52.14
	For Up To 8, Add	10.43
	For >8 To 16, Add	5.21
	For >48 To 64, Deduct	-3.60
	For >64 To 96, Deduct	-6.21
	For >96 To 168, Deduct	-8.82
	For >168 To 240, Deduct	-10.62
	For >240, Deduct	-12.42
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	67.35
	For Up To 8, Add	13.47
	For >8 To 16, Add	6.74
	For >48 To 64, Deduct	-4.36
	For >64 To 96, Deduct	-7.73
	For >96 To 168, Deduct	-11.10
	For >168 To 240, Deduct	-13.28
	For >240, Deduct	-15.46
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand	58.30
	For Up To 8, Add	11.66
	For >8 To 16, Add	5.83
	For >48 To 64, Deduct	-3.91
	For >64 To 96, Deduct	-6.83
	For >96 To 168, Deduct	-9.74
	For >168 To 240, Deduct	-11.70
	For >240, Deduct	-13.65
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand	102.40
	For Up To 8, Add	20.48
	For >8 To 16, Add	10.24
	For >48 To 64, Deduct	-6.12
	For >64 To 96, Deduct	-11.24
	For >96 To 168, Deduct	-16.36
	For >168 To 240, Deduct	-19.41
	For >240, Deduct	-22.47
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt	44.28
	For Up To 8, Add	8.86
	For >8 To 16, Add	4.43
	For >48 To 64, Deduct	-3.21
	For >64 To 96, Deduct	-5.42
	For >96 To 168, Deduct	-7.64
	For >168 To 240, Deduct	-9.24
	For >240, Deduct	-10.85
31 05 13 00-0008	CY Lime Rock Screening	41.76
	For Up To 8, Add	8.35
	For >8 To 16, Add	4.18
	For >48 To 64, Deduct	-3.08
	For >64 To 96, Deduct	-5.17
	For >96 To 168, Deduct	-7.26
	For >168 To 240, Deduct	-8.80
	For >240, Deduct	-10.34

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 13 Soils for Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0009 CY Crushed Lime Rock Maximum 3-1/2"	41.76	
For Up To 8, Add	8.35	
For >8 To 16, Add	4.18	
For >48 To 64, Deduct	-3.08	
For >64 To 96, Deduct	-5.17	
For >96 To 168, Deduct	-7.26	
For >168 To 240, Deduct	-8.80	
For >240, Deduct	-10.34	
31 05 13 00-0010 CY Sand/Clay	42.32	
For Up To 8, Add	8.46	
For >8 To 16, Add	4.23	
For >48 To 64, Deduct	-3.11	
For >64 To 96, Deduct	-5.23	
For >96 To 168, Deduct	-7.34	
For >168 To 240, Deduct	-8.90	
For >240, Deduct	-10.45	
31 05 13 00-0011 CY Recycled Concrete Aggregate	37.96	
For Up To 8, Add	7.59	
For >8 To 16, Add	3.80	
For >48 To 64, Deduct	-2.89	
For >64 To 96, Deduct	-4.79	
For >96 To 168, Deduct	-6.69	
For >168 To 240, Deduct	-8.14	
For >240, Deduct	-9.58	
31 05 13 00-0012 CY Pit Run Clay	55.43	
For Up To 8, Add	11.09	
For >8 To 16, Add	5.54	
For >48 To 64, Deduct	-3.77	
For >64 To 96, Deduct	-6.54	
For >96 To 168, Deduct	-9.31	
For >168 To 240, Deduct	-11.19	
For >240, Deduct	-13.08	
31 05 13 00-0013 CY Light Clay / Loam	51.19	
For Up To 8, Add	10.24	
For >8 To 16, Add	5.12	
For >48 To 64, Deduct	-3.55	
For >64 To 96, Deduct	-6.11	
For >96 To 168, Deduct	-8.67	
For >168 To 240, Deduct	-10.45	
For >240, Deduct	-12.23	
31 05 13 00-0014 CY Heavy Clay	61.70	
For Up To 8, Add	12.34	
For >8 To 16, Add	6.17	
For >48 To 64, Deduct	-4.08	
For >64 To 96, Deduct	-7.17	
For >96 To 168, Deduct	-10.25	
For >168 To 240, Deduct	-12.29	
For >240, Deduct	-14.33	

31 05 16 Aggregates for Earthwork (31 05)

See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 05 16 00-0001	Aggregate (Loose, Purchased Material) (31 05 16)	
	Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles, 01 74 19 00-0045 for hauling greater than 15 miles.	
31 05 16 00-0002	CY #2 (1-1/2" To 2-1/2" Clean) Stone Aggregate Fill	54.19
	For Up To 8, Add	10.84
	For >8 To 16, Add	5.42
	For >48 To 64, Deduct	-3.70
	For >64 To 96, Deduct	-6.41
	For >96 To 168, Deduct	-9.12
	For >168 To 240, Deduct	-10.98
	For >240, Deduct	-12.83
31 05 16 00-0003	CY #3 (1" To 2" Clean) Stone Aggregate Fill	56.20
	For Up To 8, Add	11.24
	For >8 To 16, Add	5.62
	For >48 To 64, Deduct	-3.81
	For >64 To 96, Deduct	-6.62
	For >96 To 168, Deduct	-9.43
	For >168 To 240, Deduct	-11.33
	For >240, Deduct	-13.23
31 05 16 00-0004	CY #4 (3/4" To 1-1/2" Clean) Stone Aggregate Fill	54.19
	For Up To 8, Add	10.84
	For >8 To 16, Add	5.42
	For >48 To 64, Deduct	-3.70
	For >64 To 96, Deduct	-6.41
	For >96 To 168, Deduct	-9.12
	For >168 To 240, Deduct	-10.98
	For >240, Deduct	-12.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0005 CY #5 (1/2" To 1" Clean) Stone Aggregate Fill	57.66	
For Up To 8, Add	11.53	
For >8 To 16, Add	5.77	
For >48 To 64, Deduct	-3.88	
For >64 To 96, Deduct	-6.76	
For >96 To 168, Deduct	-9.64	
For >168 To 240, Deduct	-11.58	
For >240, Deduct	-13.52	
31 05 16 00-0006 CY #6 (3/8" To 3/4" Clean) Stone Aggregate Fill	59.70	
For Up To 8, Add	11.94	
For >8 To 16, Add	5.97	
For >48 To 64, Deduct	-3.98	
For >64 To 96, Deduct	-6.97	
For >96 To 168, Deduct	-9.95	
For >168 To 240, Deduct	-11.94	
For >240, Deduct	-13.93	
31 05 16 00-0007 CY #56 (3/8" To 1") Stone Aggregate Fill	57.98	
For Up To 8, Add	11.60	
For >8 To 16, Add	5.80	
For >48 To 64, Deduct	-3.89	
For >64 To 96, Deduct	-6.79	
For >96 To 168, Deduct	-9.69	
For >168 To 240, Deduct	-11.64	
For >240, Deduct	-13.59	
31 05 16 00-0008 CY #57 (3/8" To 1") Stone Aggregate Fill	61.54	
For Up To 8, Add	12.31	
For >8 To 16, Add	6.15	
For >48 To 64, Deduct	-4.07	
For >64 To 96, Deduct	-7.15	
For >96 To 168, Deduct	-10.23	
For >168 To 240, Deduct	-12.26	
For >240, Deduct	-14.30	
31 05 16 00-0009 CY #67 Or #68 (3/16" To 3/4") Stone Aggregate Fill	56.09	
For Up To 8, Add	11.22	
For >8 To 16, Add	5.61	
For >48 To 64, Deduct	-3.80	
For >64 To 96, Deduct	-6.60	
For >96 To 168, Deduct	-9.41	
For >168 To 240, Deduct	-11.31	
For >240, Deduct	-13.21	
31 05 16 00-0010 CY #71 (3/8" To 1/2") Stone Aggregate Fill	57.08	
For Up To 8, Add	11.42	
For >8 To 16, Add	5.71	
For >48 To 64, Deduct	-3.85	
For >64 To 96, Deduct	-6.70	
For >96 To 168, Deduct	-9.56	
For >168 To 240, Deduct	-11.48	
For >240, Deduct	-13.41	
31 05 16 00-0011 CY #78 (3/32" To 1/2") Stone Aggregate Fill	57.51	
For Up To 8, Add	11.50	
For >8 To 16, Add	5.75	
For >48 To 64, Deduct	-3.87	
For >64 To 96, Deduct	-6.75	
For >96 To 168, Deduct	-9.62	
For >168 To 240, Deduct	-11.56	
For >240, Deduct	-13.49	
31 05 16 00-0012 CY #8 (3/32" To 3/8") Stone Aggregate Fill	59.70	
For Up To 8, Add	11.94	
For >8 To 16, Add	5.97	
For >48 To 64, Deduct	-3.98	
For >64 To 96, Deduct	-6.97	
For >96 To 168, Deduct	-9.95	
For >168 To 240, Deduct	-11.94	
For >240, Deduct	-13.93	
31 05 16 00-0013 CY #89 (1/16" To 3/8") Stone Aggregate Fill	60.32	
For Up To 8, Add	12.06	
For >8 To 16, Add	6.03	
For >48 To 64, Deduct	-4.01	
For >64 To 96, Deduct	-7.03	
For >96 To 168, Deduct	-10.04	
For >168 To 240, Deduct	-12.05	
For >240, Deduct	-14.05	
31 05 16 00-0014 CY #9 (3/32" To 3/16") Stone Aggregate Fill	59.70	
For Up To 8, Add	11.94	
For >8 To 16, Add	5.97	
For >48 To 64, Deduct	-3.98	
For >64 To 96, Deduct	-6.97	
For >96 To 168, Deduct	-9.95	
For >168 To 240, Deduct	-11.94	
For >240, Deduct	-13.93	

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 16 Aggregates for Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0015 CY #10 (1/16" To 3/16") Stone Aggregate Fill	60.96	
For Up To 8, Add	12.19	
For >8 To 16, Add	6.10	
For >48 To 64, Deduct	-4.04	
For >64 To 96, Deduct	-7.09	
For >96 To 168, Deduct	-10.14	
For >168 To 240, Deduct	-12.16	
For >240, Deduct	-14.18	
31 05 16 00-0016 CY #610 (1/16" To 3/4") Modified Stone Aggregate Fill	60.32	
For Up To 8, Add	12.06	
For >8 To 16, Add	6.03	
For >48 To 64, Deduct	-4.01	
For >64 To 96, Deduct	-7.03	
For >96 To 168, Deduct	-10.04	
For >168 To 240, Deduct	-12.05	
For >240, Deduct	-14.05	
31 05 16 00-0017 CY 3/16" Max Screenings Stone Aggregate Fill	51.37	
For Up To 8, Add	10.27	
For >8 To 16, Add	5.14	
For >48 To 64, Deduct	-3.56	
For >64 To 96, Deduct	-6.13	
For >96 To 168, Deduct	-8.70	
For >168 To 240, Deduct	-10.48	
For >240, Deduct	-12.26	
31 05 16 00-0018 CY Over 6" To 12" Stone Aggregate Fill, Random Size	55.42	
For Up To 8, Add	11.08	
For >8 To 16, Add	5.54	
For >48 To 64, Deduct	-3.77	
For >64 To 96, Deduct	-6.54	
For >96 To 168, Deduct	-9.31	
For >168 To 240, Deduct	-11.19	
For >240, Deduct	-13.07	
31 05 16 00-0019 CY Over 6" To 12" Graded Stone Aggregate Fill	55.42	
For Up To 8, Add	11.08	
For >8 To 16, Add	5.54	
For >48 To 64, Deduct	-3.77	
For >64 To 96, Deduct	-6.54	
For >96 To 168, Deduct	-9.31	
For >168 To 240, Deduct	-11.19	
For >240, Deduct	-13.07	
31 05 16 00-0020 CY 3" To 7" Surge Stone Aggregate Fill, Random Size	59.46	
For Up To 8, Add	11.89	
For >8 To 16, Add	5.95	
For >48 To 64, Deduct	-3.97	
For >64 To 96, Deduct	-6.94	
For >96 To 168, Deduct	-9.91	
For >168 To 240, Deduct	-11.90	
For >240, Deduct	-13.88	
31 05 16 00-0021 CY 3" To 7" Surge Stone Graded Aggregate Fill	62.34	
For Up To 8, Add	12.47	
For >8 To 16, Add	6.23	
For >48 To 64, Deduct	-4.11	
For >64 To 96, Deduct	-7.23	
For >96 To 168, Deduct	-10.35	
For >168 To 240, Deduct	-12.40	
For >240, Deduct	-14.46	
31 05 16 00-0022 CY 2-1/2" Minus Crusher Run Aggregate Fill	37.30	
For Up To 8, Add	7.46	
For >8 To 16, Add	3.73	
For >48 To 64, Deduct	-2.86	
For >64 To 96, Deduct	-4.73	
For >96 To 168, Deduct	-6.59	
For >168 To 240, Deduct	-8.02	
For >240, Deduct	-9.45	
31 05 16 00-0023 CY 1-1/2" Minus Crusher Run Aggregate Fill	40.48	
For Up To 8, Add	8.10	
For >8 To 16, Add	4.05	
For >48 To 64, Deduct	-3.02	
For >64 To 96, Deduct	-5.04	
For >96 To 168, Deduct	-7.07	
For >168 To 240, Deduct	-8.58	
For >240, Deduct	-10.09	
31 05 16 00-0024 CY 3/4" Minus Crusher Run Aggregate Fill	38.42	
For Up To 8, Add	7.68	
For >8 To 16, Add	3.84	
For >48 To 64, Deduct	-2.92	
For >64 To 96, Deduct	-4.84	
For >96 To 168, Deduct	-6.76	
For >168 To 240, Deduct	-8.22	
For >240, Deduct	-9.67	



Earthwork		31
Common Work Results for Earthwork		31 05
Aggregates for Earthwork		31 05 16

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0025 CY #20 Silica Sand For Playground Use Only.....	231.98	
For Up To 8, Add	46.40	
For >8 To 16, Add	23.20	
For >16 To 64, Deduct	-12.59	
For >64 To 96, Deduct	-24.19	
For >96 To 168, Deduct	-35.79	
For >168 To 240, Deduct	-42.09	
For >240, Deduct	-48.39	
31 05 16 00-0026 CY Graded Aggregate Base Fill (3/4" Minus) Class II Base	55.69	
For Up To 8, Add	11.14	
For >8 To 16, Add	5.57	
For >16 To 64, Deduct	-3.78	
For >64 To 96, Deduct	-6.56	
For >96 To 168, Deduct	-9.35	
For >168 To 240, Deduct	-11.24	
For >240, Deduct	-13.13	

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization⁽³¹⁾

⁰⁵⁾
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing⁽³¹⁾

31 11 Clearing and Grubbing^(31 10)

31 11 00 00-0001 Clear And Grub Roots And Stumps^(31 11)

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002	ACR Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	8,243.18
	Note: Includes grub and removal of stump	
31 11 00 00-0003	ACR Clear And Grub Light Stumps Only Up To 6" Diameter	2,587.22
31 11 00 00-0004	ACR Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	10,990.91
	Note: Includes grub and removal of stump	
31 11 00 00-0005	ACR Clear And Grub Medium Stumps Only Up To 10" Diameter	4,312.05
31 11 00 00-0006	ACR Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	15,112.50
	Note: Includes grub and removal of stump	
31 11 00 00-0007	ACR Clear And Grub Heavy Stumps Only Up To 16" Diameter	6,468.06
31 11 00 00-0008	ACR Clear And Grub Heavy Trees Up To 24" Diameter, Cut And Chip	21,981.81
	Note: Includes grub and removal of stump	
31 11 00 00-0009	ACR Clear And Grub Heavy Stumps Only Up To 24" Diameter	9,055.29
31 11 00 00-0010	ACR Clearing By Machine - Light Brush Without Grub	372.86
31 11 00 00-0011	ACR Clearing By Machine - Medium Brush Without Grub	779.00
31 11 00 00-0012	ACR Clearing By Machine - Heavy Brush Without Grub	1,105.74
31 11 00 00-0013	ACR Chipping - Light Brush	2,931.43
31 11 00 00-0014	ACR Chipping - Medium Brush	3,769.17
31 11 00 00-0015	ACR Chipping - Heavy Brush	5,277.33

31 11 00 00-0016 Loading Of Cleared And Grubbed Material^(31 11)

See CSI section 01 74 19 00-0043 for hauling.

31 11 00 00-0017	CY Machine Loading Of Cleared And Grubbed Material	13.85
31 11 00 00-0018	CY Chute Loading Of Cleared And Grubbed Material	16.62
31 11 00 00-0019	CY Hand Loading Of Cleared And Grubbed Material	43.66
31 11 00 00-0020	CY Wheel And Ramp Loading Of Cleared And Grubbed Material	34.30

31 13 Selective Tree and Shrub Removal and Trimming^(31 10)

31 13 13 Selective Tree and Shrub Removal^(31 13)

31 13 13 00-0001 Individual Tree Removal^(31 13 13)

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002	EA Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	686.94
	Note: Includes cutting up tree, chipping and loading.	
	For >4 To 10, Deduct	-41.22
	For >10 To 25, Deduct	-128.80
31 13 13 00-0003	EA >6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	1,030.39
	Note: Includes cutting up tree, chipping and loading.	
	For >4 To 10, Deduct	-61.82
	For >10 To 25, Deduct	-193.20
31 13 13 00-0004	EA >12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	1,373.86
	Note: Includes cutting up tree, chipping and loading.	
	For >4 To 10, Deduct	-82.43
	For >10 To 25, Deduct	-257.60
31 13 13 00-0005	EA >24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	2,060.80
	Note: Includes cutting up tree, chipping and loading.	
	For >4 To 10, Deduct	-123.65
	For >10 To 25, Deduct	-386.40

31 Earthwork**31 10 Site Clearing****31 13 Selective Tree and Shrub Removal and Trimming**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0006	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading. For >4 To 10, Deduct For >25, Deduct	2,747.72 -164.86 -515.20	
31 13 13 00-0007	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading. For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct For >4 To 10, Deduct For >10 To 25, Deduct For >25, Deduct	3,434.66 -858.67 -206.08 -429.33 -644.00	
31 13 13 00-0008	EA	>60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading. For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct For >4 To 10, Deduct For >10 To 25, Deduct For >25, Deduct	4,121.59 -1,030.40 -247.30 -515.20 -772.80	
31 13 13 00-0009	EA	>72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal Note: Includes cutting up tree, chipping and loading. For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct For >4 To 10, Deduct For >10 To 25, Deduct For >25, Deduct	5,495.45 -1,373.86 -329.73 -686.93 -1,030.40	
31 13 13 00-0010		Stump Removal (31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0011		Stump Removal By Machine (31 13 13 00-0010)		
31 13 13 00-0012	EA	Up To 6" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. For >10, Deduct	129.36 -19.40	
31 13 13 00-0013	EA	>6" To 12" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. For >10, Deduct	247.94 -37.19	
31 13 13 00-0014	EA	>12" To 24" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. For >10, Deduct	323.40 -48.51	
31 13 13 00-0015	EA	>24" To 36" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. For >10, Deduct	485.12 -72.77	
31 13 13 00-0016	EA	>36" To 48" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. For >10, Deduct	571.38 -85.71	
31 13 13 00-0017	EA	>48" To 60" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. For >10, Deduct	672.68 -100.90	
31 13 13 00-0018	EA	>60" To 72" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. For >10, Deduct	797.73 -119.66	
31 13 13 00-0019	EA	>72" To 84" Diameter Stump Removal Note: Includes excavation necessary to remove stump and loading. For >10, Deduct	937.87 -140.68	
31 13 13 00-0020		Stump Removal By Hand (31 13 13 00-0010)		
31 13 13 00-0021	EA	Up To 6" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	733.01	
31 13 13 00-0022	EA	>6" To 12" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	916.26	
31 13 13 00-0023	EA	>12" To 24" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,343.85	
31 13 13 00-0024	EA	>24" To 36" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,832.53	
31 13 13 00-0025	EA	>36" To 48" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,443.36	
31 13 13 00-0026	EA	>48" To 60" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,054.21	
31 13 13 00-0027	EA	>60" To 72" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,665.05	
31 13 13 00-0028	EA	>72" To 84" Diameter Stump Removal By Hand Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	4,275.89	
31 13 13 00-0029		Stump Grinding (31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0030		Stump Grinding, 18" Deep Below Surface Of Soil (31 13 13 00-0029) Note: Level soil to match existing surface area.		



Earthwork		31	15
Site Clearing		31 10	
Selective Tree and Shrub Removal and Trimming		31 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0031	EA		Stump Grinding Up To 6" Tree	128.48	
			For 24" Depth, Add	25.70	
			For >10, Deduct	-16.06	
31 13 13 00-0032	EA		Stump Grinding >6" To 12" Tree.....	160.60	
			For 24" Depth, Add	32.12	
			For >10, Deduct	-20.08	
31 13 13 00-0033	EA		Stump Grinding >12" To 15" Tree.....	192.71	
			For 24" Depth, Add	38.54	
			For >10, Deduct	-24.09	
31 13 13 00-0034	EA		Stump Grinding >15" To 18" Tree.....	214.13	
			For 24" Depth, Add	42.83	
			For >10, Deduct	-26.77	
31 13 13 00-0035	EA		Stump Grinding >18" To 21" Tree.....	230.19	
			For 24" Depth, Add	46.04	
			For >10, Deduct	-28.77	
31 13 13 00-0036	EA		Stump Grinding >21" To 24" Tree.....	246.25	
			For 24" Depth, Add	49.25	
			For >10, Deduct	-30.78	
31 13 13 00-0037	EA		Stump Grinding >24" To 27" Tree.....	267.66	
			For 24" Depth, Add	53.53	
			For >10, Deduct	-33.46	
31 13 13 00-0038	EA		Stump Grinding >27" To 30" Tree.....	290.56	
			For 24" Depth, Add	58.11	
			For >10, Deduct	-36.32	
31 13 13 00-0039	EA		Stump Grinding >30" To 33" Tree.....	322.84	
			For 24" Depth, Add	64.57	
			For >10, Deduct	-40.36	
31 13 13 00-0040	EA		Stump Grinding >33" To 36" Tree.....	355.13	
			For 24" Depth, Add	71.03	
			For >10, Deduct	-44.39	
31 13 13 00-0041	EA		Stump Grinding >36" To 42" Tree.....	387.42	
			For 24" Depth, Add	77.48	
			For >10, Deduct	-48.43	
31 13 13 00-0042	EA		Stump Grinding >42" To 48" Tree.....	430.46	
			For 24" Depth, Add	86.09	
			For >10, Deduct	-53.81	
31 13 13 00-0043	EA		Stump Grinding >48" To 60" Tree.....	538.08	
			For 24" Depth, Add	107.62	
			For >10, Deduct	-67.26	
31 13 13 00-0044	EA		Stump Grinding >60" To 72" Tree.....	672.59	
			For 24" Depth, Add	134.52	
			For >10, Deduct	-84.07	
31 13 13 00-0045	EA		Stump Grinding >72" To 84" Tree.....	860.92	
			For 24" Depth, Add	172.18	
			For >10, Deduct	-107.62	
31 13 13 00-0046			Fallen Tree Removal (31 13 13)		
			Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding. Excludes removing tree from ground.		
31 13 13 00-0047	EA		Up To 6" D.B.H. (Diameter At Breast Height) Fallen Tree Removal	549.55	
			Note: Includes cutting up tree, chipping and loading.		
			For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-137.39	
			For >4 To 10, Deduct	-32.97	
			For >10 To 25, Deduct	-68.69	
			For >25, Deduct	-103.04	
31 13 13 00-0048	EA		>6" To 12" D.B.H. (Diameter At Breast Height) Fallen Tree Removal	824.31	
			Note: Includes cutting up tree, chipping and loading.		
			For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-206.08	
			For >4 To 10, Deduct	-49.46	
			For >10 To 25, Deduct	-103.04	
			For >25, Deduct	-154.56	
31 13 13 00-0049	EA		>12" To 24" D.B.H. (Diameter At Breast Height) Fallen Tree Removal	1,099.09	
			Note: Includes cutting up tree, chipping and loading.		
			For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-274.77	
			For >4 To 10, Deduct	-65.95	
			For >10 To 25, Deduct	-137.39	
			For >25, Deduct	-206.08	
31 13 13 00-0050	EA		>24" To 36" D.B.H. (Diameter At Breast Height) Fallen Tree Removal	1,648.64	
			Note: Includes cutting up tree, chipping and loading.		
			For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-412.16	
			For >4 To 10, Deduct	-98.92	
			For >10 To 25, Deduct	-206.08	
			For >25, Deduct	-309.12	
31 13 13 00-0051	EA		>36" To 48" D.B.H. (Diameter At Breast Height) Fallen Tree Removal	2,198.19	
			Note: Includes cutting up tree, chipping and loading.		
			For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-549.55	
			For >4 To 10, Deduct	-131.89	
			For >10 To 25, Deduct	-274.77	
			For >25, Deduct	-412.16	

31	Earthwork
31 10	Site Clearing
31 13	Selective Tree and Shrub Removal and Trimming



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0052	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Fallen Tree Removal Note: Includes cutting up tree, chipping and loading. For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct For >4 To 10, Deduct For >10 To 25, Deduct For >25, Deduct	2,747.72 -686.93 -164.86 -343.47 -515.20	
31 13 16		Selective Tree and Shrub Trimming ^(31 13) See CSI section 32 01 90 23-0000 for tree pruning.		
31 13 16 00-0001		Tree Trimming For Pole Line Construction And Maintenance ^(31 13 16) Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.		
31 13 16 00-0002	LF	Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	2.20	
31 13 16 00-0003	LF	Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	3.30	
31 13 16 00-0004	LF	Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction.....	3.89	
31 13 16 00-0005		Tree Branch Trimming And Removal For Maintenance Along Building Or Structure ^(31 13 16) Note: Includes pick-up and placement of cut branches into chipper for removal. Excludes transportation from site or disposal fee. See CSI section 01 22 23 00-0105 for bucket truck where required for additional height.		
31 13 16 00-0006	EA	Minimum Charge For Trim Tree Branch	803.37	
31 13 16 00-0007	EA	Up To 1" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	20.09	
31 13 16 00-0008	EA	>1" To 2" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	22.60	
31 13 16 00-0009	EA	>2" To 3" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	27.62	
31 13 16 00-0010	EA	Up To 1" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	25.11	
31 13 16 00-0011	EA	>1" To 2" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	28.25	
31 13 16 00-0012	EA	>2" To 3" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	34.52	
31 20		Earth Moving ⁽³¹⁾ Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in digger or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.		
31 22		Grading ^(31 20)		
31 22 13		Rough Grading ^(31 22) See CSI section 31 23 16 00-0000 for rough grading.		
31 22 16		Fine Grading ^(31 22)		
31 22 16 13		Roadway Subgrade Reshaping ^(31 22 16) See CSI section 31 23 16 00-0000 for bulk shaping and grading, 31 24 13 00-0000 for roadway shaping and grading.		
31 22 19		Finish Grading ^(31 22)		
31 22 19 13		Spreading and Grading Topsoil ^(31 22 19)		
31 22 19 13-0001		Site Grading For Areas Outside Of Structures And Slabs ^(31 22 19 13) Note: Use of bobcat type equipment or hand for finish grading for positive drainage.		
31 22 19 13-0002		Hand Digging And Grading ^(31 22 19 13-0001)		
31 22 19 13-0003	SF	Trim And Shape Machine Excavated Area By Hand Finish Grade	1.20	
31 22 19 13-0004	SF	Trim And Shape Area On Grade By Hand, Finish Grade.....	1.10	
31 22 19 13-0005	SF	Fine Grade Gravel Bedding By Hand Finish Grade	1.14	
31 22 19 13-0006	SF	Fine Grade Gravel By Hand Finish Grade	0.95	
31 22 19 13-0007		Machine Operations ^(31 22 19 13-0001)		
31 22 19 13-0008		Machine Operations With Grader ^(31 22 19 13-0007)		
31 22 19 13-0009	CSY	Semi-Grade, 2 Passes With Grader	480.77	
31 22 19 13-0010	CSY	Fine Grade, 3 Passes With Grader	667.73	



	Earthwork	31	15
	Earth Moving	31 20	
	Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 23 Excavation and Fill (31 20)

31 23 16 Excavation (31 23)

31 23 16 13 Trenching (31 23 16)

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001 Excavation For Trenching By Machine (31 23 16 13)

Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0002	CY	12" Wide or Less, Excavation for Trenching by Machine in Soil	12.67	
		For Excavation In Light Material (Class A), Deduct	-1.58	
		For Excavation In Heavy/Wet Material (Class C), Add	5.07	
		For Up To 20, Add	12.67	
		For >20 To 50, Add	9.50	
		For >50 To 250, Add	5.07	
		For >250 To 500, Add	1.90	
		For >1,000, Deduct	-1.90	
31 23 16 13-0003	CY	Over 12" Wide, Excavation for Trenching by Machine in Soil	8.22	
		For Excavation In Light Material (Class A), Deduct	-1.03	
		For Excavation In Heavy/Wet Material (Class C), Add	3.29	
		For Up To 20, Add	8.22	
		For >20 To 50, Add	6.17	
		For >50 To 250, Add	3.29	
		For >250 To 500, Add	1.23	
		For >1,000, Deduct	-1.23	
31 23 16 13-0004	CY	12" Wide or Less, Excavation for Trenching by Machine in Loose Rock	20.97	
		Note: Includes compacted aggregate		
		For Up To 20, Add	20.97	
		For >20 To 50, Add	15.73	
		For >50 To 250, Add	8.39	
		For >250 To 500, Add	3.15	
		For >1,000, Deduct	-3.15	
31 23 16 13-0005	CY	Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	14.61	
		Note: Includes compacted aggregate		
		For Up To 20, Add	14.61	
		For >20 To 50, Add	10.96	
		For >50 To 250, Add	5.84	
		For >250 To 500, Add	2.19	
		For >1,000, Deduct	-2.19	

31 23 16 13-0006 Excavation For Trenching By Hand (31 23 16 13)

31 23 16 13-0007	CY	Excavation For Trenching By Hand In Soil	144.07	
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0008	CY	Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate	247.13	
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 13-0009	SF	Trim Bottom Of Excavation Hand Labor	1.12	
		Note: For use with machine excavation.		
31 23 16 13-0010	SF	Trim Slopes/Sides Of Excavation Hand Labor	1.29	
		Note: For use with machine excavation.		

31 23 16 13-0011 Backfilling Or Placing Subbase For Trenches (31 23 16 13)

Note: With imported or stockpiled materials.

31 23 16 13-0012	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	4.67	
		For Up To 20, Add	4.67	
		For >20 To 50, Add	3.50	
		For >50 To 250, Add	1.87	
		For >250 To 500, Add	0.70	
		For >1,000, Deduct	-0.70	
31 23 16 13-0013	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand	40.02	

31 23 16 13-0014 Compaction Of Fill Or Subbase For Trenches (31 23 16 13)

Note: Includes restoration of final grade.

31 23 16 13-0015	CY	Compaction of Fill or Subbase for Trenches by Hand Machine; Vibratory Plate, Jumping Jack, Air Tamper, etc.	8.36	
		For Up To 20, Add	8.36	
		For >20 To 50, Add	6.27	
		For >50 To 250, Add	3.34	
		For >250 To 500, Add	1.25	
		For >1,000, Deduct	-1.25	
31 23 16 13-0016	CY	Compaction of Fill or Subbase for Trenches by Hand	45.15	

31 23 16 13-0017 Loading Excess Material For Removal From Excavation For Trenches (31 23 16 13)

Note: Includes handwork by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0043 for hauling.

31 23 16 13-0018	CY	Load Excess Material by Machine for Removal from Excavation for Trenching	8.13	
		For Up To 20, Add	8.13	
		For >20 To 50, Add	6.10	
		For >50 To 250, Add	3.25	
		For >250 To 500, Add	1.22	
		For >1,000, Deduct	-1.22	

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0019	CY	Load Excess Material by Hand for Removal from Excavation for Trenching	105.65	
31 23 16 13-0020		Spread Excess Or Imported Material For Trenches (31 23 16 13) Note: Includes hand work by laborer for cleanup.		
31 23 16 13-0021	CY	Spread Excess Or Imported Material On Site With Machine	4.06	
		For Up To 20, Add	4.06	
		For >20 To 50, Add	3.05	
		For >50 To 250, Add	1.62	
		For >250 To 500, Add	0.61	
		For >1,000, Deduct	-0.61	
31 23 16 13-0022		Direct Burial (Plowed-in) Cable Or Piping By Machine (31 23 16 13) Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0023	LF	Direct Burial of Cable or Piping up to 12" Deep	2.90	
31 23 16 13-0024	LF	Direct Burial of Cable or Piping >12" to 24" Deep	3.20	
31 23 16 13-0025	LF	Direct Burial of Cable or Piping >24" to 36" Deep	4.55	
31 23 16 13-0026	LF	Direct Burial of Cable or Piping >36" to 48" Deep	5.14	
31 23 16 13-0027		Utility Chain Trencher (31 23 16 13)		
31 23 16 13-0028		Utility Trench, Chain Trencher (31 23 16 13-0027) Note: Earth left adjacent to trench.		
31 23 16 13-0029	LF	4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.58	
		For >100 To 250, Deduct	-0.11	
		For >250 To 500, Deduct	-0.24	
		For >500, Deduct	-0.47	
31 23 16 13-0030	LF	4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.73	
		For >100 To 250, Deduct	-0.12	
		For >250 To 500, Deduct	-0.26	
		For >500, Deduct	-0.52	
31 23 16 13-0031	LF	4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.80	
		For >100 To 250, Deduct	-0.13	
		For >250 To 500, Deduct	-0.27	
		For >500, Deduct	-0.54	
31 23 16 13-0032	LF	6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.89	
		For >100 To 250, Deduct	-0.13	
		For >250 To 500, Deduct	-0.28	
		For >500, Deduct	-0.57	
31 23 16 13-0033	LF	6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	2.08	
		For >100 To 250, Deduct	-0.15	
		For >250 To 500, Deduct	-0.31	
		For >500, Deduct	-0.62	
31 23 16 13-0034	LF	6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.37	
		For >100 To 250, Deduct	-0.17	
		For >250 To 500, Deduct	-0.36	
		For >500, Deduct	-0.71	
31 23 16 13-0035	LF	6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.84	
		For >100 To 250, Deduct	-0.20	
		For >250 To 500, Deduct	-0.43	
		For >500, Deduct	-0.85	
31 23 16 13-0036	LF	8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	2.69	
		For >100 To 250, Deduct	-0.19	
		For >250 To 500, Deduct	-0.40	
		For >500, Deduct	-0.81	
31 23 16 13-0037	LF	8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	3.15	
		For >100 To 250, Deduct	-0.22	
		For >250 To 500, Deduct	-0.47	
		For >500, Deduct	-0.95	
31 23 16 13-0038	LF	8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	3.58	
		For >100 To 250, Deduct	-0.25	
		For >250 To 500, Deduct	-0.54	
		For >500, Deduct	-1.07	
31 23 16 13-0039	LF	8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	4.26	
		For >100 To 250, Deduct	-0.30	
		For >250 To 500, Deduct	-0.64	
		For >500, Deduct	-1.28	
31 23 16 13-0040		Backfill Trenches With Compaction (31 23 16 13-0027)		
31 23 16 13-0041	LF	Backfill 4" Wide, 12" Deep Trench, With Compaction	0.25	
		For >100 To 250, Deduct	-0.02	
		For >250 To 500, Deduct	-0.04	
		For >500, Deduct	-0.08	
31 23 16 13-0042	LF	Backfill 4" Wide, 18" Deep Trench, With Compaction	0.39	
		For >100 To 250, Deduct	-0.03	
		For >250 To 500, Deduct	-0.06	
		For >500, Deduct	-0.12	
31 23 16 13-0043	LF	Backfill 4" Wide, 24" Deep Trench, With Compaction	0.51	
		For >100 To 250, Deduct	-0.04	
		For >250 To 500, Deduct	-0.08	
		For >500, Deduct	-0.15	



	Earthwork	31	15
	Earth Moving	31 20	
	Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0044 LF Backfill 6" Wide, 12" Deep Trench, With Compaction.....	0.39	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.12	
31 23 16 13-0045 LF Backfill 6" Wide, 18" Deep Trench, With Compaction.....	0.51	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.08	
For >500, Deduct	-0.15	
31 23 16 13-0046 LF Backfill 6" Wide, 24" Deep Trench, With Compaction.....	0.77	
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.12	
For >500, Deduct	-0.23	
31 23 16 13-0047 LF Backfill 6" Wide, 36" Deep Trench, With Compaction.....	1.10	
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.17	
For >500, Deduct	-0.33	
31 23 16 13-0048 LF Backfill 8" Wide, 12" Deep Trench, With Compaction.....	0.51	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.08	
For >500, Deduct	-0.15	
31 23 16 13-0049 LF Backfill 8" Wide, 18" Deep Trench, With Compaction.....	0.77	
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.12	
For >500, Deduct	-0.23	
31 23 16 13-0050 LF Backfill 8" Wide, 24" Deep Trench, With Compaction.....	1.03	
For >100 To 250, Deduct	-0.07	
For >250 To 500, Deduct	-0.15	
For >500, Deduct	-0.31	
31 23 16 13-0051 LF Backfill 8" Wide, 36" Deep Trench, With Compaction.....	1.54	
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.23	
For >500, Deduct	-0.46	

31 23 16 16 Structural Excavation for Minor Structures (31 23 16)

31 23 16 16-0001 Post Holes (31 23 16 16)
Note: Excludes spreading of excess material on site or loading and removal of excavated material from site.

31 23 16 16-0002 Drilling Post Hole In Soil (31 23 16 16-0001)	
Note: Auger by machine unless otherwise notified by owner.	
31 23 16 16-0003 VLF Up To 2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	10.97
31 23 16 16-0004 VLF 2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	12.34
31 23 16 16-0005 VLF 3" Diameter Hole, Auger By Machine Post Hole In Soil	14.62
31 23 16 16-0006 VLF 4" Diameter Hole, Auger By Machine Post Hole In Soil	16.45
31 23 16 16-0007 VLF 6" Diameter Hole, Auger By Machine Post Hole In Soil	17.95
31 23 16 16-0008 VLF 8" Diameter Hole, Auger By Machine Post Hole In Soil	19.75
31 23 16 16-0009 VLF 10" Diameter Hole, Auger By Machine Post Hole In Soil	21.94
31 23 16 16-0010 VLF 12" Diameter Hole, Auger By Machine Post Hole In Soil	24.68
31 23 16 16-0011 VLF 18" Diameter Hole, Auger By Machine Post Hole In Soil	28.21
31 23 16 16-0012 VLF 24" Diameter Hole, Auger By Machine Post Hole In Soil	32.91
31 23 16 16-0013 VLF 30" Diameter Hole, Auger By Machine Post Hole In Soil	39.49
31 23 16 16-0014 VLF 36" Diameter Hole, Auger By Machine Post Hole In Soil	49.36

31 23 16 16-0015 Drilling Post Hole In Rock (31 23 16 16-0001)	
31 23 16 16-0016 CF Jackhammer Post Hole, Rock.....	81.54
31 23 16 16-0017 CF Rock Drill Post Hole, Rock.....	23.72

31 23 16 16-0018 Post Hole Fill (31 23 16 16-0001)

31 23 16 16-0019 Concrete Fill (31 23 16 16-0018)	
31 23 16 16-0020 VLF Concrete Fill, Up To 2-1/2" Diameter Hole	6.36
31 23 16 16-0021 VLF Concrete Fill, 2-1/2" Diameter Hole	8.17
31 23 16 16-0022 VLF Concrete Fill, 3" Diameter Hole	9.00
31 23 16 16-0023 VLF Concrete Fill, 4" Diameter Hole	10.34
31 23 16 16-0024 VLF Concrete Fill, 6" Diameter Hole	14.59
31 23 16 16-0025 VLF Concrete Fill, 8" Diameter Hole	19.47
31 23 16 16-0026 VLF Concrete Fill, 10" Diameter Hole	23.81
31 23 16 16-0027 VLF Concrete Fill, 12" Diameter Hole	27.76
31 23 16 16-0028 VLF Concrete Fill, 18" Diameter Hole	37.82
31 23 16 16-0029 VLF Concrete Fill, 24" Diameter Hole	46.92
31 23 16 16-0030 VLF Concrete Fill, 30" Diameter Hole	55.80
31 23 16 16-0031 VLF Concrete Fill, 36" Diameter Hole	65.01

31 23 16 16-0032 Grout Fill (31 23 16 16-0018)	
31 23 16 16-0033 VLF Grout Fill, Up To 2-1/2" Diameter Hole	7.54
31 23 16 16-0034 VLF Grout Fill, 2-1/2" Diameter Hole	9.71
31 23 16 16-0035 VLF Grout Fill, 3" Diameter Hole	10.57
31 23 16 16-0036 VLF Grout Fill, 4" Diameter Hole	11.89
31 23 16 16-0037 VLF Grout Fill, 6" Diameter Hole	16.61
31 23 16 16-0038 VLF Grout Fill, 8" Diameter Hole	22.16

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 16-0039	VLF	Grout Fill, 10" Diameter Hole	27.00	
31 23 16 16-0040	VLF	Grout Fill, 12" Diameter Hole	31.34	
31 23 16 16-0041	VLF	Grout Fill, 18" Diameter Hole	41.90	
31 23 16 16-0042	VLF	Grout Fill, 24" Diameter Hole	51.21	
31 23 16 16-0043	VLF	Grout Fill, 30" Diameter Hole	60.20	
31 23 16 16-0044	VLF	Grout Fill, 36" Diameter Hole	69.43	
31 23 16 16-0045		Earth Fill, Compacted (31 23 16 16-0018)		
31 23 16 16-0046	VLF	Earth Fill, Up To 2-1/2" Diameter Hole.....	5.34	
31 23 16 16-0047	VLF	Earth Fill, 2-1/2" Diameter Hole	6.96	
31 23 16 16-0048	VLF	Earth Fill, 3" Diameter Hole.....	7.27	
31 23 16 16-0049	VLF	Earth Fill, 4" Diameter Hole.....	7.49	
31 23 16 16-0050	VLF	Earth Fill, 6" Diameter Hole.....	10.01	
31 23 16 16-0051	VLF	Earth Fill, 8" Diameter Hole.....	13.34	
31 23 16 16-0052	VLF	Earth Fill, 10" Diameter Hole.....	16.01	
31 23 16 16-0053	VLF	Earth Fill, 12" Diameter Hole.....	18.15	
31 23 16 16-0054	VLF	Earth Fill, 18" Diameter Hole.....	22.11	
31 23 16 16-0055	VLF	Earth Fill, 24" Diameter Hole.....	24.82	
31 23 16 16-0056	VLF	Earth Fill, 30" Diameter Hole.....	27.21	
31 23 16 16-0057	VLF	Earth Fill, 36" Diameter Hole.....	29.36	
31 23 16 26		Rock Removal (31 23 16)		
31 23 16 26-0001		Rock Breaking By Machine (31 23 16 26)		
		Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002	CY	Rock Breaking By Machine, Soft Sedimentary (Shale, Sandstone, Limestone) Rocks	32.50	
31 23 16 26-0003	CY	Rock Breaking By Machine, Medium Metamorphic (Slate) Rock.....	34.67	
31 23 16 26-0004	CY	Rock Breaking By Machine, Hard Igneous (Granite, Basalt) Rock	41.17	
31 23 16 33		Bulk Excavation (31 23 16)		
		Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for less than 500 CY excavation.		
31 23 16 33-0001		Excavation (31 23 16 33)		
		Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002	CY	Bulk Excavation by Dozer in Soil	12.70	
		For Excavation In Light Material (Class A), Deduct	-1.59	
		For Excavation In Heavy/Wet Material (Class C), Add	5.08	
		For >1,000, Deduct	-1.91	
31 23 16 33-0003	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	6.63	
		For Excavation In Light Material (Class A), Deduct	-0.83	
		For Excavation In Heavy/Wet Material (Class C), Add	2.65	
		For >1,000, Deduct	-0.99	
31 23 16 33-0004	CY	Bulk Excavation by Dozer in Loose Rock	15.62	
		Note: Includes compacted aggregate		
		For >1,000, Deduct	-2.34	
31 23 16 33-0005	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock	8.17	
		Note: Includes compacted aggregate		
		For >1,000, Deduct	-1.23	
31 23 16 33-0006		Spreading, Shaping And Rough Grading (31 23 16 33)		
		Note: Imported or stockpiled material for bulk excavation.		
31 23 16 33-0007	CY	Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine	7.84	
		For >1,000, Deduct	-1.18	
31 23 16 33-0008		Cutting, Shaping and Rough Grading Of Existing Elevations (31 23 16 33)		
31 23 16 33-0009	CY	Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine	8.70	
		For >1,000, Deduct	-1.31	
31 23 16 33-0010		Relocating On Site Excavated Material From Excavation (31 23 16 33)		
		Note: For bulk excavation.		
31 23 16 33-0011	CY	Relocating On Site Excavated Material From Bulk Excavation >100' to 300'	6.97	
		For >1,000, Deduct	-1.05	
31 23 16 33-0012	CY	Relocating On Site Excavated Material From Bulk Excavation >300' to 500'	10.45	
		For >1,000, Deduct	-1.57	
31 23 16 33-0013	CY	Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000'	15.67	
		For >1,000, Deduct	-2.35	
31 23 16 33-0014	CY	Relocating On Site Excavated Material From Bulk Excavation >1,000'	20.90	
		For >1,000, Deduct	-3.14	
31 23 16 33-0015		Finish Grading For Bulk Excavation (31 23 16 33)		
31 23 16 33-0016	SY	Finish Grading for Bulk Excavation by Machine.....	0.87	
31 23 16 33-0017		Compaction Of Fill Or Subbase, Per Lift (31 23 16 33)		
		Note: For bulk excavation. See CSI section 31 23 23 23-0001 for compaction water.		



	Earthwork	31	
	Earth Moving	31 20	
	Excavation and Fill	31 23	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0018	SY	Compaction of Fill or Subbase for Bulk Excavation by Machine Note: Per Lift	0.84	
31 23 16 33-0019		Loading Excess Material For Removal From Excavation (31 23 16 33) Note: For bulk excavation. Includes handwork by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0043 for hauling.		
31 23 16 33-0020	CY	Loading Excess Material For Removal From Bulk Excavation For >1,000, Deduct	6.83 -1.02	
31 23 16 36		Excavation for Building Foundations and Other Structures (31 23 16) Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001		Excavation (31 23 16 36) Note: For building foundations and other structures by machine. Includes stockpiling of excess materials on ground in reach of excavated area.		
31 23 16 36-0002		Excavation For Building Foundations And Other Structures By Skid-Steer Loader (31 23 16 36-0001)		
31 23 16 36-0003	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	10.86 -1.36 4.34 10.86 8.15 4.34 1.63	
31 23 16 36-0004	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock Note: Includes compacted aggregate For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	13.47 13.47 10.10 5.39 2.02	
31 23 16 36-0005		Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader (31 23 16 36-0001)		
31 23 16 36-0006	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	7.97 -1.00 3.19 7.97 5.98 3.19 1.20	
31 23 16 36-0007	CY	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock Note: Includes compacted aggregate For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	9.48 9.48 7.11 3.79 1.42	
31 23 16 36-0008		Excavation For Building Foundations And Other Structures By Hand (31 23 16 36- 0001) Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009	CY	Excavation For Building Foundations And Other Structures By Hand in Soil For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add	144.07 -18.01 57.63	
31 23 16 36-0010	CY	Excavation For Building Foundations And Other Structures By Hand in Loose Rock..... Note: Includes compacted aggregate	247.13	
31 23 16 36-0011		Relocating On Site Excavated Stockpiled Material From Excavation (31 23 16 36) Note: For building foundations and other structures.		
31 23 16 36-0012	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >100' to 300' For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	6.97 6.97 5.23 2.79 1.05	
31 23 16 36-0013	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >300' to 500' For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	10.45 10.45 7.84 4.18 1.57	
31 23 16 36-0014	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >500' to 1,000' For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	15.67 15.67 11.75 6.27 2.35	

31	Earthwork
31 20	Earth Moving
31 23	Excavation and Fill



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0015	CY	Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >1,000'	20.90	
		For Up To 20, Add	20.90	
		For >20 To 50, Add	15.68	
		For >50 To 250, Add	8.36	
		For >250 To 500, Add	3.14	
31 23 16 36-0016		Backfilling (31 23 16 36) Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading each backfill lift.		
31 23 16 36-0017	CY	Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader	5.35	
		For Up To 20, Add	5.35	
		For >20 To 50, Add	4.01	
		For >50 To 250, Add	2.14	
		For >250 To 500, Add	0.80	
31 23 16 36-0018	CY	Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader	6.17	
		For Up To 20, Add	6.17	
		For >20 To 50, Add	4.63	
		For >50 To 250, Add	2.47	
		For >250 To 500, Add	0.93	
31 23 16 36-0019	CY	Backfilling Around Building Foundations And Other Structures By Hand	68.60	
31 23 16 36-0020		Compaction Of Fill Or Subbase (31 23 16 36) Note: For building foundations and other structures. See CSI section 31 23 23-0001 for compaction water.		
31 23 16 36-0021	CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, etc.	13.24	
		For Up To 20, Add	13.24	
		For >20 To 50, Add	9.93	
		For >50 To 250, Add	5.30	
		For >250 To 500, Add	1.99	
31 23 16 36-0022	CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	45.14	
31 23 16 36-0023		Grading For Building Foundations And Other Structures (31 23 16 36)		
31 23 16 36-0024	SY	Rough Grading For Building Foundations And Other Structures by Machine	1.50	
31 23 16 36-0025	SY	Finish Grading For Building Foundations And Other Structures by Machine	2.42	
31 23 16 36-0026	SY	Finish Grading For Building Foundations And Other Structures by Hand	13.35	
31 23 16 36-0027		Loading Excess Material For Removal From Excavation (31 23 16 36) Note: For building foundations and other structures. Includes handwork by laborer for cleanup. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0043 for hauling.		
31 23 16 36-0028	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	7.12	
		For Up To 20, Add	7.12	
		For >20 To 50, Add	5.34	
		For >50 To 250, Add	2.85	
		For >250 To 500, Add	1.07	
31 23 16 36-0029	CY	Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	105.65	
31 23 16 36-0030		Spread Excess Or Imported Material And Grade On Site (31 23 16 36) Note: For building foundations and other structures.		
31 23 16 36-0031	CY	Spread Excess Or Imported Material And Rough Grade On Site By Machine	4.06	
		For Up To 20, Add	4.06	
		For >20 To 50, Add	3.05	
		For >50 To 250, Add	1.62	
		For >250 To 500, Add	0.61	
31 23 16 36-0032	CY	Spread Excess Or Imported Material And Rough Grade On Site By Hand	58.30	
31 23 19		Dewatering (31 23)		
31 23 19 00-0001		Well Point Dewatering System (31 23 19)		
31 23 19 00-0002		Delivery, Installation And Removal Cost (31 23 19 00-0001) Note: Priced by linear foot of header used.		
31 23 19 00-0003	LF	Up To 100' In Length Well Point System Delivery, Installation And Removal	149.67	
31 23 19 00-0004	LF	>100' To 250' In Length Well Point System Delivery, Installation And Removal	82.32	
31 23 19 00-0005	LF	>250' To 500' In Length Well Point System Delivery, Installation And Removal	74.84	
31 23 19 00-0006	LF	>500' To 1,000' In Length Well Point System Delivery, Installation And Removal	67.35	
31 23 19 00-0007	LF	>1,000' In Length Well Point System Delivery, Installation And Removal	59.86	
31 23 19 00-0008	LF	>1,000' In Length Well Point System Delivery, Installation And Removal	52.39	



	Earthwork	31	
	Earth Moving	31 20	
	Excavation and Fill	31 23	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 19 00-0009 Well Point Dewatering System Rental (31 23 19 00-0001) Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200' of header for four days - quantity should be 200'x4 or 800'). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.		
31 23 19 00-0010 LFD Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	2.35	
For >5 Days And <1 Month, Deduct	-0.52	
For >1 Month, Deduct	-0.66	
31 23 19 00-0011 LFD >100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.37	
For >5 Days And <1 Month, Deduct	-0.30	
For >1 Month, Deduct	-0.38	
31 23 19 00-0012 LFD >250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	0.98	
For >5 Days And <1 Month, Deduct	-0.22	
For >1 Month, Deduct	-0.27	
31 23 19 00-0013 LFD >500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.72	
For >5 Days And <1 Month, Deduct	-0.16	
For >1 Month, Deduct	-0.20	
31 23 19 00-0014 LFD >1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.65	
For >5 Days And <1 Month, Deduct	-0.14	
For >1 Month, Deduct	-0.18	
31 23 19 00-0015 Well Point Dewatering System Operation Costs (31 23 19 00-0001) Note: The quantity for operation shall be the total number of hours the well point system is operational.		
31 23 19 00-0016 HR Operation Costs	137.99	
31 23 23 Fill (31 23)		
31 23 23 23 Compaction (31 23 23)		
31 23 23 23-0001 Compaction Water, Water Truck And Operator (31 23 23 23)		
31 23 23 23-0002 MGL Compaction Water, Water Truck And Operator	312.37	
Note: Use this task in situations where earth fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per each 1,000 gallons of water)		
31 23 23 33 Flowable Fill (31 23 23)		
31 23 23 33-0001 Flowable Fill (Fly Ash) Cement Backfill For Trenches (31 23 23 33) Note: Includes compaction and restoration of final grade.		
31 23 23 33-0002 CY Flowable Fill (Fly Ash) Cement Backfill for Trenches	150.02	
For Up To 20, Add	62.32	
For >20 To 50, Add	40.39	
For >50 To 250, Add	20.20	
For >500 To 1,000, Deduct	-10.96	
For >1,000, Deduct	-21.93	
31 24 Embankments (31 20)		
31 24 13 Roadway Embankments (31 24)		
31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13) Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.		
31 24 13 00-0002 Cutting, Shaping And Rough Grading (31 24 13 00-0001) Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.		
31 24 13 00-0003 Cutting, Shaping, And Rough Grading (31 24 13 00-0002)		
31 24 13 00-0004 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil	8.70	
For Up To 20, Add	8.70	
For >20 To 50, Add	6.53	
For >50 To 250, Add	3.48	
For >250 To 500, Add	1.31	
For >1,000, Deduct	-1.31	
31 24 13 00-0005 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock	10.80	
Note: Includes compacted aggregate		
For Up To 20, Add	10.80	
For >20 To 50, Add	8.10	
For >50 To 250, Add	4.32	
For >250 To 500, Add	1.62	
For >1,000, Deduct	-1.62	
31 24 13 00-0006 Cutting, Shaping, And Rough Grading By Hand (31 24 13 00-0002)		

31	Earthwork
31 20	Earth Moving
31 24	Embankments



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0007	SY	Shape Embankment/Slope By Hand Up To 1 On 4 Slope		7.38	
31 24 13 00-0008	SY	Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope		9.61	
31 24 13 00-0009		Scarify Soil (31 24 13 00-0001)			
		Note: For roadways, parking areas, landscaping and embankments by machine.			
31 24 13 00-0010	CSF	Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine		8.06	
		For Up To 20, Add		4.03	
		For >20 To 50, Add		2.02	
		For >250 To 500, Deduct		-0.81	
		For >500, Deduct		-1.61	
31 24 13 00-0011		Relocating On Site Excavated Material (31 24 13 00-0001)			
31 24 13 00-0012	CY	>500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine		15.67	
		For Up To 20, Add		15.67	
		For >20 To 50, Add		11.75	
		For >50 To 250, Add		6.27	
		For >250 To 500, Add		2.35	
		For >1,000, Deduct		-2.35	
31 24 13 00-0013	CY	>1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine		20.90	
		For Up To 20, Add		20.90	
		For >20 To 50, Add		15.68	
		For >50 To 250, Add		8.36	
		For >250 To 500, Add		3.14	
		For >1,000, Deduct		-3.14	
31 24 13 00-0014		Spread And Shape Imported Or Stockpiled Material (31 24 13 00-0001)			
		Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.			
31 24 13 00-0015	CY	Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping And Embankments By Machine		9.58	
		For Up To 20, Add		9.58	
		For >20 To 50, Add		7.19	
		For >50 To 250, Add		3.83	
		For >250 To 500, Add		1.44	
		For >1,000, Deduct		-1.44	
31 24 13 00-0016		Grading (31 24 13 00-0001)			
		Note: For roadways, parking areas, landscaping and embankments by machine.			
31 24 13 00-0017	SY	Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine		0.91	
31 24 13 00-0018	SY	Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine		1.22	
31 24 13 00-0019	LF	Finish Grade For Curb		1.37	
31 24 13 00-0020	LF	Finish Grade For Curb And Gutter		1.67	
31 24 13 00-0021		Compaction Of Fill Or Subbase (31 24 13 00-0001)			
		Note: For roadways, parking areas, landscaping and embankments by machine, per lift.			
31 24 13 00-0022	SY	Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift		0.84	
		For Up To 250, Add		0.84	
		For >250 To 500, Add		0.63	
		For >500 To 1,000, Add		0.34	
		For >5,000, Deduct		-0.13	
31 24 13 00-0023		Loading Excess Material For Removal From Excavation (31 24 13 00-0001)			
		Note: For roadways, parking areas, landscaping and embankments by machine. Includes handwork by laborer for cleanup.			
31 24 13 00-0024	CY	Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine		6.83	
		For Up To 20, Add		6.83	
		For >20 To 50, Add		5.12	
		For >50 To 250, Add		2.73	
		For >250 To 500, Add		1.02	
		For >1,000, Deduct		-1.02	
31 25 Erosion and Sedimentation Controls		(31 20)			
31 25 14 Stabilization Measures for Erosion and Sedimentation Control		(31 25)			
31 25 14 13 Hydraulically-Applied Erosion Control		(31 25 14)			
31 25 14 13-0001 Bonded Fiber Matrix		(31 25 14 13)			
31 25 14 13-0002	MSF	Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied		67.99	
31 25 14 13-0003	MSF	>25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied		62.32	
31 25 14 13-0004	MSF	>50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied		57.52	
31 25 14 13-0005	MSF	>100,000 Bonded Fiber Matrix, Hydraulically Applied		54.78	



	Earthwork	31	15
	Earth Moving	31 20	
	Erosion and Sedimentation Controls	31 25	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 16 Rolled Erosion Control Mats and Blankets (31 25 14)				
Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.				
31 25 14 16-0001		Erosion Control Blankets And Turf Reinforcement Mats (31 25 14 16)		
31 25 14 16-0002		Erosion Control Blankets, Short Term, Light Duty (31 25 14 16-0001)		
31 25 14 16-0003	SY	S75 Single Net Erosion Control Blanket Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.	3.63	
31 25 14 16-0004	SY	S75BN Single Net Erosion Control Blanket Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.	4.72	
31 25 14 16-0005	SY	Curlex 1, Single Net Erosion Control Blanket Note: As manufactured by American Excelsior	3.43	
31 25 14 16-0006	SY	Curlex 1, Single Net Erosion Control Blanket Note: As manufactured by American Green.	3.63	
31 25 14 16-0007	SY	Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting.....	3.20	
31 25 14 16-0008		Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)		
31 25 14 16-0009	SY	S150 Double Net Erosion Control Blanket Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.	4.69	
31 25 14 16-0010	SY	S150 BN Double Net Erosion Control Blanket Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.	6.41	
31 25 14 16-0011	SY	Curlex II, Double Net Erosion Control Blanket, Natural Note: As manufactured by American Excelsior.	3.88	
31 25 14 16-0012	SY	Curlex II, Double Net Erosion Control Blanket, Green Note: As manufactured by American Excelsior.	4.07	
31 25 14 16-0013	SY	Enforcer Double Net Erosion Control Blanket..... Note: As manufactured by American Excelsior.	4.35	
31 25 14 16-0014		Turf Reinforcement Mats (TRM) (31 25 14 16-0001)		
Note: Permanent, UV stabilized.				
31 25 14 16-0015	SY	P300 Permanent Polypropylene Turf Reinforcement Mat..... Note: 100% synthetic, UV stabilized, two layer netting.	15.45	
31 25 14 16-0016	SY	C350 Permanent Turf Reinforcement Mat Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.	14.21	
31 25 14 16-0017	SY	Recyclex TRM, Permanent Turf Reinforcement Mat Note: As manufactured by American Excelsior, 100% recycled	19.55	
31 25 14 16-0018		Jute Mesh Erosion Control Blankets (31 25 14 16-0001)		
31 25 14 16-0019	SY	Jute Mesh, Open Uniform Weave.....	4.88	
31 25 14 16-0020		Revegetation Mat (31 25 14 16-0001)		
31 25 14 16-0021	SY	3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber..... Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.	12.03	
31 25 14 16-0022	SY	Webbed Revegetation Mat, Polypropylene Fiber..... Note: Polypropylene fibers positioned between two high strength biaxial oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.	17.23	
31 25 14 16-0023		Erosion Control Rolls (31 25 14 16-0001)		
31 25 14 16-0024	SY	Erosion Control Rolls, Mirafi 140N.....	2.55	
31 25 14 16-0025	SY	Erosion Control Rolls, Amoco 4547	2.61	
31 25 14 23		Stabilization Measures for Erosion Control (31 25 14)		
See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.				
31 25 14 23-0001		Sand Bags (31 25 14 23)		
Note: Bags filled on site with delivered material. Includes material and placement of bags.				
31 25 14 23-0002	BAG	50 Lb. Capacity Sand Bag With Sand.....	7.22	3.03
		For >2,500 To 5,000, Deduct	-0.61	
		For >5,000, Deduct	-1.33	
31 25 14 23-0003	BAG	75 Lb. Capacity Sand Bag With Sand.....	9.32	3.78
		For >2,500 To 5,000, Deduct	-0.75	
		For >5,000, Deduct	-1.69	
31 25 14 23-0004	BAG	100 Lb. Capacity Sand Bag With Sand.....	11.75	4.51
		For >2,500 To 5,000, Deduct	-0.90	
		For >5,000, Deduct	-2.08	
31 25 14 23-0005	BAG	125 Lb. Capacity Sand Bag With Sand.....	14.46	5.64
		For >2,500 To 5,000, Deduct	-1.13	
		For >5,000, Deduct	-2.57	
31 25 14 23-0006	BAG	150 Lb. Capacity Sand Bag With Sand.....	17.61	6.76
		For >2,500 To 5,000, Deduct	-1.35	
		For >5,000, Deduct	-3.11	

31 Earthwork**31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0007		BAG 175 Lb. Capacity Sand Bag With Sand..... <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	20.53 -1.54 -3.59	7.69
31 25 14 23-0008		BAG 2,000 Lb. Capacity Sand Bag With Sand..... <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	168.89 -10.28 -27.17	54.52
31 25 14 23-0009		BAG 3,000 Lb. Capacity Sand Bag With Sand..... <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	217.40 -11.31 -33.05	59.97
31 25 14 23-0010 Gravel Bags (31 25 14 23)				
Note: Bags filled on site with delivered material. Includes material and placement of bags.				
31 25 14 23-0011		BAG 30 Lb. Capacity Gravel Bag With Gravel..... <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	6.67 -0.40 -1.07	2.02
31 25 14 23-0012		BAG 50 Lb. Capacity Gravel Bag With Gravel..... <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	12.03 -0.61 -1.81	3.03
31 25 14 23-0013 Floating Turbidity Curtain (31 25 14 23)				
Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6" x 6", 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft. buoyancy in saltwater.				
31 25 14 23-0014	LF	3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	29.70 -4.55 -2.77 3.36	
31 25 14 23-0015	LF	4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	32.18 -5.00 -3.05 3.70	
31 25 14 23-0016	LF	5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	35.61 -5.67 -3.45 4.19	
31 25 14 23-0017	LF	6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	38.51 -6.21 -3.78 4.59	
31 25 14 23-0018	LF	7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	40.42 -6.52 -3.97 4.82	
31 25 14 23-0019	LF	8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	42.33 -6.82 -4.15 5.04	
31 25 14 23-0020	LF	9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	44.55 -7.19 -4.37 5.31	
31 25 14 23-0021	LF	10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	47.58 -7.73 -4.71 5.71	
31 25 14 23-0022	LF	12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	50.00 -8.13 -4.95 6.01	
31 25 14 23-0023	LF	13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	53.23 -8.70 -5.30 6.43	
31 25 14 23-0024	LF	14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	56.25 -9.22 -5.61 6.81	
31 25 14 23-0025	LF	15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	59.17 -9.70 -5.91 7.17	
31 25 14 23-0026	LF	16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	64.37 -10.70 -6.51 7.91	
31 25 14 23-0027	LF	17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	67.50 -11.22 -6.83 8.29	
31 25 14 23-0028	LF	18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain..... <i>For Type 1, Deduct</i> <i>For 13 Oz PVC Fabric, Type 2, Deduct</i> <i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	70.54 -11.70 -7.12 8.65	



	Earthwork	31	
	Earth Moving	31 20	15
	Erosion and Sedimentation Controls	31 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0029 LF 19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	73.76	
For Type 1, Deduct	-12.22	
For 13 Oz PVC Fabric, Type 2, Deduct	-7.44	
For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	9.03	
31 25 14 23-0030 LF 20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	76.91	
For Type 1, Deduct	-12.70	
For 13 Oz PVC Fabric, Type 2, Deduct	-7.73	
For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add	9.39	
31 25 14 23-0031 Turbidity Curtain Anchors (31 25 14 23)		
31 25 14 23-0032 EA 14 Lb., Turbidity Curtain Anchor System	791.19	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0033 EA 25 Lb., Turbidity Curtain Anchor System	1,083.83	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0034 EA 40 Lb., Turbidity Curtain Anchor System	1,377.74	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0035 EA 65 Lb., Turbidity Curtain Anchor System	1,801.04	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0036 Filter Bags (31 25 14 23)		
31 25 14 23-0037 Non-Woven Filter Bags (31 25 14 23-0036)		
31 25 14 23-0038 EA 6' x 15' Non-Woven Filter Bag	264.33	
31 25 14 23-0039 EA 13' x 15' Non-Woven Filter Bag	382.47	
31 25 14 23-0040 EA 15' x 15' Non-Woven Filter Bag	439.75	
31 25 14 23-0041 Monofilament Filter Bags (31 25 14 23-0036)		
31 25 14 23-0042 EA 5' x 15' Monofilament Filter Bag.....	274.82	
31 25 14 23-0043 EA 10' x 15' Monofilament Filter Bag.....	380.47	
31 25 14 23-0044 Cable Articulating Concrete Block (31 25 14 23)		
Note: 4000 PSI Compressive strength, 12 Lbs./CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 25 14 23-0045 SF 4.75" Open Cell Articulated Concrete Block With Earth Backfill	42.88	
For Up To 500, Add	9.81	
For >500 To 1,000, Add	5.52	
31 25 14 23-0046 SF 6" Open Cell Articulated Concrete Block With Earth Backfill	48.75	
For Up To 500, Add	11.09	
For >500 To 1,000, Add	6.22	
31 25 14 23-0047 SF 7.5" Open Cell Articulated Concrete Block With Earth Backfill	55.51	
For Up To 500, Add	12.58	
For >500 To 1,000, Add	7.03	
31 25 14 23-0048 SF 9" Open Cell Articulated Concrete Block With Earth Backfill	62.48	
For Up To 500, Add	14.14	
For >500 To 1,000, Add	7.89	
31 25 14 23-0049 SF 4.75" Closed Cell Articulated Concrete Block	45.63	
For Up To 500, Add	10.36	
For >500 To 1,000, Add	5.79	
31 25 14 23-0050 SF 6" Closed Cell Articulated Concrete Block	52.03	
For Up To 500, Add	11.75	
For >500 To 1,000, Add	6.55	
31 25 14 23-0051 SF 7.5" Closed Cell Articulated Concrete Block	59.41	
For Up To 500, Add	13.36	
For >500 To 1,000, Add	7.42	
31 25 14 23-0052 SF 9" Closed Cell Articulated Concrete Block	66.94	
For Up To 500, Add	15.03	
For >500 To 1,000, Add	8.34	
31 25 14 26 Stabilization Measures for Sedimentation Control (31 25 14)		
31 25 14 26-0001 Silt Fences And Dike Barriers (31 25 14 26)		
Note: Includes stakes and embedding.		
31 25 14 26-0002 Silt Fences 2' High (31 25 14 26-0001)		
See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0003 LF 2' High Silt Fence with Stakes at 4' On Center	5.25	
31 25 14 26-0004 LF 2' High Silt Fence with Stakes at 6' On Center	4.05	
31 25 14 26-0005 LF 2' High Silt Fence with Stakes at 8' On Center	2.83	
31 25 14 26-0006 LF 2' High Silt Fence with Stakes at 10' On Center	2.40	
31 25 14 26-0007 Silt Fences 3' High (31 25 14 26-0001)		
See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0008 LF 3' High Silt Fence with Stakes at 4' On Center	6.20	
31 25 14 26-0009 LF 3' High Silt Fence with Stakes at 6' On Center	4.81	
31 25 14 26-0010 LF 3' High Silt Fence with Stakes at 8' On Center	3.34	
31 25 14 26-0011 LF 3' High Silt Fence with Stakes at 10' On Center	2.72	

31	Earthwork
31 20	Earth Moving
31 25	Erosion and Sedimentation Controls



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 26-0012			Silt Dike Barrier (31 25 14 26-0001)		
31 25 14 26-0013	LF		Silt Dike Barrier With Stakes.....	4.08	
31 25 14 26-0014			Silt Fences Removal (31 25 14 26-0001)		
31 25 14 26-0015	LF		Removal Of Silt Fence And Stakes.....	0.96	
31 25 14 26-0016			Hay And Straw Bales (31 25 14 26)		
			Note: Includes trench for placement, and stakes.		
31 25 14 26-0017	LF		Place Sterilized Straw Bales	5.63	
			Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0020 for removal of straw bale.		
31 25 14 26-0018	LF		Place Hay Bales	5.20	
			Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0020 for removal of hay bale.		
31 25 14 26-0019	EA		Place And Remove Hay Bales, Includes Securing In Ground With Stakes.....	15.59	
31 25 14 26-0020	LF		Removal Of Hay Or Straw Bales	1.72	
			Note: Includes removal of stakes.		
31 25 14 26-0021			Sediment Logs (Degradable) (31 25 14 26)		
31 25 14 26-0022			Sediment Logs (Degradable) (31 25 14 26-0021)		
			Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0023	LF		9" Sediment Fiber Roll Log	6.07	
31 25 14 26-0024	LF		12" Sediment Fiber Roll Log	6.96	
31 25 14 26-0025	LF		20" Sediment Fiber Roll Log	10.40	
31 25 14 26-0026			Wattles (Degradable) With UV Stabilized Synthetic Netting (31 25 14 26-0021)		
			Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0027	EA		Wattles (Sterile Straw Filled Rolls), 8" x 25'	122.03	
31 25 14 26-0028	EA		Wattles (Sterile Straw Filled Rolls), 9" x 25'	126.75	
31 25 14 26-0029	EA		Wattles (Sterile Straw Filled Rolls), 12" x 20'	130.83	
31 25 14 26-0030	EA		Wattles (Sterile Straw Filled Rolls), 20" x 10'	131.11	
31 25 14 26-0031			Fiber Roll (CALTRANS Type 1) (31 25 14 26)		
			Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0032	LF		8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	6.66	
			For >1,000 To 10,000, Deduct	-0.84	
			For >10,000, Deduct	-1.40	
31 25 14 26-0033	LF		9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	6.90	
			For >1,000 To 10,000, Deduct	-0.85	
			For >10,000, Deduct	-1.43	
31 25 14 26-0034	LF		12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	8.81	
			For >1,000 To 10,000, Deduct	-1.01	
			For >10,000, Deduct	-1.71	
31 25 14 26-0035			Fiber Roll (CALTRANS Type 2) (31 25 14 26)		
			Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0036	LF		8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	5.20	
			For >1,000 To 10,000, Deduct	-0.62	
			For >10,000, Deduct	-1.04	
31 25 14 26-0037	LF		9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	5.64	
			For >1,000 To 10,000, Deduct	-0.66	
			For >10,000, Deduct	-1.11	
31 25 14 26-0038	LF		12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	6.86	
			For >1,000 To 10,000, Deduct	-0.72	
			For >10,000, Deduct	-1.22	
31 25 14 26-0039			Inlet Protection Sediment Bags (31 25 14 26)		
			Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0040	EA		2' x 2' x 3' Inlet Protection Sediment Bag	67.38	
31 25 14 26-0041	EA		2' x 3' x 3' Inlet Protection Sediment Bag	78.15	
31 25 14 26-0042	EA		2' x 4' x 3' Inlet Protection Sediment Bag	85.74	
31 25 14 26-0043			Clean Sediment Logs/Wattles (31 25 14 26)		
			Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0044	EA		Clean Sediment Logs/Wattles.....	96.06	

31 30 Earthwork Methods (31)

31 31 Soil Treatment (31 30)

31 31 16 Termite Control (31 31)



	Earthwork	31	
	Earthwork Methods	31 30	
	Soil Treatment	31 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 31 16 13 Chemical Termite Control (31 31 16)		
31 31 16 13-0001 Commercial Use (31 31 16 13)		
31 31 16 13-0002 SF Termite Pretreatment, Commercial Soil Poisoning Under Slab	1.06	
31 31 16 13-0003 SF Termite Pretreatment, Commercial Slab And Walls	1.49	
31 31 16 13-0004 Residential Use (31 31 16 13)		
31 31 16 13-0005 SF Termite Pretreatment, Residential General Spraying Walls And Slab	1.54	
31 31 16 13-0006 SF Termite Treatment, Existing Residential Structure	1.69	
31 31 19 Vegetation Control (31 31)		
31 31 19 13 Chemical Vegetation Control (31 31 19)		
31 31 19 13-0001 Soil Sterilants (31 31 19 13)		
31 31 19 13-0002 MSF Soil Sterilant	34.90	
Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.		
For >45 To 90, Deduct	-0.52	
For >90 To 225, Deduct	-2.78	
For >225, Deduct	-3.82	
31 32 Soil Stabilization (31 30)		
31 32 13 Soil Mixing Stabilization (31 32)		
31 32 13 16 Cement Soil Stabilization (31 32 13)		
31 32 13 16-0001 Soil Cement Course (31 32 13 16)		
Note: Includes soil material, adding and mixing of cement, water and calcium chloride (if required), shaping, finishing and final compaction. Excludes cement, calcium chloride, foundation preparation, compaction water and additional surface treatments.		
31 32 13 16-0002 CY Compacted Soil Cement Course, Material mixed in Central Plant	90.01	
31 32 13 16-0003 CY Compacted Soil Cement Course, Material mixed in Traveling Pugmill. Cement	94.78	
31 32 13 16-0004 LB Cement, Per Unit Of Measure	0.05	
31 32 13 16-0005 LB Flake Calcium Chloride, Per Unit Of Measure	0.93	
31 32 13 16-0006 EA Mobilize And Demobilize Traveling Pugmill	150.00	
31 32 13 16-0007 Cementitious Soil Binder (31 32 13 16)		
31 32 13 16-0008 CY Cementitious Soil Binder, 4% Cement Mix By Volume	43.30	
31 32 13 16-0009 CY Cementitious Soil Binder, 6% Cement Mix By Volume	49.35	
31 32 13 16-0010 CY Cementitious Soil Binder, 9% Cement Mix By Volume	59.30	
31 32 13 16-0011 CY Cementitious Soil Binder, 12% Cement Mix By Volume	69.10	
31 32 13 19 Lime Soil Stabilization (31 32 13)		
Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.		
31 32 13 19-0001 Lime Slurry (31 32 13 19)		
31 32 13 19-0002 LCY Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume	39.08	
31 32 13 19-0003 TON Cement Stabilized Base Material	114.52	
31 32 13 19-0004 CWT Lime For Soil Stabilization	17.86	
Note: Excludes the cost for spreading or backfilling		
31 32 13 19-0005 LCY Roller, Grader - Lime Stabilization	21.37	
31 32 13 19-0006 LCY Roller, Grader - Cement Stabilization	4.89	
31 32 13 19-0007 Lime Stabilized Subgrade (31 32 13 19)		
Note: Based on soil weight of 110 Lbs./CF using lime weight of 5.5 Lbs./CF (5%).		
31 32 13 19-0008 SY 6" Thick Lime Stabilized Subgrade, 25 Lb.	12.27	
For 4% Lime Instead Of 5%, Deduct	-0.32	
For 6% Lime Instead Of 5%, Add	0.32	
31 32 13 19-0009 SY 7" Thick Lime Stabilized Subgrade, 29 Lb.	14.24	
For 4% Lime Instead Of 5%, Deduct	-0.37	
For 6% Lime Instead Of 5%, Add	0.37	
31 32 13 19-0010 SY 8" Thick Lime Stabilized Subgrade, 33 Lb.	16.24	
For 4% Lime Instead Of 5%, Deduct	-0.42	
For 6% Lime Instead Of 5%, Add	0.42	
31 32 13 19-0011 SY 10" Thick Lime Stabilized Subgrade, 41 Lb./SY	20.29	
For 4% Lime Instead Of 5%, Deduct	-0.52	
For 6% Lime Instead Of 5%, Add	0.52	
For >5,000 SY, Deduct	-1.40	
31 32 13 19-0012 SY 12" Thick Lime Stabilized Subgrade, 50 Lb./SY	24.36	
For 4% Lime Instead Of 5%, Deduct	-0.63	
For 6% Lime Instead Of 5%, Add	0.63	
For >5,000 SY, Deduct	-1.69	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 13 19-0013	SY	14" Thick Lime Stabilized Subgrade, 58 Lb./SY..... <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i> <i>For >5,000 SY, Deduct</i>	28.37 -0.73 0.73 -1.96	
31 32 13 19-0014	SY	16" Thick Lime Stabilized Subgrade, 66 Lb./SY..... <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i> <i>For >5,000 SY, Deduct</i>	32.47 -0.83 0.83 -2.25	
31 32 13 19-0015	SY	18" Thick Lime Stabilized Subgrade, 74 Lb./SY..... <i>For 4% Lime Instead Of 5%, Deduct</i> <i>For 6% Lime Instead Of 5%, Add</i> <i>For >5,000 SY, Deduct</i>	36.55 -0.94 0.94 -2.53	
31 32 13 19-0016		Hydrated Lime Stabilized Subgrade (31 32 13 19) Note: Includes scarifying, adding and mixing of hydrated lime and water, light sealing, curing, secondary mixing, shaping, finishing and final compaction. Excludes hydrated lime, foundation preparation, compaction water and additional surface treatments.		
31 32 13 19-0017	CY	Compacted Hydrated Lime Stabilized Subgrade	73.60	
31 32 13 19-0018	LB	Hydrated Lime	1.78	
31 32 13 29		Liquid Soil Stabilization (31 32 13)		
31 32 13 29-0001	GAL	Polyacrylamide And Calcium Solution	2.88	
31 32 19		Geosynthetic Soil Stabilization and Layer Separation (31 32)		
31 32 19 13		Geogrid Soil Stabilization (31 32 19)		
31 32 19 13-0001		Geogrid Fabrics (31 32 19 13) Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications. Includes stakes.		
31 32 19 13-0002	SY	5.3 Ounce/SY, 1,700 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	5.44 1.21 0.89 0.58 0.29	
31 32 19 13-0003	SY	6.9 Ounce/SY, 3,100 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	6.21 1.37 1.01 0.66 0.33	
31 32 19 13-0004	SY	8.7 Ounce/SY, 4,280 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	6.78 1.49 1.10 0.72 0.36	
31 32 19 13-0005	SY	12.6 Ounce/SY, 7,315 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	9.76 2.09 1.55 1.02 0.51	
31 32 19 13-0006	SY	14.1 Ounce/SY, 9,790 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000)..... <i>For Up To 50, Add</i> <i>For >50 To 150, Add</i> <i>For >150 To 250, Add</i> <i>For >250 To 500, Add</i>	11.17 2.38 1.77 1.16 0.58	
31 32 19 13-0007	SY	4.3 Ounce/SY, 1,658 Lb./FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)	5.53 1.22 0.91 0.59 0.30	
31 32 19 13-0008	SY	5.9 Ounce/SY, 2,192 Lb./FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30)	8.15 1.75 1.30 0.86 0.43	
31 32 19 16		Geotextile Soil Stabilization (31 32 19)		
31 32 19 16-0001		Nonwoven Polypropylene Geotextiles (31 32 19 16) Note: For drainage, filtration and separation. Includes stakes.		
31 32 19 16-0002	SY	3.0 Ounce/SY, 40 Mil, 80 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS)	1.69 0.38 0.28 0.18 0.09	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0003	SY	3.5 Ounce/SY, 50 Mil, 95 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS)	1.81		
		For Up To 50, Add	0.41		
		For >50 To 150, Add	0.30		
		For >150 To 250, Add	0.20		
		For >250 To 500, Add	0.10		
31 32 19 16-0004	SY	4.0 Ounce/SY, 60 Mil, 115 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS)	1.96		
		For Up To 50, Add	0.44		
		For >50 To 150, Add	0.32		
		For >150 To 250, Add	0.21		
		For >250 To 500, Add	0.11		
31 32 19 16-0005	SY	4.5 Ounce/SY, 55 Mil, 120 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS)	2.11		
		For Up To 50, Add	0.47		
		For >50 To 150, Add	0.35		
		For >150 To 250, Add	0.23		
		For >250 To 500, Add	0.11		
31 32 19 16-0006	SY	6.0 Ounce/SY, 70 Mil, 160 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS)	2.51		
		For Up To 50, Add	0.55		
		For >50 To 150, Add	0.41		
		For >150 To 250, Add	0.27		
		For >250 To 500, Add	0.13		
31 32 19 16-0007	SY	7.0 Ounce/SY, 85 Mil, 180 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS)	2.95		
		For Up To 50, Add	0.65		
		For >50 To 150, Add	0.48		
		For >150 To 250, Add	0.32		
		For >250 To 500, Add	0.16		
31 32 19 16-0008	SY	8.0 Ounce/SY, 85 Mil, 205 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS)	3.25		
		For Up To 50, Add	0.71		
		For >50 To 150, Add	0.53		
		For >150 To 250, Add	0.35		
		For >250 To 500, Add	0.17		
31 32 19 16-0009	SY	10 Ounce/SY, 115 Mil, 250 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS)	4.01		
		For Up To 50, Add	0.86		
		For >50 To 150, Add	0.64		
		For >150 To 250, Add	0.42		
		For >250 To 500, Add	0.21		
31 32 19 16-0010	SY	16 Ounce/SY, 175 Mil, 425 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric	7.23		
		For Up To 50, Add	1.51		
		For >50 To 150, Add	1.12		
		For >150 To 250, Add	0.74		
		For >250 To 500, Add	0.37		
31 32 19 16-0011		Woven Geotextiles Fabric (31 32 19 16)			
		Note: Includes stakes.			
31 32 19 16-0012	SY	200 Lb. Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55)	2.45		
		For Up To 50, Add	0.54		
		For >50 To 150, Add	0.40		
		For >150 To 250, Add	0.26		
		For >250 To 500, Add	0.13		
31 32 19 16-0013	SY	315 Lb. Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66)	3.44		
		For Up To 50, Add	0.73		
		For >50 To 150, Add	0.55		
		For >150 To 250, Add	0.36		
		For >250 To 500, Add	0.18		
31 32 19 16-0014	SY	4 To 6% Open Area, 370 x 250 Lb. Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%)	6.09		
		For Up To 50, Add	1.28		
		For >50 To 150, Add	0.95		
		For >150 To 250, Add	0.63		
		For >250 To 500, Add	0.31		
31 32 19 16-0015	SY	11 To 15% Open Area, 370 x 220 Lb. Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%)	5.94		
		For Up To 50, Add	1.25		
		For >50 To 150, Add	0.93		
		For >150 To 250, Add	0.61		
		For >250 To 500, Add	0.31		
31 32 19 16-0016	SY	6.9 Oz./SY, 250 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF)	5.19		
		For Up To 50, Add	1.10		
		For >50 To 150, Add	0.82		
		For >150 To 250, Add	0.54		
		For >250 To 500, Add	0.27		
31 32 19 16-0017	SY	9.1 Oz./SY, 333 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF)	5.55		
		For Up To 50, Add	1.17		
		For >50 To 150, Add	0.87		
		For >150 To 250, Add	0.58		
		For >250 To 500, Add	0.29		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0018	SY	12.1 Oz./SY, 400 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF).....	7.09	
		For Up To 50, Add	1.48	
		For >50 To 150, Add	1.10	
		For >150 To 250, Add	0.73	
		For >250 To 500, Add	0.36	
31 32 19 16-0019	SY	12.1 Oz./SY, 400 Lb./IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF)	10.11	
		For Up To 50, Add	2.08	
		For >50 To 150, Add	1.56	
		For >150 To 250, Add	1.03	
		For >250 To 500, Add	0.52	
31 32 19 16-0020		Geomembranes (31 32 19 16)		
		Note: Includes stakes.		
31 32 19 16-0021		Polyvinyl Chloride (PVC) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0022	SF	20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.53	
31 32 19 16-0023	SF	30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.77	
31 32 19 16-0024	SF	40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.13	
31 32 19 16-0025	SF	50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.56	
31 32 19 16-0026	SF	60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.93	
31 32 19 16-0027	SF	70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.21	
31 32 19 16-0028	SF	80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.48	
31 32 19 16-0029	SF	90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.85	
31 32 19 16-0030	SF	100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	4.21	
31 32 19 16-0031		High-Density Polyethylene (HDPE) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0032	SF	20 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.20	
31 32 19 16-0033	SF	30 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.57	
31 32 19 16-0034	SF	40 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.84	
31 32 19 16-0035	SF	50 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	3.04	
31 32 19 16-0036	SF	60 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	2.35	
31 32 19 16-0037	SF	80 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	2.90	
31 32 19 16-0038	SF	100 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	3.45	
31 32 19 16-0039	SF	120 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	6.25	
31 32 19 16-0040	SF	140 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	6.48	
31 32 19 16-0041		Rock Slope Protection Fabric (Monterey County) (31 32 19 16)		
31 32 19 16-0042	SY	Rock Slope Protection Fabric, Drainage Outlet (Monterey County)	12.97	
31 32 19 26		Geoweb Cellular Confinement System (31 32 19)		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001		Geoweb Cellular Confinement System (31 32 19 26)		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0002	SF	4" Geoweb Cellular Confinement System (Presto Geosystems)	8.02	
		For >20,000, Deduct	-0.19	
		For >2:1 Slope, Add	1.38	
31 32 19 26-0003	SF	6" Geoweb Cellular Confinement System (Presto Geosystems)	9.74	
		For >20,000, Deduct	-0.28	
		For >2:1 Slope, Add	1.38	
31 32 19 26-0004	SF	8" Geoweb Cellular Confinement System (Presto Geosystems)	11.79	
		For >20,000, Deduct	-0.38	
		For >2:1 Slope, Add	1.38	
31 32 36		Soil Nailing (31 32)		
31 32 36 11		Soil Nailing Stabilization (31 32 36)		
31 32 36 11-0001		Landslide and Slip-Out Stabilization (31 32 36 11)		
		Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.		



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0002		BioWall® (31 32 36 11-0001) Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0003	SF	BioWall® Construction.....	25.00	
31 32 36 11-0004		Green Terra Mesh (31 32 36 11-0001) Note: Furnish and install the Green Terra Mesh. Furnish equipment and incidentals necessary to complete the work. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0005	EA	Green Terra Mesh	635.25	
31 32 36 11-0006		GeoSynthetically Confined Soil™ (GCS®) Components (31 32 36 11-0001) Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2,400 lb./ft. (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr. (10 miles/hr.). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or ¾ in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front o See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0007	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Construction	23.75	
		Note: Installation sold per square face foot (excludes materials)		
31 32 36 11-0008	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10" x 120")	108.50	
31 32 36 11-0009	EA	GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8" x 8" x 16")	6.50	
31 32 36 11-0010	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile	0.75	
31 32 36 11-0011		Turf (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0012		Permanent Turf Reinforcing Mat (TRM) (31 32 36 11-0011) Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxial oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.		
31 32 36 11-0013	SF	Permanent Turf Reinforcement Mat..... Note: sold per square face foot	1.50	
31 32 36 11-0014		Biodegradable Turf Reinforcing Mat (TRM) (31 32 36 11-0011) Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.		
31 32 36 11-0015	SF	Biodegradable Turf Reinforcement Mat	0.75	
		Note: sold per square face foot		

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0016	Shotcrete or Gunite (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0017	Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying		
31 32 36 11-0018	SFI Wet-Mix Reinforced Shotcrete Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).		5.50



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0019		Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C6		
31 32 36 11-0020	SFI	Dry-Mix Reinforced Gunite Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	8.50	
31 32 36 11-0021		Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016)		
31 32 36 11-0022	SFI	Steel Fiber Reinforcement Note: sold per inch thickness over one square face foot of area	1.25	
31 32 36 11-0023		Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for Items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0024		Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0023) Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 11-0025	SF	High Capacity Diamond Mesh Note: sold per square face foot	11.00	
31 32 36 11-0026	SF	Double Twist Wire Mesh Note: sold per square face foot	13.75	
31 32 36 11-0027		Steel Plates (31 32 36 11-0023)		
31 32 36 11-0028	EA	8x8 Galvanized Steel Plates	35.00	
31 32 36 11-0029	EA	10x10 Galvanized Steel Plates	54.75	
31 32 36 11-0030	EA	12x12 Galvanized Steel Plates	78.75	
31 32 36 11-0031	EA	8x8 Epoxy Coated Steel Plates	76.00	
31 32 36 11-0032	EA	10x10 Epoxy Coated Steel Plates	89.25	
31 32 36 11-0033	EA	12x12 Epoxy Coated Steel Plates	105.25	

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31 32 36 11-0034		Drilled Horizontal Drains (31 32 36 11-0001)	
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).			
31 32 36 11-0035	LF	Drilled PVC Horizontal Drains (up to 2" Diameter).....	26.00
31 32 36 11-0036	LF	Stripdrain - 6" Wide.....	3.25
31 32 36 11-0037	LF	Stripdrain - 12" Wide.....	4.00
31 32 36 11-0038	LF	PVC Drain Collector Pipe System.....	26.75

31 32 36 11-0039		Rockfall Stabilization (31 32 36 11-0001)	
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).			
31 32 36 11-0040	SF	Scaling.....	3.75
31 32 36 11-0041	SF	Trim Blasting.....	155.00
31 32 36 11-0042	SY	Slope Drape - Double Twist Wire Mesh.....	45.00
31 32 36 11-0043	SY	Slope Drape - Cable Net.....	135.00
31 32 36 11-0044	SY	Slope Drape - Tecco Mesh (4mm).....	135.00
31 32 36 11-0045	LF	Temporary Rockfall Barrier.....	500.00
31 32 36 11-0046	LF	Low Reach Drilling (<25 feet).....	25.00
31 32 36 11-0047	LF	High Reach Drilling (>25 feet).....	45.00
31 32 36 11-0048	LF	Limited Access Drilling.....	100.00
31 32 36 11-0049	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized).....	18.50
31 32 36 11-0050	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Epoxy Coated).....	15.25
31 32 36 11-0051	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized).....	23.25
31 32 36 11-0052	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Epoxy Coated).....	17.25
31 32 36 11-0053	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Galvanized).....	23.50
31 32 36 11-0054	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Epoxy Coated).....	18.75
31 32 36 11-0055	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Galvanized).....	26.50
31 32 36 11-0056	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0057	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized).....	29.25
31 32 36 11-0058	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0059	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized).....	34.50
31 32 36 11-0060	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Epoxy Coated).....	31.75
31 32 36 11-0061	EA	Rock Anchor Testing.....	825.00

31 32 36 11-0062		Mobilization / Demobilization (31 32 36 11-0001)	
31 32 36 11-0063	EA	Mobilization - In State.....	10,000.00
31 32 36 11-0064	EA	Mobilization - Out Of State.....	25,000.00
31 32 36 11-0065	EA	Mobilization - Specialty Equipment Adder.....	9,800.00

31 32 36 11-0066		Daily Crew Rates (DCR) (31 32 36 11-0001)	
31 32 36 11-0067	DAY	Soils Stabilization Crew - DCR , Per Workday.....	13,150.00
31 32 36 11-0068	DAY	Rockfall Stabilization Crew - DCR, Per Workday.....	15,200.00
31 32 36 11-0069	DAY	Compaction Grouting Crew - DCR, Per Workday.....	12,925.00
31 32 36 11-0070	DAY	Additional Crew Member/Crew - DCR, Per Workday.....	2,050.00
31 32 36 11-0071	EA	Out of State Crew Rotation.....	4,950.00
31 32 36 11-0072	EA	Spider Excavation.....	5,500.00

31 32 36 13 Driven Soil Nailing (31 32 36)

31 32 36 13-0001		Large Diameter Micropiles (31 32 36 13)	
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).			
31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing).....	94.50
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing).....	130.25
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing).....	166.50
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing).....	213.25

31 32 36 16 Grouted Soil Nailing (31 32 36)

31 32 36 16-0001		Grouting (31 32 36 16)	
Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).			



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 16-0002	Compaction Grouting (31 32 36 16-0001) Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.		
31 32 36 16-0003	LF Compaction Grouting Casing Installation.....	52.75	
31 32 36 16-0004	CF Compaction Grout Injection for Soils Densification.....	55.50	
31 32 36 16-0005	CF Compaction Grout For Void Fill.....	39.00	
31 32 36 16-0006	Polyurethane Grouting (31 32 36 16-0001) Note: The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - Lbs./CF D 1622 3.0 Lbs./CF 6.0 Lbs./CF Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3' below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.		
31 32 36 16-0007	LB Polyurethane Grouting For Void Fill and Re-Leveling.....	11.50	
31 32 36 19	Corrosion-Protected Soil Nailing (31 32 36)		
31 32 36 19-0001	Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 19) Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering B7X or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 19-0002	Self-Drilling SuperNails® (31 32 36 19-0001)		
31 32 36 19-0003	EA Self Drilling SuperNails® Up To 10 Ft. Length.....	559.00	
31 32 36 19-0004	EA Self Drilling SuperNails® Up To 20 Ft. Length.....	939.25	
31 32 36 19-0005	EA Self Drilling SuperNails® Up To 30 Ft. Length.....	1,305.75	
31 32 36 19-0006	EA Self Drilling SuperNails® Up To 40 Ft. Length.....	1,735.75	
31 32 36 19-0007	EA Self Drilling SuperNails® Up To 50 Ft. Length.....	2,119.75	
31 32 36 19-0008	EA Self Drilling SuperNails® Up To 60 Ft. Length.....	2,459.25	
31 32 36 19-0009	EA Self Drilling SuperNails® Up To 70 Ft. Length.....	2,879.25	
31 32 36 19-0010	EA Self Drilling SuperNails® Up To 80 Ft. Length.....	3,253.50	
31 32 36 19-0011	EA Additional Cost for 10' High Capacity X-51 Bar	129.50	
31 32 36 19-0012	SuperNail® Testing (31 32 36 19) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		

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31 32 36 19-0013	EA	SuperNail® Proof Testing	769.00	
31 32 36 19-0014	EA	SuperNail® Verification Testing	2,339.75	

31 32 36 26 Launched Soil Nailing (31 32 36)

31 32 36 26-0001 Launched SuperDrain™ (Horizontal Drains) (31 32 36 26)

Note: Furnish Launched SuperDrain™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Drainage perforations consist of 0.5-inch diameter holes drilled or torch-cut at 6 inch spacing along the distal 5 feet of nail. Every other hole is rotated 90° about the longitudinal axis of the nail. Furnish equipment and incidentals necessary to complete the work. Insert Launched SuperDrain™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 26-0002	EA	GalvaDized™ SuperDrain™ - Up To 20'	605.00	
		Note: perforated GalvaDized™ steel tube up to 20 ft. length.		
31 32 36 26-0003	EA	Fiberglass SuperNail® - Up To 20'	621.50	
		Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.		
31 32 36 26-0004	EA	GalvaDized™ SuperNail® - Up To 20'	478.50	
		Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.		
31 32 36 26-0005	EA	Temporary Launched Soil Nail	379.50	
		Note: bare steel tube up to 20 ft. length.		
31 32 36 26-0006	EA	Fiberglass SuperDrain™	495.00	
		Note: perforated fiberglass tube up to 20 ft. length.		
31 32 36 26-0007	EA	GalvaDized™ SuperDrain™	379.50	
		Note: perforated GalvaDized™ steel tube up to 20 ft. length.		

31 32 36 29 Drilled Soil Nailing (31 32 36)

31 32 36 29-0001 Drilled SuperNails® (Permanently Cased Soil Nails) (31 32 36 29)

Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 thread bar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner thread bar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® Up To 10 Ft. Length	602.25	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® Up To 20 Ft. Length	693.50	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® Up To 30 Ft. Length	921.50	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® Up To 40 Ft. Length	1,056.00	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® Up To 50 Ft. Length	1,171.50	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® Up To 60 Ft. Length	1,376.50	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® Up To 70 Ft. Length	1,624.75	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		
31 32 36 29-0009	EA	Drilled GalvaDized™ SuperNail® Up To 80 Ft. Length	1,872.75	
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.		

31 32 36 33 Drilled / Launched Soil Nailing (31 32 36)

31 32 36 33-0001 Drilled / Launched SuperMicropiles™ (31 32 36 33)

Note: Furnish SuperMicropiles™ that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 thread bar as the inner bar. SuperMicropiles™ may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperMicropile™ outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner thread bar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.

31 32 36 33-0002	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 20 Ft. Length	695.00	
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.		
31 32 36 33-0003	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 30 Ft. Length	1,020.00	
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.		
31 32 36 33-0004	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 40 Ft. Length	1,280.00	
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.		
31 32 36 33-0005	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 50 Ft. Length	1,540.00	
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.		



	Earthwork	31	15
	Earthwork Methods	31 30	
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 35 Slope Protection ^(31 30)

31 35 19 Geosynthetic Slope Protection ^(31 35)

31 35 19 19 Slope Protection with Mulch Control Netting ^(31 35 19)

Note: Includes stakes.

31 35 19 19-0001 Erosion Control Fabric ^(31 35 19 19)

31 35 19 19-0002 SY 26.6 Oz./SY Erosion Control Fabric (Belton Industries Geocoir 900) 5.64

31 36 Gabions ^(31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 36 13 Gabion Boxes ^(31 36)

31 36 13 00-0001 Stone Filled Gabion Slope Protection ^(31 36 13)

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002 SY 6" Deep Stone Filled Gabion Slope Protection 80.19
31 36 13 00-0003 SY 9" Deep Stone Filled Gabion Slope Protection 94.70
31 36 13 00-0004 SY 12" Deep Stone Filled Gabion Slope Protection 114.36
31 36 13 00-0005 SY 15" Deep Stone Filled Gabion Slope Protection 135.05
31 36 13 00-0006 SY 18" Deep Stone Filled Gabion Slope Protection 158.56
31 36 13 00-0007 SY 24" Deep Stone Filled Gabion Slope Protection 217.07
31 36 13 00-0008 SY 36" Deep Stone Filled Gabion Slope Protection 274.40

31 37 Riprap ^(31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0043 for hauling section for greater than 15 miles.

31 37 13 Machined Riprap ^(31 37)

31 37 13 00-0001 Random - Filter Stone ^(31 37 13)

31 37 13 00-0002 CY 10 To 50 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 86.13
For Chinking Material, Add 14.98
31 37 13 00-0003 CY >50 To 100 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 100.19
For Chinking Material, Add 14.98
31 37 13 00-0004 CY >100 To 200 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 106.81
For Chinking Material, Add 14.98
31 37 13 00-0005 CY >200 To 300 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 114.35
For Chinking Material, Add 14.98
31 37 13 00-0006 CY >300 To 600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 120.42
For Chinking Material, Add 14.98
31 37 13 00-0007 CY >600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 130.36
31 37 13 00-0008 CY 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip
Rap 149.78
31 37 13 00-0009 TON 10 To 50 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 56.98
31 37 13 00-0010 TON >50 To 100 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 65.91
31 37 13 00-0011 TON >100 To 200 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 70.11
31 37 13 00-0012 TON >200 To 300 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 74.89
31 37 13 00-0013 TON >300 To 600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 78.75
31 37 13 00-0014 TON >600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap 85.14
31 37 13 00-0015 TON 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip
Rap 100.76

31 40 Shoring and Underpinning ⁽³¹⁾

31 41 Shoring ^(31 40)

31 41 13 Timber Shoring ^(31 41)

31 41 13 00-0001 Wood Sheet Piling ^(31 41 13)

31 41 13 00-0002 Pull And Salvage ^(31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-back (rock bolting) where required and excavation.

31 41 13 00-0003 SF 8' Deep Excavation, Wood Shoring, Pull And Salvage 15.45
For Wood Sheeting Left In Place -1.43
31 41 13 00-0004 SF 10' Deep Excavation, Wood Shoring, Pull And Salvage 16.72
For Wood Sheeting Left In Place -1.67
31 41 13 00-0005 SF 12' Deep Excavation, Wood Shoring, Pull And Salvage 18.12
For Wood Sheeting Left In Place -1.93
31 41 13 00-0006 SF 14' Deep Excavation, Wood Shoring, Pull And Salvage 19.61
For Wood Sheeting Left In Place -2.24
31 41 13 00-0007 SF 16' Deep Excavation, Wood Shoring, Pull And Salvage 21.25
For Wood Sheeting Left In Place -2.56
31 41 13 00-0008 SF 18' Deep Excavation, Wood Shoring, Pull And Salvage 23.02
For Wood Sheeting Left In Place -2.93

31	Earthwork
31 40	Shoring and Underpinning
31 41	Shoring



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 41 13 00-0009 SF 20' Deep Excavation, Wood Shoring, Pull And Salvage 24.97
For Wood Sheeting Left In Place -3.33

31 41 16 Sheet Piling (31 41)

31 41 16 13 Steel Sheet Piling (31 41 16)

31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage (31 41 16 13)
Note: Up to 3 months. 38.5 KSI steel per SF minimum. Pounds per square foot (PSF) indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-back (rock bolting) where required and excavation.

31 41 16 13-0002 TON Driven Steel Sheet Piling, 15' Excavation, 22 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage 2,478.38
For Standard Sheeting Left In Place, Add 1,234.27
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add 1,185.77
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 109.12
For High Strength Sheeting 55,000 PSI Grade, Add 121.25
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add 375.87
For Each Additional Month >3 Months, Add 60.62

31 41 16 13-0003 TON Driven Steel Sheet Piling, 20' Excavation, 27 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage 2,579.24
For Standard Sheeting Left In Place, Add 1,183.84
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add 1,135.34
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 109.12
For High Strength Sheeting 55,000 PSI Grade, Add 121.25
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add 375.87
For Each Additional Month >3 Months, Add 60.62

31 41 16 13-0004 TON Driven Steel Sheet Piling, 25' Excavation, 38 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage 3,048.16
For Standard Sheeting Left In Place, Add 949.38
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add 900.88
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 109.12
For High Strength Sheeting 55,000 PSI Grade, Add 121.25
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add 375.87
For Each Additional Month >3 Months, Add 60.62

31 41 16 13-0005 TON Driven Steel Sheet Piling, 30' Excavation, 38 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage 3,499.38
For Standard Sheeting Left In Place, Add 723.77
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add 675.27
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 109.12
For High Strength Sheeting 55,000 PSI Grade, Add 121.25
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add 375.87
For Each Additional Month >3 Months, Add 60.62

31 41 16 13-0006 TON Driven Steel Sheet Piling, 35' Excavation, 38 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage 3,764.81
For Standard Sheeting Left In Place, Add 591.05
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add 542.56
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 109.12
For High Strength Sheeting 55,000 PSI Grade, Add 121.25
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add 375.87
For Each Additional Month >3 Months, Add 60.62

31 41 16 13-0007 TON Driven Steel Sheet Piling, 40' Excavation, 38 Pounds Per Square Foot (PSF) Steel Sheeting, Pull And Salvage 4,035.55
For Standard Sheeting Left In Place, Add 455.68
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF) Left In Place, Add 407.19
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 109.12
For High Strength Sheeting 55,000 PSI Grade, Add 121.25
For Lightweight Steel Sheeting 8.6 And 9.2 Pounds Per Square Foot (PSF), Add 375.87
For Each Additional Month >3 Months, Add 60.62

31 43 Concrete Raising (31 40)

31 43 13 Pressure Grouting (31 43)

31 43 13 16 Polyurethane Pressure Grouting (31 43 13)

31 43 13 16-0001 PolyLift™ Concrete Injection For Lifting And Leveling (31 43 13 16)

31 43 13 16-0002 EA Minimum Charge For Mobilization PolyLift™ Concrete Lifting And Leveling 3,965.06

31 43 13 16-0003 LB Up To 1,000 Lb. PolyLift™ Concrete Injection For Lifting And Leveling.....32.36
Note: Per pound of material.

31 43 13 16-0004 LB >1,000 Lb. PolyLift™ Concrete Injection For Lifting And Leveling 27.12
Note: Per pound of material.

31 45 Vibroflotation and Densification (31 40)

31 45 13 Vibroflotation (31 45)

31 45 13 00-0001 LCY Soil Stabilization, Vibroflotation.....18.29

31 60 Special Foundations and Load-bearing Elements (31)

31 62 Driven Piles (31 60)

31 62 13 Concrete Piles (31 62)

31 62 13 23 Prestressed Concrete Piles (31 62 13)

31 62 13 23-0001 Square Prestressed Driven Concrete Piles (31 62 13 23)



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Driven Piles	31 62

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 13 23-0002 VLF 10" Square Prestressed Driven Concrete Pile..... <i>For Piles Driven In Water, Add</i>	38.76 19.01	
31 62 13 23-0003 VLF 12" Square Prestressed Driven Concrete Pile..... <i>For Piles Driven In Water, Add</i>	48.54 21.40	
31 62 13 23-0004 VLF 14" Square Prestressed Driven Concrete Pile..... <i>For Piles Driven In Water, Add</i>	58.79 23.54	
31 62 13 23-0005 VLF 16" Square Prestressed Driven Concrete Pile..... <i>For Piles Driven In Water, Add</i>	71.94 26.11	
31 62 13 23-0006 VLF 18" Square Prestressed Driven Concrete Pile..... <i>For Piles Driven In Water, Add</i>	87.26 29.09	
31 62 13 23-0007 VLF 20" Square Prestressed Driven Concrete Pile..... <i>For Piles Driven In Water, Add</i>	100.91 32.16	
31 62 13 23-0008 VLF 24" Square Prestressed Driven Concrete Pile..... <i>For Piles Driven In Water, Add</i>	128.60 36.94	
31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles (31 62 13 23)		
31 62 13 23-0010 VLF 12" Octagonal Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	43.49 19.93	
31 62 13 23-0011 VLF 14" Octagonal Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	53.29 21.87	
31 62 13 23-0012 VLF 16" Octagonal Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	63.26 23.98	
31 62 13 23-0013 VLF 18" Octagonal Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	75.57 26.48	
31 62 13 23-0014 VLF 20" Octagonal Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	80.45 28.41	
31 62 13 23-0015 VLF 24" Octagonal Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	85.62 30.63	
31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles (31 62 13 23)		
31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	62.21 20.94	
31 62 13 23-0018 VLF 14" Diameter, 2-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	73.65 22.94	
31 62 13 23-0019 VLF 16" Diameter, 3" Wall, Straight Cylinder Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	87.18 25.26	
31 62 13 23-0020 VLF 18" Diameter, 3-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	98.61 27.52	
31 62 13 23-0021 VLF 20" Diameter, 4" Wall, Straight Cylinder Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	123.79 31.30	
31 62 13 23-0022 VLF 24" Diameter, 5" Wall, Straight Cylinder Prestressed Driven Concrete Pile <i>For Piles Driven In Water, Add</i>	152.86 35.65	
31 62 16 Steel Piles (31 62)		
31 62 16 16 Steel H Piles (31 62 16)		
31 62 16 16-0001 Rolled, Driven Steel H Piles (31 62 16 16)		
31 62 16 16-0002 VLF 8" x 8" x 36 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	38.87 20.43	
31 62 16 16-0003 VLF 10" x 10" x 42 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	43.21 21.70	
31 62 16 16-0004 VLF 10" x 10" x 57 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	51.75 22.55	
31 62 16 16-0005 VLF 12" x 12" x 53 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	50.05 22.90	
31 62 16 16-0006 VLF 12" x 12" x 63 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	55.74 23.47	
31 62 16 16-0007 VLF 12" x 12" x 74 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	63.65 25.74	
31 62 16 16-0008 VLF 12" x 12" x 84 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	69.34 26.31	
31 62 16 16-0009 VLF 14" x 14" x 73 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	63.61 26.22	
31 62 16 16-0010 VLF 14" x 14" x 89 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	73.28 27.18	
31 62 16 16-0011 VLF 14" x 14" x 102 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	81.95 29.71	
31 62 16 16-0012 VLF 14" x 14" x 117 Lb./FT, Rolled, Driven Steel H Pile <i>For Piles Driven In Water, Add</i>	91.06 30.62	
31 62 16 16-0013 Splices, Caps, And Points For H-Piles (31 62 16 16)		
31 62 16 16-0014 Rolled Steel H Pile Splices (31 62 16 16-0013)		
31 62 16 16-0015 EA 8" Rolled Steel H Pile Splice.....	342.74	
31 62 16 16-0016 EA 10" Rolled Steel H Pile Splice.....	383.17	
31 62 16 16-0017 EA 12" Rolled Steel H Pile Splice.....	526.14	
31 62 16 16-0018 EA 14" Rolled Steel H Pile Splice.....	546.36	

31	Earthwork
31 60	Special Foundations and Load-bearing Elements
31 62	Driven Piles



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0019		Rolled Steel H Driving Caps (31 62 16 16-0013)		
31 62 16 16-0020	EA	8" Rolled Steel H Driving Cap.....	3,365.05	
31 62 16 16-0021	EA	10" Rolled Steel H Driving Cap.....	3,365.05	
31 62 16 16-0022	EA	12" Rolled Steel H Driving Cap.....	3,429.48	
31 62 16 16-0023	EA	14" Rolled Steel H Driving Cap.....	5,147.61	
31 62 16 16-0024		Rolled Steel H Standard Pile Points (31 62 16 16-0013)		
31 62 16 16-0025	EA	8" Rolled Steel H Standard Pile Point.....	362.96	
31 62 16 16-0026	EA	10" Rolled Steel H Standard Pile Point.....	383.17	
31 62 16 16-0027	EA	12" Rolled Steel H Standard Pile Point.....	526.14	
31 62 16 16-0028	EA	14" Rolled Steel H Standard Pile Point.....	586.78	
31 62 16 16-0029	EA	10" Rolled Steel H Standard Pile Point.....	526.14	
31 62 16 16-0030	EA	14" Rolled Steel H Standard Pile Point.....	625.94	
31 62 16 19		Unfilled Tubular Steel Piles (31 62 16)		
31 62 16 19-0001		Unfilled Tubular Driven Steel Piles (31 62 16 19)		
31 62 16 19-0002	VLF	8" Diameter x 29 Lb./FT, Unfilled Tubular Driven Steel Pile.....	61.61	
		<i>For Piles Driven In Water, Add</i>	27.35	
31 62 16 19-0003	VLF	8" Diameter x 36 Lb./FT, Unfilled Tubular Driven Steel Pile.....	71.13	
		<i>For Piles Driven In Water, Add</i>	28.30	
31 62 16 19-0004	VLF	8" Diameter x 43 Lb./FT, Unfilled Tubular Driven Steel Pile.....	81.40	
		<i>For Piles Driven In Water, Add</i>	29.33	
31 62 16 19-0005	VLF	10" Diameter x 34 Lb./FT, Unfilled Tubular Driven Steel Pile.....	71.13	
		<i>For Piles Driven In Water, Add</i>	28.30	
31 62 16 19-0006	VLF	10" Diameter x 41 Lb./FT, Unfilled Tubular Driven Steel Pile.....	80.17	
		<i>For Piles Driven In Water, Add</i>	29.20	
31 62 16 19-0007	VLF	10" Diameter x 55 Lb./FT, Unfilled Tubular Driven Steel Pile.....	100.15	
		<i>For Piles Driven In Water, Add</i>	31.20	
31 62 16 19-0008	VLF	12" Diameter x 42 Lb./FT, Unfilled Tubular Driven Steel Pile.....	83.57	
		<i>For Piles Driven In Water, Add</i>	30.66	
31 62 16 19-0009	VLF	12" Diameter x 50 Lb./FT, Unfilled Tubular Driven Steel Pile.....	94.16	
		<i>For Piles Driven In Water, Add</i>	31.72	
31 62 16 19-0010	VLF	12" Diameter x 54 Lb./FT, Unfilled Tubular Driven Steel Pile.....	100.04	
		<i>For Piles Driven In Water, Add</i>	32.31	
31 62 16 19-0011	VLF	12" Diameter x 65 Lb./FT, Unfilled Tubular Driven Steel Pile.....	116.50	
		<i>For Piles Driven In Water, Add</i>	33.95	
31 62 16 19-0012	VLF	14" Diameter x 46 Lb./FT, Unfilled Tubular Driven Steel Pile.....	90.39	
		<i>For Piles Driven In Water, Add</i>	33.67	
31 62 16 19-0013	VLF	14" Diameter x 55 Lb./FT, Unfilled Tubular Driven Steel Pile.....	102.37	
		<i>For Piles Driven In Water, Add</i>	34.87	
31 62 16 19-0014	VLF	14" Diameter x 64 Lb./FT, Unfilled Tubular Driven Steel Pile.....	114.34	
		<i>For Piles Driven In Water, Add</i>	36.07	
31 62 16 19-0015	VLF	14" Diameter x 72 Lb./FT, Unfilled Tubular Driven Steel Pile.....	126.32	
		<i>For Piles Driven In Water, Add</i>	37.27	
31 62 16 19-0016	VLF	16" Diameter x 52 Lb./FT, Unfilled Tubular Driven Steel Pile.....	100.57	
		<i>For Piles Driven In Water, Add</i>	37.57	
31 62 16 19-0017	VLF	16" Diameter x 63 Lb./FT, Unfilled Tubular Driven Steel Pile.....	114.57	
		<i>For Piles Driven In Water, Add</i>	38.97	
31 62 16 19-0018	VLF	16" Diameter x 83 Lb./FT, Unfilled Tubular Driven Steel Pile.....	141.88	
		<i>For Piles Driven In Water, Add</i>	41.70	
31 62 16 19-0019	VLF	18" Diameter x 59 Lb./FT, Unfilled Tubular Driven Steel Pile.....	124.09	
		<i>For Piles Driven In Water, Add</i>	42.24	
31 62 16 19-0020	VLF	18" Diameter x 71 Lb./FT, Unfilled Tubular Driven Steel Pile.....	142.28	
		<i>For Piles Driven In Water, Add</i>	44.06	
31 62 16 19-0021	VLF	18" Diameter x 93 Lb./FT, Unfilled Tubular Driven Steel Pile.....	176.84	
		<i>For Piles Driven In Water, Add</i>	47.52	
31 62 16 19-0022		Splices And Points For Pipe Piles (31 62 16 19)		
31 62 16 19-0023		Steel Pipe Pile Splices (31 62 16 19-0022)		
31 62 16 19-0024	EA	8" Diameter, Steel Pipe Pile Splice.....	356.40	
31 62 16 19-0025	EA	10" Diameter, Steel Pipe Pile Splice.....	389.20	
31 62 16 19-0026	EA	12" Diameter, Steel Pipe Pile Splice.....	500.16	
31 62 16 19-0027	EA	14" Diameter, Steel Pipe Pile Splice.....	532.51	
31 62 16 19-0028	EA	16" Diameter, Steel Pipe Pile Splice.....	652.27	
31 62 16 19-0029	EA	18" Diameter, Steel Pipe Pile Splice.....	796.07	
31 62 16 19-0030		Steel Pipe Standard Pile Points (31 62 16 19-0022)		
31 62 16 19-0031	EA	8" Diameter, Steel Pipe Standard Pile Point.....	341.78	
31 62 16 19-0032	EA	10" Diameter, Steel Pipe Standard Pile Point.....	368.05	
31 62 16 19-0033	EA	12" Diameter, Steel Pipe Standard Pile Point.....	419.49	
31 62 16 19-0034	EA	14" Diameter, Steel Pipe Standard Pile Point.....	491.73	
31 62 16 19-0035	EA	16" Diameter, Steel Pipe Standard Pile Point.....	557.40	
31 62 16 19-0036	EA	18" Diameter, Steel Pipe Standard Pile Point.....	640.62	
31 62 16 19-0037		Steel Pipe Heavy-Duty Pile Points (31 62 16 19-0022)		



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Driven Piles	31 62

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0038	EA		10" Diameter, Steel Pipe Heavy-Duty Pile Point.....	493.36	
31 62 16 19-0039	EA		12" Diameter, Steel Pipe Heavy-Duty Pile Point.....	526.19	
31 62 16 19-0040	EA		14" Diameter, Steel Pipe Heavy-Duty Pile Point.....	594.05	
31 62 16 19-0041	EA		16" Diameter, Steel Pipe Heavy-Duty Pile Point.....	725.39	
31 62 16 19-0042	EA		18" Diameter, Steel Pipe Heavy-Duty Pile Point.....	832.31	

31 62 19 Timber Piles (31 62)**31 62 19 00-0001 Friction Or End Bearing, Driven Treated Wood Piles** (31 62 19)

Note: 12 Lb. Penta-treated/CF.

31 62 19 00-0002	LF	Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	42.60
		For Piles Driven In Water, Add	18.98
		For Untreated Pile, Deduct	-9.71
		For Each Pile Tip Point, Add	12.50
		For Each Pile Butt, Driving Cap, Add	20.10
		For Each Splice For Pile >50', Add	139.40
31 62 19 00-0003	LF	>30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	44.92
		For Piles Driven In Water, Add	21.03
		For Untreated Pile, Deduct	-9.82
		For Each Pile Tip Point, Add	12.50
		For Each Pile Butt, Driving Cap, Add	20.10
		For Each Splice For Pile >50', Add	139.40
31 62 19 00-0004	LF	39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	47.37
		For Piles Driven In Water, Add	22.40
		For Untreated Pile, Deduct	-10.27
		For Each Pile Tip Point, Add	12.50
		For Each Pile Butt, Driving Cap, Add	20.10
		For Each Splice For Pile >50', Add	139.40
31 62 19 00-0005	LF	>49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	51.06
		For Piles Driven In Water, Add	24.97
		For Untreated Pile, Deduct	-10.73
		For Each Pile Tip Point, Add	12.50
		For Each Pile Butt, Driving Cap, Add	20.10
		For Each Splice For Pile >50', Add	139.40
31 62 19 00-0006	LF	>59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	63.32
		For Piles Driven In Water, Add	28.40
		For Untreated Pile, Deduct	-14.36
		For Each Pile Tip Point, Add	12.50
		For Each Pile Butt, Driving Cap, Add	20.10
		For Each Splice For Pile >50', Add	139.40
31 62 19 00-0007	LF	>69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	79.05
		For Piles Driven In Water, Add	34.39
		For Untreated Pile, Deduct	-18.36
		For Each Pile Tip Point, Add	12.50
		For Each Pile Butt, Driving Cap, Add	20.10
		For Each Splice For Pile >50', Add	139.40

31 62 23 Composite Piles (31 62)**31 62 23 13 Concrete-Filled Steel Piles** (31 62 23)**31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles** (31 62 23 13)

Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.

31 62 23 13-0002	VLF	8" Diameter x 29 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	65.89
		For 5,000 PSI Concrete Grout Fill, Add	7.03
		For Piles Driven In Water, Add	29.62
31 62 23 13-0003	VLF	8" Diameter x 36 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	75.41
		For 5,000 PSI Concrete Grout Fill, Add	7.98
		For Piles Driven In Water, Add	30.57
31 62 23 13-0004	VLF	8" Diameter x 43 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	85.68
		For 5,000 PSI Concrete Grout Fill, Add	9.01
		For Piles Driven In Water, Add	31.60
31 62 23 13-0005	VLF	10" Diameter x 34 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	77.28
		For 5,000 PSI Concrete Grout Fill, Add	9.80
		For Piles Driven In Water, Add	31.26
31 62 23 13-0006	VLF	10" Diameter x 41 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	86.33
		For 5,000 PSI Concrete Grout Fill, Add	10.71
		For Piles Driven In Water, Add	32.17
31 62 23 13-0007	VLF	10" Diameter x 55 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	106.31
		For 5,000 PSI Concrete Grout Fill, Add	12.71
		For Piles Driven In Water, Add	34.17
31 62 23 13-0008	VLF	12" Diameter x 42 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	92.22
		For 5,000 PSI Concrete Grout Fill, Add	13.14
		For Piles Driven In Water, Add	34.75
31 62 23 13-0009	VLF	12" Diameter x 50 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	102.81
		For 5,000 PSI Concrete Grout Fill, Add	14.20
		For Piles Driven In Water, Add	35.81
31 62 23 13-0010	VLF	12" Diameter x 54 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	108.69
		For 5,000 PSI Concrete Grout Fill, Add	14.78
		For Piles Driven In Water, Add	36.39
31 62 23 13-0011	VLF	12" Diameter x 65 Lb./FT, Concrete-Filled Driven Steel Pipe Pile	125.15
		For 5,000 PSI Concrete Grout Fill, Add	16.43
		For Piles Driven In Water, Add	38.04

31	Earthwork
31 60	Special Foundations and Load-bearing Elements
31 62	Driven Piles



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0012	VLF	14" Diameter x 46 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	102.22 16.08 40.06	
31 62 23 13-0013	VLF	14" Diameter x 55 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	114.19 17.27 41.25	
31 62 23 13-0014	VLF	14" Diameter x 64 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	126.17 18.47 42.45	
31 62 23 13-0015	VLF	14" Diameter x 72 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	138.14 19.67 43.65	
31 62 23 13-0016	VLF	16" Diameter x 52 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	113.12 19.79 42.93	
31 62 23 13-0017	VLF	16" Diameter x 63 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	127.12 21.19 44.33	
31 62 23 13-0018	VLF	16" Diameter x 83 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	154.42 23.92 47.06	
31 62 23 13-0019	VLF	18" Diameter x 59 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	139.11 25.31 48.08	
31 62 23 13-0020	VLF	18" Diameter x 71 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	157.30 27.13 49.90	
31 62 23 13-0021	VLF	18" Diameter x 93 Lb./FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	191.86 30.59 53.36	
31 62 23 13-0022		7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles (31 62 23 13) Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0023	VLF	12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	85.16 26.17	
31 62 23 13-0024	VLF	14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	103.32 29.25	
31 62 23 13-0025	VLF	16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	116.95 32.06	
31 62 23 13-0026	VLF	18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	127.22 34.79	
31 62 23 13-0027		Tapered Friction Concrete-Filled Driven Steel Piles (31 62 23 13) Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0028	VLF	12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	83.54 26.01	
31 62 23 13-0029	VLF	14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	85.75 27.49	
31 62 23 13-0030	VLF	16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	104.63 30.83	
31 62 23 13-0031	VLF	18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile <i>For Piles Driven In Water, Add</i>	120.71 34.14	
31 62 23 13-0032		Thin Wall Shell Straight Sided Driven Steel Piles (31 62 23 13)		
31 62 23 13-0033	VLF	8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	50.23 19.92 0.08	
31 62 23 13-0034	VLF	10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	55.44 22.09 0.09	
31 62 23 13-0035	VLF	12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	60.62 24.27 0.10	
31 62 23 13-0036	VLF	14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	65.85 26.45 0.11	
31 62 23 13-0037	VLF	16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	71.07 28.63 0.12	
31 63		Bored Piles (31 60)		
31 63 36		Drilled Steel Piles (31 63)		
31 63 36 00-0001		Drill Hole (31 63 36) Note: Excludes removal of excess material.		
31 63 36 00-0002		Drilling Mobilization (31 63 36 00-0001)		
31 63 36 00-0003	EA	>12" To 24" Diameter Hole, Drilling Mobilization	1,092.68	
31 63 36 00-0004	EA	>24" Diameter Hole, Drilling Mobilization	1,456.91	



Earthwork		31
Special Foundations and Load-bearing Elements		31 60
Bored Piles		31 63

15

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0005		Drill Hole In Soil (31 63 36 00-0001)		
31 63 36 00-0006	LF	18" Diameter, Up To 24' Depth, Drilled/Augered Hole	60.53	
31 63 36 00-0007	LF	20" Diameter, Up To 24' Depth, Drilled/Augered Hole	70.38	
31 63 36 00-0008	LF	22" Diameter, Up To 24' Depth, Drilled/Augered Hole	82.69	
31 63 36 00-0009	LF	24" Diameter, Up To 24' Depth, Drilled/Augered Hole	97.47	
31 63 36 00-0010	LF	26" Diameter, Up To 24' Depth, Drilled/Augered Hole	105.35	
31 63 36 00-0011	LF	28" Diameter, Up To 24' Depth, Drilled/Augered Hole	115.92	
31 63 36 00-0012	LF	30" Diameter, Up To 24' Depth, Drilled/Augered Hole	126.96	
31 63 36 00-0013		Steel H Piles (31 63 36)		
31 63 36 00-0014		Placed In Drilled Hole, Rolled Steel H-Section Piles (31 63 36 00-0013)		
Note: Includes guides, bracing and alignment.				
31 63 36 00-0015	VLF	8" x 8" x 36 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	34.93	
		For >2,400 To 3,600, Deduct	-1.23	
		For >3,600 To 4,800, Deduct	-2.47	
		For >4,800 To 6,000, Deduct	-4.22	
		For >6,000, Deduct	-5.96	
31 63 36 00-0016	VLF	10" x 10" x 42 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	39.07	
		For >2,400 To 3,600, Deduct	-1.36	
		For >3,600 To 4,800, Deduct	-2.71	
		For >4,800 To 6,000, Deduct	-4.67	
		For >6,000, Deduct	-6.62	
31 63 36 00-0017	VLF	10" x 10" x 57 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	47.61	
		For >2,400 To 3,600, Deduct	-1.57	
		For >3,600 To 4,800, Deduct	-3.14	
		For >4,800 To 6,000, Deduct	-5.52	
		For >6,000, Deduct	-7.90	
31 63 36 00-0018	VLF	12" x 12" x 53 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	45.78	
		For >2,400 To 3,600, Deduct	-1.53	
		For >3,600 To 4,800, Deduct	-3.07	
		For >4,800 To 6,000, Deduct	-5.36	
		For >6,000, Deduct	-7.65	
31 63 36 00-0019	VLF	12" x 12" x 63 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	51.47	
		For >2,400 To 3,600, Deduct	-1.68	
		For >3,600 To 4,800, Deduct	-3.35	
		For >4,800 To 6,000, Deduct	-5.93	
		For >6,000, Deduct	-8.50	
31 63 36 00-0020	VLF	12" x 12" x 74 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	59.04	
		For >2,400 To 3,600, Deduct	-1.90	
		For >3,600 To 4,800, Deduct	-3.80	
		For >4,800 To 6,000, Deduct	-6.75	
		For >6,000, Deduct	-9.70	
31 63 36 00-0021	VLF	12" x 12" x 84 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	64.73	
		For >2,400 To 3,600, Deduct	-2.04	
		For >3,600 To 4,800, Deduct	-4.08	
		For >4,800 To 6,000, Deduct	-7.32	
		For >6,000, Deduct	-10.56	
31 63 36 00-0022	VLF	14" x 14" x 73 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	58.88	
		For >2,400 To 3,600, Deduct	-1.91	
		For >3,600 To 4,800, Deduct	-3.81	
		For >4,800 To 6,000, Deduct	-6.75	
		For >6,000, Deduct	-9.70	
31 63 36 00-0023	VLF	14" x 14" x 89 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	68.55	
		For >2,400 To 3,600, Deduct	-2.15	
		For >3,600 To 4,800, Deduct	-4.29	
		For >4,800 To 6,000, Deduct	-7.72	
		For >6,000, Deduct	-11.15	
31 63 36 00-0024	VLF	14" x 14" x 102 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	76.82	
		For >2,400 To 3,600, Deduct	-2.39	
		For >3,600 To 4,800, Deduct	-4.78	
		For >4,800 To 6,000, Deduct	-8.62	
		For >6,000, Deduct	-12.46	
31 63 36 00-0025	VLF	14" x 14" x 117 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	85.93	
		For >2,400 To 3,600, Deduct	-2.62	
		For >3,600 To 4,800, Deduct	-5.24	
		For >4,800 To 6,000, Deduct	-9.53	
		For >6,000, Deduct	-13.83	
31 63 36 00-0026		Welded Steel Stud Pins (31 63 36 00-0013)		
Note: Includes welding to steel piles.				
31 63 36 00-0027	EA	5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	14.54	
		For >50 To 150, Deduct	-0.67	
		For >150 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.76	
31 63 36 00-0028	EA	5/8" Diameter x 5" Long, Welded Steel Stud Pins	15.74	
		For >50 To 150, Deduct	-0.67	
		For >150 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.85	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 63 Bored Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0029 EA 5/8" Diameter x 7" Long, Welded Steel Stud Pins	16.90	
For >50 To 150, Deduct	-0.67	
For >150 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-2.18	
For >500, Deduct	-2.94	
31 63 36 00-0030 EA 3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	15.93	
For >50 To 150, Deduct	-0.70	
For >150 To 250, Deduct	-1.45	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.95	
31 63 36 00-0031 EA 3/4" Diameter x 5" Long, Welded Steel Stud Pins	17.75	
For >50 To 150, Deduct	-0.70	
For >150 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-3.09	
31 63 36 00-0032 EA 3/4" Diameter x 7" Long, Welded Steel Stud Pins	19.03	
For >50 To 150, Deduct	-0.70	
For >150 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-3.18	
31 63 36 00-0033 EA 7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	17.58	
For >50 To 150, Deduct	-0.73	
For >150 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-2.34	
For >500, Deduct	-3.14	
31 63 36 00-0034 EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins	20.55	
For >50 To 150, Deduct	-0.73	
For >150 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-3.37	
31 63 36 00-0035 EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins	22.00	
For >50 To 150, Deduct	-0.73	
For >150 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.56	
For >500, Deduct	-3.48	
31 63 36 00-0036 Concrete Fill (31 63 36)		
See CSI section 03 37 16 00-0001 for pumping equipment.		
31 63 36 00-0037 VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile	46.51	
31 63 36 00-0038 VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile	51.66	
31 63 36 00-0039 VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile	56.84	
31 63 36 00-0040 VLF 24" Diameter Hole Pumped Concrete Fill For Drilled Pile	62.01	
31 63 36 00-0041 VLF 26" Diameter Hole Pumped Concrete Fill For Drilled Pile	67.17	
31 63 36 00-0042 VLF 28" Diameter Hole Pumped Concrete Fill For Drilled Pile	72.33	
31 63 36 00-0043 VLF 30" Diameter Hole Pumped Concrete Fill For Drilled Pile	85.30	
31 64 Caissons (31 60)		
31 64 13 Box Caissons (31 64)		
31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water (31 64 13)		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0002 Caisson In Stable Ground (31 64 13 00-0001)		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0003 VLF 18" Diameter Caisson, No Casing Stable Ground, No Ground Water	62.25	
Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.		
For >50' To 100' Deep, Add	5.90	
For >100' To 150' Deep, Add	15.56	
For >150' To 200' Deep, Add	20.61	
For Right Angle Drilling, Add	16.96	
For >3 To 9, Deduct	-1.45	
For >9, Deduct	-3.00	
31 64 13 00-0004 VLF 24" Diameter Caisson, No Casing Stable Ground, No Ground Water	77.11	
Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.		
For >50' To 100' Deep, Add	8.00	
For >100' To 150' Deep, Add	19.28	
For >150' To 200' Deep, Add	26.38	
For Right Angle Drilling, Add	18.86	
For >3 To 9, Deduct	-2.44	
For >9, Deduct	-5.04	
31 64 13 00-0005 VLF 30" Diameter Caisson, No Casing Stable Ground, No Ground Water	108.14	
Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.		
For >50' To 100' Deep, Add	11.71	
For >100' To 150' Deep, Add	27.04	
For >150' To 200' Deep, Add	37.62	
For Right Angle Drilling, Add	24.92	
For >3 To 9, Deduct	-3.88	
For >9, Deduct	-8.02	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0006	VLF		36" Diameter Caisson, No Casing Stable Ground, No Ground Water 142.14 Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF. For >50' To 100' Deep, Add 15.90 For >100' To 150' Deep, Add 35.54 For >150' To 200' Deep, Add 50.08 For Right Angle Drilling, Add 31.15 For >3 To 9, Deduct -5.58 For >9, Deduct -11.53		
31 64 13 00-0007	VLF		42" Diameter Caisson, No Casing Stable Ground, No Ground Water 180.50 Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF. For >50' To 100' Deep, Add 20.94 For >100' To 150' Deep, Add 45.13 For >150' To 200' Deep, Add 64.54 For Right Angle Drilling, Add 37.21 For >3 To 9, Deduct -7.79 For >9, Deduct -16.10		
31 64 13 00-0008	VLF		48" Diameter Caisson No Casing Stable Ground, No Ground Water 216.66 Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF. For >50' To 100' Deep, Add 25.63 For >100' To 150' Deep, Add 54.17 For >150' To 200' Deep, Add 78.08 For Right Angle Drilling, Add 43.13 For >3 To 9, Deduct -9.81 For >9, Deduct -20.28		
31 64 13 00-0009	VLF		54" Diameter Caisson No Casing Stable Ground, No Ground Water 259.45 Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF. For >50' To 100' Deep, Add 31.67 For >100' To 150' Deep, Add 64.66 For >150' To 200' Deep, Add 94.72 For Right Angle Drilling, Add 48.60 For >3 To 9, Deduct -12.66 For >9, Deduct -26.17		
31 64 13 00-0010	VLF		60" Diameter Caisson No Casing Stable Ground, No Ground Water 303.26 Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF. For >50' To 100' Deep, Add 37.86 For >100' To 150' Deep, Add 75.82 For >150' To 200' Deep, Add 111.77 For Right Angle Drilling, Add 54.17 For >3 To 9, Deduct -15.59 For >9, Deduct -32.22		
31 64 13 00-0011	VLF		66" Diameter Caisson No Casing Stable Ground, No Ground Water 352.85 Note: 0.88 CY Concrete per VLF, 113 Lb. rebar per VLF. For >50' To 100' Deep, Add 44.82 For >100' To 150' Deep, Add 88.21 For >150' To 200' Deep, Add 131.01 For Right Angle Drilling, Add 60.62 For >3 To 9, Deduct -18.86 For >9, Deduct -38.99		
31 64 13 00-0012	VLF		72" Diameter Caisson No Casing Stable Ground, No Ground Water 409.47 Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF. For >50' To 100' Deep, Add 52.84 For >100' To 150' Deep, Add 102.37 For >150' To 200' Deep, Add 153.06 For Right Angle Drilling, Add 67.77 For >3 To 9, Deduct -22.66 For >9, Deduct -46.83		
31 64 13 00-0013	VLF		78" Diameter Caisson No Casing Stable Ground, No Ground Water 465.77 Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF. For >50' To 100' Deep, Add 60.97 For >100' To 150' Deep, Add 116.44 For >150' To 200' Deep, Add 175.19 For Right Angle Drilling, Add 74.36 For >3 To 9, Deduct -26.60 For >9, Deduct -54.97		
31 64 13 00-0014	VLF		84" Diameter Caisson No Casing Stable Ground, No Ground Water 525.74 Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF. For >50' To 100' Deep, Add 69.70 For >100' To 150' Deep, Add 131.44 For >150' To 200' Deep, Add 198.85 For Right Angle Drilling, Add 81.19 For >3 To 9, Deduct -30.85 For >9, Deduct -63.75		
31 64 13 00-0015			For Bell Excavation And Concrete, Add (31 64 13 00-0001)		
31 64 13 00-0016	EA		Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY 494.07 For >50' To 100' Deep, Add 39.77 For >100' To 150' Deep, Add 123.52 For >150' To 200' Deep, Add 154.71 For >3 To 9, Deduct -4.66 For >9, Deduct -10.05		
31 64 13 00-0017	EA		Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY 1,736.63 For >50' To 100' Deep, Add 140.01 For >100' To 150' Deep, Add 434.16 For >150' To 200' Deep, Add 544.05 For >3 To 9, Deduct -17.30 For >9, Deduct -35.75		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0018	EA	Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY	2,622.95	
		For >50' To 100' Deep, Add	214.64	
		For >100' To 150' Deep, Add	655.74	
		For >150' To 200' Deep, Add	825.68	
		For >3 To 9, Deduct	-29.10	
		For >9, Deduct	-60.14	
31 64 13 00-0019	EA	Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY	3,640.26	
		For >50' To 100' Deep, Add	298.44	
		For >100' To 150' Deep, Add	910.07	
		For >150' To 200' Deep, Add	1,146.61	
		For >3 To 9, Deduct	-40.90	
		For >9, Deduct	-84.52	
31 64 13 00-0020	EA	Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY	4,947.96	
		For >50' To 100' Deep, Add	398.82	
		For >100' To 150' Deep, Add	1,236.99	
		For >150' To 200' Deep, Add	1,549.97	
		For >3 To 9, Deduct	-49.19	
		For >9, Deduct	-101.65	
31 64 13 00-0021	EA	Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY	5,818.30	
		For >50' To 100' Deep, Add	468.78	
		For >100' To 150' Deep, Add	1,454.58	
		For >150' To 200' Deep, Add	1,822.36	
		For >3 To 9, Deduct	-57.66	
		For >9, Deduct	-119.15	
31 64 13 00-0022	EA	Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY	9,869.50	
		For >50' To 100' Deep, Add	793.68	
		For >100' To 150' Deep, Add	2,467.38	
		For >150' To 200' Deep, Add	3,089.37	
		For >3 To 9, Deduct	-96.39	
		For >9, Deduct	-199.21	
31 64 13 00-0023	EA	Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY	14,257.14	
		For >50' To 100' Deep, Add	1,157.51	
		For >100' To 150' Deep, Add	3,564.29	
		For >150' To 200' Deep, Add	4,476.53	
		For >3 To 9, Deduct	-149.54	
		For >9, Deduct	-309.06	
31 64 13 00-0024		Caisson In Wet Ground, Casing Pulled ^(31 64 13)		
		Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0025		Caisson In Wet Ground ^(31 64 13 00-0024)		
		Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0026	VLF	18" Diameter Caisson Wet Ground, Casing Pulled.....	69.43	
		Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	6.40	
		For >100' To 150' Deep, Add	17.36	
		For >150' To 200' Deep, Add	22.75	
		For Right Angle Drilling, Add	19.49	
		For >3 To 9, Deduct	-1.44	
		For >9, Deduct	-2.98	
31 64 13 00-0027	VLF	24" Diameter Caisson Wet Ground, Casing Pulled.....	116.17	
		Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	10.73	
		For >100' To 150' Deep, Add	29.04	
		For >150' To 200' Deep, Add	38.10	
		For Right Angle Drilling, Add	32.53	
		For >3 To 9, Deduct	-2.44	
		For >9, Deduct	-5.04	
31 64 13 00-0028	VLF	30" Diameter Caisson Wet Ground, Casing Pulled.....	152.14	
		Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	14.79	
		For >100' To 150' Deep, Add	38.04	
		For >150' To 200' Deep, Add	50.82	
		For Right Angle Drilling, Add	40.32	
		For >3 To 9, Deduct	-3.88	
		For >9, Deduct	-8.02	
31 64 13 00-0029	VLF	36" Diameter Caisson Wet Ground, Casing Pulled.....	208.27	
		Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	20.53	
		For >100' To 150' Deep, Add	52.07	
		For >150' To 200' Deep, Add	69.92	
		For Right Angle Drilling, Add	54.30	
		For >3 To 9, Deduct	-5.58	
		For >9, Deduct	-11.53	
31 64 13 00-0030	VLF	42" Diameter Caisson Wet Ground, Casing Pulled.....	262.07	
		Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.		
		For >50' To 100' Deep, Add	26.65	
		For >100' To 150' Deep, Add	65.52	
		For >150' To 200' Deep, Add	89.01	
		For Right Angle Drilling, Add	65.76	
		For >3 To 9, Deduct	-7.79	
		For >9, Deduct	-16.10	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0031	VLF	48" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	313.37 32.40 78.34 107.09 76.97 -9.81 -20.28	
31 64 13 00-0032	VLF	54" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	404.17 41.80 101.04 138.14 99.25 -12.66 -26.17	
31 64 13 00-0033	VLF	60" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	494.75 51.26 123.69 169.21 121.19 -15.59 -32.22	
31 64 13 00-0034	VLF	66" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.87 CY Concrete per VLF, 113 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	562.31 59.48 140.58 193.85 133.93 -18.86 -38.99	
31 64 13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	636.84 68.75 159.21 221.27 147.35 -22.66 -46.83	
31 64 13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	722.78 78.97 180.70 252.30 164.32 -26.60 -54.97	
31 64 13 00-0037	VLF	84" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	812.90 89.81 203.23 285.00 181.70 -30.85 -63.75	
31 64 13 00-0038		For Bell Excavation And Concrete, Add (31 64 13 00-0024)		
31 64 13 00-0039	EA	Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	571.95 45.23 142.99 178.07 -4.86 -10.05	
31 64 13 00-0040	EA	Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	1,992.11 157.90 498.03 620.70 -17.30 -35.75	
31 64 13 00-0041	EA	Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	2,755.38 204.70 688.85 841.39 -11.08 -22.90	
31 64 13 00-0042	EA	Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	4,372.54 349.70 1,093.14 1,366.29 -40.90 -84.52	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0043 EA Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY.....	5,676.06	
For >50' To 100' Deep, Add	449.79	
For >100' To 150' Deep, Add	1,419.02	
For >150' To 200' Deep, Add	1,768.40	
For >3 To 9, Deduct	-49.19	
For >9, Deduct	-101.65	
31 64 13 00-0044 EA Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY.....	6,674.89	
For >50' To 100' Deep, Add	528.74	
For >100' To 150' Deep, Add	1,668.72	
For >150' To 200' Deep, Add	2,079.34	
For >3 To 9, Deduct	-57.66	
For >9, Deduct	-119.15	
31 64 13 00-0045 EA Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY.....	11,325.70	
For >50' To 100' Deep, Add	895.62	
For >100' To 150' Deep, Add	2,831.43	
For >150' To 200' Deep, Add	3,526.23	
For >3 To 9, Deduct	-96.39	
For >9, Deduct	-199.21	
31 64 13 00-0046 EA Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY.....	16,337.42	
For >50' To 100' Deep, Add	1,303.13	
For >100' To 150' Deep, Add	4,084.36	
For >150' To 200' Deep, Add	5,100.62	
For >3 To 9, Deduct	-149.54	
For >9, Deduct	-309.06	
31 64 13 00-0047 Caisson In Soft Rock And Medium Hard Shale ^(31 64 13)		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048 Caisson In Soft Rock ^(31 64 13 00-0047)		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049 VLF 18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	275.53	
Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.		
For Right Angle Drilling, Add	91.63	
For >3 To 9, Deduct	-1.44	
For >9, Deduct	-2.98	
31 64 13 00-0050 VLF 24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	459.72	
Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.		
For Right Angle Drilling, Add	152.78	
For >3 To 9, Deduct	-2.44	
For >9, Deduct	-5.04	
31 64 13 00-0051 VLF 30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	692.48	
Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.		
For Right Angle Drilling, Add	229.44	
For >3 To 9, Deduct	-3.88	
For >9, Deduct	-8.02	
31 64 13 00-0052 VLF 36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	883.77	
Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.		
For Right Angle Drilling, Add	290.72	
For >3 To 9, Deduct	-5.58	
For >9, Deduct	-11.53	
31 64 13 00-0053 VLF 42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,139.29	
Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.		
For >50' To 100' Deep, Add	88.06	
For >100' To 150' Deep, Add	284.82	
For >150' To 200' Deep, Add	352.17	
For Right Angle Drilling, Add	372.79	
For >3 To 9, Deduct	-7.79	
For >9, Deduct	-16.10	
31 64 13 00-0054 VLF 48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,373.33	
Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.		
For Right Angle Drilling, Add	447.96	
For >3 To 9, Deduct	-9.81	
For >9, Deduct	-20.28	
31 64 13 00-0055 VLF 54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,678.06	
Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF.		
For >50' To 100' Deep, Add	130.97	
For >100' To 150' Deep, Add	419.52	
For >150' To 200' Deep, Add	520.30	
For Right Angle Drilling, Add	545.11	
For >3 To 9, Deduct	-12.66	
For >9, Deduct	-26.17	
31 64 13 00-0056 VLF 60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,982.85	
Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF.		
For Right Angle Drilling, Add	642.03	
For >3 To 9, Deduct	-15.59	
For >9, Deduct	-32.22	
31 64 13 00-0057 VLF 66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,174.92	
Note: 0.88 CY Concrete per VLF, 113 Lb. rebar per VLF.		
For >50' To 100' Deep, Add	172.37	
For >100' To 150' Deep, Add	543.73	
For >150' To 200' Deep, Add	677.63	
For Right Angle Drilling, Add	698.33	
For >3 To 9, Deduct	-18.87	
For >9, Deduct	-38.99	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0058 VLF 72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,373.00	
Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF.		
For Right Angle Drilling, Add	755.01	
For >3 To 9, Deduct	-22.66	
For >9, Deduct	-46.83	
31 64 13 00-0059 VLF 78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,425.47	
Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF.		
For >50' To 100' Deep, Add	198.15	
For >100' To 150' Deep, Add	606.37	
For >150' To 200' Deep, Add	763.10	
For Right Angle Drilling, Add	760.26	
For >3 To 9, Deduct	-26.60	
For >9, Deduct	-54.97	
31 64 13 00-0060 VLF 84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,897.86	
Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF.		
For Right Angle Drilling, Add	911.43	
For >3 To 9, Deduct	-30.85	
For >9, Deduct	-63.75	

31 64 13 00-0061 For Bell Excavation And Concrete, Add (31 64 13 00-0047)

31 64 13 00-0062 EA Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY	986.01	
For >3 To 9, Deduct	-4.86	
For >9, Deduct	-10.05	
31 64 13 00-0063 EA Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY	3,469.48	
For >3 To 9, Deduct	-17.30	
For >9, Deduct	-35.75	
31 64 13 00-0064 EA Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY	5,194.69	
For >3 To 9, Deduct	-29.10	
For >9, Deduct	-60.14	
31 64 13 00-0065 EA Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY	7,396.76	
For >3 To 9, Deduct	-40.90	
For >9, Deduct	-84.52	
31 64 13 00-0066 EA Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY	9,783.52	
For >3 To 9, Deduct	-49.19	
For >9, Deduct	-101.65	
31 64 13 00-0067 EA Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY	11,924.81	
For >3 To 9, Deduct	-57.66	
For >9, Deduct	-119.15	
31 64 13 00-0068 EA Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY	18,019.33	
For >3 To 9, Deduct	-96.39	
For >9, Deduct	-199.21	
31 64 13 00-0069 EA Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY	27,095.07	
For >3 To 9, Deduct	-149.54	
For >9, Deduct	-309.06	

31 64 13 00-0070 Set-up And Removal Of Caisson (31 64 13)

Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.

31 64 13 00-0071 EA Erect, Set-up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete	4,633.58	
For >3 To 9, Deduct	-16.50	
For >9, Deduct	-34.11	
31 64 13 00-0072 EA Erect, Set-up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	6,471.48	
For >3 To 9, Deduct	-44.01	
For >9, Deduct	-90.95	
31 64 13 00-0073 EA Dismantle, Relocate, Erect And Set-up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter	2,206.77	
31 64 13 00-0074 EA Dismantle, Relocate, Erect And Set-up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter	2,942.36	
31 64 13 00-0075 EA Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	183.90	

31 66 Special Foundation (31 60)

31 66 15 Helical Foundation Piles (31 66)

31 66 15 00-0001 Helical Pier Restoration (Atlas) (31 66 15)

31 66 15 00-0002 EA Structural Steel Piers (Atlas Pier System Or Equal)	4,162.98	
Note: Includes heavy-duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling		
For >3 To 9, Deduct	-285.51	
For >9, Deduct	-590.06	
31 66 15 00-0003 EA Pressure Injecting Grout For Slab Repairs, Per Location	494.55	
Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.		
For >3 To 9, Deduct	-32.28	
For >9, Deduct	-66.72	
31 66 15 00-0004 CY Pressure Injected Non-Shrink Grout	508.80	
For >3 To 9, Deduct	-32.28	
For >9, Deduct	-66.72	

31 68 Foundation Anchors (31 60)

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 68 13 Rock Foundation Anchors (31 68)**31 68 13 00-0001 Materials And Placement (31 68 13)****31 68 13 00-0002 Hollow Core Prestressable Anchor, ASTM A615 (31 68 13 00-0001)**

Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.

31 68 13 00-0003 3/4" Diameter (31 68 13 00-0002)

31 68 13 00-0004	EA	3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	263.35	
		For>3 To 9, Deduct	-13.07	
		For>9, Deduct	-27.02	
31 68 13 00-0005	EA	3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	379.49	
		For>3 To 9, Deduct	-19.56	
		For>9, Deduct	-40.42	
31 68 13 00-0006	EA	3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	465.95	
		For>3 To 9, Deduct	-26.04	
		For>9, Deduct	-53.82	
31 68 13 00-0007	EA	3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	611.77	
		For>3 To 9, Deduct	-32.53	
		For>9, Deduct	-67.22	

31 68 13 00-0008 1" Diameter (31 68 13 00-0002)

31 68 13 00-0009	EA	1" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	335.61	
		For>3 To 9, Deduct	-18.49	
		For>9, Deduct	-38.22	
31 68 13 00-0010	EA	1" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	518.44	
		For>3 To 9, Deduct	-29.98	
		For>9, Deduct	-61.96	
31 68 13 00-0011	EA	1" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	671.59	
		For>3 To 9, Deduct	-41.47	
		For>9, Deduct	-85.69	
31 68 13 00-0012	EA	1" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	884.15	
		For>3 To 9, Deduct	-52.96	
		For>9, Deduct	-109.44	

31 68 13 00-0013 1-3/8" Diameter (31 68 13 00-0002)

31 68 13 00-0014	EA	1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	558.43	
		For>3 To 9, Deduct	-35.20	
		For>9, Deduct	-72.76	
31 68 13 00-0015	EA	1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	869.04	
		For>3 To 9, Deduct	-56.27	
		For>9, Deduct	-116.30	
31 68 13 00-0016	EA	1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	1,150.01	
		For>3 To 9, Deduct	-77.35	
		For>9, Deduct	-159.85	
31 68 13 00-0017	EA	1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	1,490.29	
		For>3 To 9, Deduct	-98.42	
		For>9, Deduct	-203.39	

31 68 13 00-0018 2" Diameter (31 68 13 00-0002)

31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	1,236.10	
		For>3 To 9, Deduct	-86.03	
		For>9, Deduct	-177.79	
31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	1,838.55	
		For>3 To 9, Deduct	-128.99	
		For>9, Deduct	-266.57	
31 68 13 00-0021	EA	2" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	2,411.24	
		For>3 To 9, Deduct	-171.94	
		For>9, Deduct	-355.34	
31 68 13 00-0022	EA	2" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	3,043.37	
		For>3 To 9, Deduct	-214.90	
		For>9, Deduct	-444.12	

31 68 13 00-0023 Super High-Tensile Anchors, ASTM A-108 (31 68 13 00-0001)

Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.

31 68 13 00-0024 3/4" Diameter (31 68 13 00-0023)

31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor.....	190.22	
		For>3 To 9, Deduct	-7.59	
		For>9, Deduct	-15.68	
31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor.....	253.79	
		For>3 To 9, Deduct	-10.13	
		For>9, Deduct	-20.94	
31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor.....	287.54	
		For>3 To 9, Deduct	-12.66	
		For>9, Deduct	-26.17	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Foundation Anchors	31 68

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0028 EA 3/4" Rock Bolt, 20' Super High-Tensile Anchor.....	378.24	
For >3 To 9, Deduct	-15.01	
For >9, Deduct	-31.02	
31 68 13 00-0029 1" Diameter (31 68 13 00-0023)		
31 68 13 00-0030 EA 1" Rock Bolt, 5' Super High-Tensile Anchor.....	227.73	
For >3 To 9, Deduct	-10.40	
For >9, Deduct	-21.50	
31 68 13 00-0031 EA 1" Rock Bolt, 10' Super High-Tensile Anchor.....	316.98	
For >3 To 9, Deduct	-14.87	
For >9, Deduct	-30.73	
31 68 13 00-0032 EA 1" Rock Bolt, 15' Super High-Tensile Anchor.....	373.53	
For >3 To 9, Deduct	-19.11	
For >9, Deduct	-39.50	
31 68 13 00-0033 EA 1" Rock Bolt, 20' Super High-Tensile Anchor.....	489.44	
For >3 To 9, Deduct	-23.35	
For >9, Deduct	-48.26	
31 68 13 00-0034 1-1/4" Diameter (31 68 13 00-0023)		
31 68 13 00-0035 EA 1-1/4" Rock Bolt, 5' Super High-Tensile Anchor	337.89	
For >3 To 9, Deduct	-18.66	
For >9, Deduct	-38.57	
31 68 13 00-0036 EA 1-1/4" Rock Bolt, 10' Super High-Tensile Anchor	474.88	
For >3 To 9, Deduct	-26.71	
For >9, Deduct	-55.20	
31 68 13 00-0037 EA 1-1/4" Rock Bolt, 15' Super High-Tensile Anchor	581.51	
For >3 To 9, Deduct	-34.71	
For >9, Deduct	-71.73	
31 68 13 00-0038 EA 1-1/4" Rock Bolt, 20' Super High-Tensile Anchor	743.04	
For >3 To 9, Deduct	-42.37	
For >9, Deduct	-87.57	
31 68 13 00-0039 2" Diameter (31 68 13 00-0023)		
31 68 13 00-0040 EA 2" Rock Bolt, 5' Super High-Tensile Anchor.....	898.62	
For >3 To 9, Deduct	-60.72	
For >9, Deduct	-125.48	
31 68 13 00-0041 EA 2" Rock Bolt, 10' Super High-Tensile Anchor.....	1,278.04	
For >3 To 9, Deduct	-86.95	
For >9, Deduct	-179.69	
31 68 13 00-0042 EA 2" Rock Bolt, 15' Super High-Tensile Anchor.....	1,562.42	
For >3 To 9, Deduct	-108.28	
For >9, Deduct	-223.77	
31 68 13 00-0043 EA 2" Rock Bolt, 20' Super High-Tensile Anchor.....	1,923.38	
For >3 To 9, Deduct	-130.90	
For >9, Deduct	-270.52	
31 68 13 00-0044 Solid Rebar Anchors, ASTM A615 (31 68 13 00-0001)		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045 3/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0046 EA 3/4" Rock Bolt, 5' Solid Rebar Anchor	178.18	
For >3 To 9, Deduct	-6.69	
For >9, Deduct	-13.82	
31 68 13 00-0047 EA 3/4" Rock Bolt, 10' Solid Rebar Anchor	228.32	
For >3 To 9, Deduct	-8.22	
For >9, Deduct	-16.99	
31 68 13 00-0048 EA 3/4" Rock Bolt, 15' Solid Rebar Anchor	248.74	
For >3 To 9, Deduct	-9.75	
For >9, Deduct	-20.15	
31 68 13 00-0049 EA 3/4" Rock Bolt, 20' Solid Rebar Anchor	328.56	
For >3 To 9, Deduct	-11.29	
For >9, Deduct	-23.32	
31 68 13 00-0050 1" Diameter (31 68 13 00-0044)		
31 68 13 00-0051 EA 1" Rock Bolt, 5' Solid Rebar Anchor	201.36	
For >3 To 9, Deduct	-8.42	
For >9, Deduct	-17.41	
31 68 13 00-0052 EA 1" Rock Bolt, 10' Solid Rebar Anchor	266.65	
For >3 To 9, Deduct	-11.09	
For >9, Deduct	-22.93	
31 68 13 00-0053 EA 1" Rock Bolt, 15' Solid Rebar Anchor	302.31	
For >3 To 9, Deduct	-13.77	
For >9, Deduct	-28.46	
31 68 13 00-0054 EA 1" Rock Bolt, 20' Solid Rebar Anchor	397.24	
For >3 To 9, Deduct	-16.44	
For >9, Deduct	-33.97	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
31 68 13 00-0055		1-1/4" Diameter (31 68 13 00-0044)			
31 68 13 00-0056	EA	1-1/4" Rock Bolt, 5' Solid Rebar Anchor	294.08		
		For >3 To 9, Deduct	-15.38		
		For >9, Deduct	-31.78		
31 68 13 00-0057	EA	1-1/4" Rock Bolt, 10' Solid Rebar Anchor	379.40		
		For >3 To 9, Deduct	-19.55		
		For >9, Deduct	-40.41		
31 68 13 00-0058	EA	1-1/4" Rock Bolt, 15' Solid Rebar Anchor	435.17		
		For >3 To 9, Deduct	-23.73		
		For >9, Deduct	-49.05		
31 68 13 00-0059	EA	1-1/4" Rock Bolt, 20' Solid Rebar Anchor	550.26		
		For >3 To 9, Deduct	-27.91		
		For >9, Deduct	-57.69		
31 68 13 00-0060		Resin Anchoring With Grade 60 Rebar (31 68 13 00-0001)			
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.			
31 68 13 00-0061		Rebar #6 (31 68 13 00-0060)			
31 68 13 00-0062	EA	#6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar	96.81		
		For >3 To 9, Deduct	-0.58		
		For >9, Deduct	-1.20		
31 68 13 00-0063	EA	#6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar	134.26		
		For >3 To 9, Deduct	-1.17		
		For >9, Deduct	-2.41		
31 68 13 00-0064	EA	#6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar	142.03		
		For >3 To 9, Deduct	-1.75		
		For >9, Deduct	-3.61		
31 68 13 00-0065	EA	#6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	193.62		
		For >3 To 9, Deduct	-1.17		
		For >9, Deduct	-2.41		
31 68 13 00-0066		Rebar #8 (31 68 13 00-0060)			
31 68 13 00-0067	EA	#8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	102.85		
		For >3 To 9, Deduct	-1.04		
		For >9, Deduct	-2.14		
31 68 13 00-0068	EA	#8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	146.35		
		For >3 To 9, Deduct	-2.07		
		For >9, Deduct	-4.28		
31 68 13 00-0069	EA	#8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	160.16		
		For >3 To 9, Deduct	-3.11		
		For >9, Deduct	-6.42		
31 68 13 00-0070	EA	#8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	233.33		
		For >3 To 9, Deduct	-4.14		
		For >9, Deduct	-8.56		
31 68 13 00-0071		Rebar #10 (31 68 13 00-0060)			
31 68 13 00-0072	EA	#10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	111.49		
		For >3 To 9, Deduct	-1.68		
		For >9, Deduct	-3.48		
31 68 13 00-0073	EA	#10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	163.61		
		For >3 To 9, Deduct	-3.37		
		For >9, Deduct	-6.96		
31 68 13 00-0074	EA	#10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	186.06		
		For >3 To 9, Deduct	-5.05		
		For >9, Deduct	-10.44		
31 68 13 00-0075	EA	#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	267.87		
		For >3 To 9, Deduct	-6.73		
		For >9, Deduct	-13.92		
31 68 13 00-0076		Rebar #14 (31 68 13 00-0060)			
31 68 13 00-0077	EA	#14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	132.21		
		For >3 To 9, Deduct	-3.24		
		For >9, Deduct	-6.69		
31 68 13 00-0078	EA	#14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	205.05		
		For >3 To 9, Deduct	-6.47		
		For >9, Deduct	-13.38		
31 68 13 00-0079	EA	#14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	248.22		
		For >3 To 9, Deduct	-9.71		
		For >9, Deduct	-20.07		
31 68 13 00-0080	EA	#14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	350.75		
		For >3 To 9, Deduct	-12.95		
		For >9, Deduct	-26.76		
31 68 13 00-0081		Plastic Rebar Collars, Sizes #6-#14 (31 68 13 00-0060)			



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Foundation Anchors	31 68

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0082 EA Plastic Rebar Collars For Rebar #4 To #14	2.88	
For >3 To 9, Deduct	-0.22	
For >9, Deduct	-0.45	
31 68 13 00-0083 12" Long Resin Cartridges (31 68 13 00-0001)		
31 68 13 00-0084 EA 7/8" Resin Cartridge 12" Long	3.31	
For >3 To 9, Deduct	-0.25	
For >9, Deduct	-0.51	
31 68 13 00-0085 EA 1" Resin Cartridge 12" Long	4.54	
For >3 To 9, Deduct	-0.34	
For >9, Deduct	-0.70	
31 68 13 00-0086 EA 1-1/16" Resin Cartridge 12" Long	4.86	
For >3 To 9, Deduct	-0.36	
For >9, Deduct	-0.75	
31 68 13 00-0087 EA 1-1/4" Resin Cartridge 12" Long	5.25	
For >3 To 9, Deduct	-0.39	
For >9, Deduct	-0.81	
31 68 13 00-0088 EA 1-3/8" Resin Cartridge 12" Long	6.03	
For >3 To 9, Deduct	-0.45	
For >9, Deduct	-0.93	
31 68 13 00-0089 EA 1-9/16" Resin Cartridge 12" Long	7.56	
For >3 To 9, Deduct	-0.57	
For >9, Deduct	-1.17	
31 68 13 00-0090 EA 1-3/4" Resin Cartridge 12" Long	10.38	
For >3 To 9, Deduct	-0.78	
For >9, Deduct	-1.61	
31 68 13 00-0091 Head Assembly (31 68 13 00-0001)		
31 68 13 00-0092 3/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0093 EA 3/4" Rod Head Assembly 1-5/8" Short Cone and Shell	37.77	
For >3 To 9, Deduct	-2.83	
For >9, Deduct	-5.85	
31 68 13 00-0094 EA 3/4" Rod Head Assembly 1-3/4" Short Cone and Shell	31.81	
For >3 To 9, Deduct	-2.39	
For >9, Deduct	-4.93	
31 68 13 00-0095 EA 3/4" Rod Head Assembly 1-7/8" Short Cone and Shell	33.37	
For >3 To 9, Deduct	-2.50	
For >9, Deduct	-5.17	
31 68 13 00-0096 EA 3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	59.91	
For >3 To 9, Deduct	-4.49	
For >9, Deduct	-9.29	
31 68 13 00-0097 EA 3/4" Rod Head Assembly 1-7/8" Long Cone and Shell	59.91	
For >3 To 9, Deduct	-4.49	
For >9, Deduct	-9.29	
31 68 13 00-0098 EA 3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	56.76	
For >3 To 9, Deduct	-4.26	
For >9, Deduct	-8.80	
31 68 13 00-0099 1" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0100 EA 1" Rod Head Assembly 1-5/8" Short Cone and Shell	40.71	
For >3 To 9, Deduct	-3.05	
For >9, Deduct	-6.31	
31 68 13 00-0101 EA 1" Rod Head Assembly 1-3/4" Short Cone and Shell	34.84	
For >3 To 9, Deduct	-2.61	
For >9, Deduct	-5.40	
31 68 13 00-0102 EA 1" Rod Head Assembly 1-7/8" Short Cone and Shell	36.39	
For >3 To 9, Deduct	-2.73	
For >9, Deduct	-5.64	
31 68 13 00-0103 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell	63.02	
For >3 To 9, Deduct	-4.73	
For >9, Deduct	-9.77	
31 68 13 00-0104 EA 1" Rod Head Assembly 1-7/8" Long Cone and Shell	63.02	
For >3 To 9, Deduct	-4.73	
For >9, Deduct	-9.77	
31 68 13 00-0105 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell	60.09	
For >3 To 9, Deduct	-4.51	
For >9, Deduct	-9.31	
31 68 13 00-0106 1-1/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0107 EA 1-1/4" Rod Head Assembly 2" Short Cone and Shell	90.82	
For >3 To 9, Deduct	-6.81	
For >9, Deduct	-14.08	
31 68 13 00-0108 EA 1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell	106.10	
For >3 To 9, Deduct	-7.96	
For >9, Deduct	-16.45	
31 68 13 00-0109 EA 1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell	107.61	
For >3 To 9, Deduct	-8.07	
For >9, Deduct	-16.68	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0110	EA		1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell	95.44	
			For >3 To 9, Deduct	-7.16	
			For >9, Deduct	-14.79	
31 68 13 00-0111	EA		1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell	111.28	
			For >3 To 9, Deduct	-8.35	
			For >9, Deduct	-17.25	
31 68 13 00-0112			1-7/8" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0113	EA		1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl	357.46	
			For >3 To 9, Deduct	-26.81	
			For >9, Deduct	-55.41	
31 68 13 00-0114	EA		1-7/8" Rod Head Assembly 3" Long Cone and Shell	246.44	
			For >3 To 9, Deduct	-18.48	
			For >9, Deduct	-38.20	
31 68 13 00-0115			2" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0116	EA		2" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl	357.46	
			For >3 To 9, Deduct	-26.81	
			For >9, Deduct	-55.41	
31 68 13 00-0117	EA		2" Rod Head Assembly 3" Long Cone and Shell	246.44	
			For >3 To 9, Deduct	-18.48	
			For >9, Deduct	-38.20	
31 68 13 00-0118			Steel Plates With Standard Hole And Washers (31 68 13 00-0001)		
31 68 13 00-0119			Steel Plates (31 68 13 00-0118)		
31 68 13 00-0120	EA		1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer	3.94	
			For >3 To 9, Deduct	-0.30	
			For >9, Deduct	-0.61	
31 68 13 00-0121	EA		1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer	7.28	
			For >3 To 9, Deduct	-0.55	
			For >9, Deduct	-1.13	
31 68 13 00-0122	EA		3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer	10.14	
			For >3 To 9, Deduct	-0.76	
			For >9, Deduct	-1.57	
31 68 13 00-0123	EA		3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer	17.77	
			For >3 To 9, Deduct	-1.33	
			For >9, Deduct	-2.75	
31 68 13 00-0124	EA		1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer	6.90	
			For >3 To 9, Deduct	-0.52	
			For >9, Deduct	-1.07	
31 68 13 00-0125	EA		1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer	18.12	
			For >3 To 9, Deduct	-1.36	
			For >9, Deduct	-2.81	
31 68 13 00-0126	EA		3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer	30.08	
			For >3 To 9, Deduct	-2.26	
			For >9, Deduct	-4.66	
31 68 13 00-0127	EA		3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer	42.62	
			For >3 To 9, Deduct	-3.20	
			For >9, Deduct	-6.61	
31 68 13 00-0128	EA		1" x 4" x 7" Steel Plate For Rock Bolt With Washer	25.58	
			For >3 To 9, Deduct	-1.92	
			For >9, Deduct	-3.96	
31 68 13 00-0129	EA		1" x 9" x 9" Steel Plate For Rock Bolt With Washer	72.37	
			For >3 To 9, Deduct	-5.43	
			For >9, Deduct	-11.22	
31 68 13 00-0130	EA		1" x 12" x 12" Steel Plate For Rock Bolt With Washer	106.64	
			For >3 To 9, Deduct	-8.00	
			For >9, Deduct	-16.53	
31 68 13 00-0131	EA		1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer	46.81	
			For >3 To 9, Deduct	-3.51	
			For >9, Deduct	-7.26	
31 68 13 00-0132	EA		1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer	126.61	
			For >3 To 9, Deduct	-9.50	
			For >9, Deduct	-19.62	
31 68 13 00-0133	EA		1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer	63.32	
			For >3 To 9, Deduct	-4.75	
			For >9, Deduct	-9.81	
31 68 13 00-0134	EA		1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer	152.29	
			For >3 To 9, Deduct	-11.42	
			For >9, Deduct	-23.60	
31 68 13 00-0135	EA		1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer	69.89	
			For >3 To 9, Deduct	-5.24	
			For >9, Deduct	-10.83	
31 68 13 00-0136	EA		1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer	168.90	
			For >3 To 9, Deduct	-12.67	
			For >9, Deduct	-26.18	
31 68 13 00-0137			Hardened Washers (31 68 13 00-0118)		



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Foundation Anchors	31 68

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0138 EA Hardened Washer For 3/4" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	1.25 -0.09 -0.19	
31 68 13 00-0139 EA Hardened Washer For 1" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	1.73 -0.13 -0.27	
31 68 13 00-0140 EA Hardened Washer For 1-1/4" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	4.83 -0.36 -0.75	
31 68 13 00-0141 EA Hardened Washer For 2" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	12.04 -0.90 -1.87	
31 68 13 00-0142 Beveled Washers (31 68 13 00-0118)		
31 68 13 00-0143 EA Beveled Washer For 3/4" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	3.15 -0.24 -0.49	
31 68 13 00-0144 EA Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	3.11 -0.23 -0.48	
31 68 13 00-0145 EA Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	4.70 -0.35 -0.73	
31 68 13 00-0146 EA Beveled Washer For 1-1/2" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	20.12 -1.51 -3.12	
31 68 13 00-0147 EA Beveled Washer For 2" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	13.90 -1.04 -2.15	
31 68 13 00-0148 Hex Nuts (31 68 13 00-0118)		
31 68 13 00-0149 EA Hex Nut For 3/4" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	2.46 -0.18 -0.38	
31 68 13 00-0150 EA Hex Nut For 1" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	4.01 -0.30 -0.62	
31 68 13 00-0151 EA Hex Nut For 1-1/4" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	16.45 -1.23 -2.55	
31 68 13 00-0152 EA Hex Nut For 1-1/2" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	10.36 -0.78 -1.61	
31 68 13 00-0153 EA Hex Nut For 2" Diameter Rock Bolt For >3 To 9, Deduct For >9, Deduct	66.09 -4.96 -10.24	
31 68 13 00-0154 Drilling Operation For Rock Bolts (31 68 13)		
31 68 13 00-0155 Drill Holes For Rock Bolts (31 68 13 00-0154)		
31 68 13 00-0156 3/4" Diameter Bolt, 1-3/4" Hole (31 68 13 00-0155)		
31 68 13 00-0157 EA Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts.....	214.06	
31 68 13 00-0158 EA Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts.....	404.34	
31 68 13 00-0159 EA Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts.....	606.52	
31 68 13 00-0160 EA Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts.....	727.82	
31 68 13 00-0161 1" Diameter Bolt, 2" Hole (31 68 13 00-0155)		
31 68 13 00-0162 EA Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	279.94	
31 68 13 00-0163 EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	519.87	
31 68 13 00-0164 EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	727.82	
31 68 13 00-0165 EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	909.78	
31 68 13 00-0166 1-1/4" Diameter Bolt, 2-1/4" Hole (31 68 13 00-0155)		
31 68 13 00-0167 EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt.....	303.26	
31 68 13 00-0168 EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt.....	606.52	
31 68 13 00-0169 EA Drill 2-1/4" Diameter Hole x 15' long For 1-1/4" Diameter Rock Bolt.....	909.78	
31 68 13 00-0170 EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt.....	1,213.03	
31 68 13 00-0171 2" Diameter Bolt, 3-1/2" Hole (31 68 13 00-0155)		
31 68 13 00-0172 EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt.....	363.91	
31 68 13 00-0173 EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt.....	727.82	
31 68 13 00-0174 EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	1,213.03	
31 68 13 00-0175 EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt.....	1,819.55	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0176		Tools (31 68 13)		
31 68 13 00-0177		Hydraulic Jacks, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0178	EA	1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke.....	773.17	
		For >3 To 9, Deduct	-57.99	
		For >9, Deduct	-119.84	
31 68 13 00-0179	EA	1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke	1,139.41	
		For >3 To 9, Deduct	-85.46	
		For >9, Deduct	-176.61	
31 68 13 00-0180	EA	1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	1,911.49	
		For >3 To 9, Deduct	-143.36	
		For >9, Deduct	-296.28	
31 68 13 00-0181	EA	1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	2,861.75	
		For >3 To 9, Deduct	-214.63	
		For >9, Deduct	-443.57	
31 68 13 00-0182	EA	1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke	4,277.79	
		For >3 To 9, Deduct	-320.83	
		For >9, Deduct	-663.06	
31 68 13 00-0183		Torque Wrenches And Ratchet Adapter, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0184		0-500 Foot Pounds (0-678J) (31 68 13 00-0183)		
31 68 13 00-0185	EA	1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental.....	270.56	
		For >3 To 9, Deduct	-20.29	
		For >9, Deduct	-41.94	
31 68 13 00-0186	EA	Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds	169.59	
		For >3 To 9, Deduct	-12.72	
		For >9, Deduct	-26.29	
31 68 13 00-0187	EA	Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental	440.48	
		For >3 To 9, Deduct	-33.04	
		For >9, Deduct	-68.27	
31 68 13 00-0188		0-600 Foot Pounds (0-814J) (31 68 13 00-0183)		
31 68 13 00-0189	EA	0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental	307.18	
		For >3 To 9, Deduct	-23.04	
		For >9, Deduct	-47.61	
31 68 13 00-0190		Up To 1,000 Foot Pounds (0-1356J) (31 68 13 00-0183)		
31 68 13 00-0191	EA	1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental.....	589.95	
		For >3 To 9, Deduct	-44.25	
		For >9, Deduct	-91.44	
31 68 13 00-0192	EA	Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental	145.51	
		For >3 To 9, Deduct	-10.91	
		For >9, Deduct	-22.55	
31 68 13 00-0193	EA	Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental	735.46	
		For >3 To 9, Deduct	-55.16	
		For >9, Deduct	-114.00	
31 68 13 00-0194		Torque Multiplier, 4:1 Multiplier (31 68 13 00-0176)		
31 68 13 00-0195	EA	Torque Multiplier, 4 To 1 Ratio.....	755.58	
		For >3 To 9, Deduct	-56.67	
		For >9, Deduct	-117.11	
31 68 13 00-0196		Pneumatic Drive Torque Wrench (31 68 13 00-0176)		
31 68 13 00-0197	EA	Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J).....	1,616.75	
		For >3 To 9, Deduct	-121.26	
		For >9, Deduct	-250.60	
31 68 13 00-0198		Grouting (31 68 13)		
31 68 13 00-0199		Grouting With Pumps (31 68 13 00-0198)		
		Note: Grout material and labor only.		
31 68 13 00-0200	GAL	Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery.....	24.93	
		For >3 To 9, Deduct	-1.01	
		For >9, Deduct	-2.10	
31 68 13 00-0201	GAL	Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery	39.43	
		For >3 To 9, Deduct	-1.01	
		For >9, Deduct	-2.10	
31 68 13 00-0202	GAL	Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery	36.32	
		For >3 To 9, Deduct	-1.01	
		For >9, Deduct	-2.10	
31 68 13 00-0203		Grout Pumps, Monthly Rental (31 68 13 00-0198)		
31 68 13 00-0204	EA	Hand Grout Pump, Monthly Rental	170.69	
		For >3 To 9, Deduct	-12.80	
		For >9, Deduct	-26.46	



Earthwork		31	15
Special Foundations and Load-bearing Elements		31 60	
Foundation Anchors		31 68	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
31 68 13 00-0205	EA	Air Powered Programmable Feed Grout Pump Monthly Rental	1,435.89	
		For >3 To 9, Deduct	-107.69	
		For >9, Deduct	-222.56	
31 68 13 00-0206	EA	Air Powered, Piston Drive Grout Pump Monthly Rental.....	2,506.94	
		For >3 To 9, Deduct	-188.02	
		For >9, Deduct	-388.58	
31 68 13 00-0207		Rock Bolt Testing (31 68 13)		
31 68 13 00-0208	EA	Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing.....	638.29	
		For >3 To 9, Deduct	-47.87	
		For >9, Deduct	-98.93	

END OF SECTION 31

31	31	Earthwork
	31 60	Special Foundations and Load-bearing Elements
	31 68	Foundation Anchors



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Paving Cleaning		32 01 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements ⁽³²⁾

32 01 11 Paving Cleaning ^(32 01)

32 01 11 53 Paint Removal from Paving ^(32 01 11)

32 01 11 53-0001 Remove Painted Or Epoxy Pavement Markings ^(32 01 11 53)

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	2.38
		For Up To 250, Add	1.19
		For >250 To 1,000, Add	0.60
		For >5,000 To 10,000, Deduct	-0.36
		For >10,000 To 25,000, Deduct	-0.60
		For >25,000 To 50,000, Deduct	-0.83
		For >50,000, Deduct	-0.95
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.86
		For Up To 250, Add	1.43
		For >250 To 1,000, Add	0.72
		For >5,000 To 10,000, Deduct	-0.43
		For >10,000 To 25,000, Deduct	-0.72
		For >25,000 To 50,000, Deduct	-1.00
		For >50,000, Deduct	-1.14
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	3.44
		For Up To 250, Add	1.72
		For >250 To 1,000, Add	0.86
		For >5,000 To 10,000, Deduct	-0.52
		For >10,000 To 25,000, Deduct	-0.86
		For >25,000 To 50,000, Deduct	-1.20
		For >50,000, Deduct	-1.38
32 01 11 53-0005	LF	Removal Of 10" Wide Painted Or Epoxy Pavement Striping	3.27
		For Up To 250, Add	1.64
		For >250 To 1,000, Add	0.82
		For >5,000 To 10,000, Deduct	-0.49
		For >10,000 To 25,000, Deduct	-0.82
		For >25,000 To 50,000, Deduct	-1.14
		For >50,000, Deduct	-1.31
32 01 11 53-0006	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	4.12
		For Up To 250, Add	2.06
		For >250 To 1,000, Add	1.03
		For >5,000 To 10,000, Deduct	-0.62
		For >10,000 To 25,000, Deduct	-1.03
		For >25,000 To 50,000, Deduct	-1.44
		For >50,000, Deduct	-1.65
32 01 11 53-0007	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	4.12
		For Up To 250, Add	2.06
		For >250 To 1,000, Add	1.03
		For >5,000 To 10,000, Deduct	-0.62
		For >10,000 To 25,000, Deduct	-1.03
		For >25,000 To 50,000, Deduct	-1.44
		For >50,000, Deduct	-1.65

32 01 11 53-0008 Remove Thermoplastic Pavement Markings ^(32 01 11 53)

32 01 11 53-0009	LF	Removal Of 4" Wide Thermoplastic Pavement Striping	3.07
		For Up To 250, Add	1.54
		For >250 To 1,000, Add	0.77
		For >5,000 To 10,000, Deduct	-0.46
		For >10,000 To 25,000, Deduct	-0.77
		For >25,000 To 50,000, Deduct	-1.07
		For >50,000, Deduct	-1.23
32 01 11 53-0010	LF	Removal Of 6" Wide Thermoplastic Pavement Striping	3.62
		For Up To 250, Add	1.81
		For >250 To 1,000, Add	0.91
		For >5,000 To 10,000, Deduct	-0.54
		For >10,000 To 25,000, Deduct	-0.91
		For >25,000 To 50,000, Deduct	-1.27
		For >50,000, Deduct	-1.45
32 01 11 53-0011	LF	Removal Of 8" Wide Thermoplastic Pavement Striping	4.37
		For Up To 250, Add	2.19
		For >250 To 1,000, Add	1.09
		For >5,000 To 10,000, Deduct	-0.66
		For >10,000 To 25,000, Deduct	-1.09
		For >25,000 To 50,000, Deduct	-1.53
		For >50,000, Deduct	-1.75
32 01 11 53-0012	LF	Removal Of 10" Wide Thermoplastic Pavement Striping	4.18
		For Up To 250, Add	2.09
		For >250 To 1,000, Add	1.05
		For >5,000 To 10,000, Deduct	-0.63
		For >10,000 To 25,000, Deduct	-1.05
		For >25,000 To 50,000, Deduct	-1.46
		For >50,000, Deduct	-1.67

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 11 Paving Cleaning**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 11 53-0013 LF Removal Of 12" Wide Thermoplastic Pavement Striping.....	5.23	
For Up To 250, Add	2.62	
For >250 To 1,000, Add	1.31	
For >5,000 To 10,000, Deduct	-0.78	
For >10,000 To 25,000, Deduct	-1.31	
For >25,000 To 50,000, Deduct	-1.83	
For >50,000, Deduct	-2.09	
32 01 11 53-0014 SF Removal Of Thermoplastic Pavement Marking, Letters Or Symbols.....	5.23	
For Up To 250, Add	2.62	
For >250 To 1,000, Add	1.31	
For >5,000 To 10,000, Deduct	-0.78	
For >10,000 To 25,000, Deduct	-1.31	
For >25,000 To 50,000, Deduct	-1.83	
For >50,000, Deduct	-2.09	

32 01 13 Flexible Paving Surface Treatment (32 01)**32 01 13 61 Slurry Seal (Latex Modified)** (32 01 13)**32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot** (32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002 EA Minimum Charge For Asphalt Seal Coating.....	986.39	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
32 01 13 61-0003 SY Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	3.78	
32 01 13 61-0004 SY >500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	3.48	
32 01 13 61-0005 SY >1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	3.25	
32 01 13 61-0006 SY Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.94	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.48	
For Each 0.5% Of Latex Addition, Add	0.34	
32 01 13 61-0007 SY >500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.71	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.47	
For Each 0.5% Of Latex Addition, Add	0.34	
32 01 13 61-0008 SY >1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.53	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.46	
For Each 0.5% Of Latex Addition, Add	0.34	
32 01 13 61-0009 SY >5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.36	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.45	
For Each 0.5% Of Latex Addition, Add	0.34	
32 01 13 61-0010 SY >20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.36	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.45	
For Each 0.5% Of Latex Addition, Add	0.34	
32 01 13 61-0011 SY >50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.07	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.43	
For Each 0.5% Of Latex Addition, Add	0.34	
32 01 13 61-0012 SY Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	5.31	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.35	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.41	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.51	
For Each 0.5% Of Latex Addition, Add	0.51	
32 01 13 61-0013 SY >500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.95	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.33	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.39	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.49	
For Each 0.5% Of Latex Addition, Add	0.51	
32 01 13 61-0014 SY >1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.67	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.47	
For Each 0.5% Of Latex Addition, Add	0.51	



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Flexible Paving Surface Treatment		32 01 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0015	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.42		
		Note: 1/4" thick, 14 to 18 Lb./SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46		
		For Each 0.5% Of Latex Addition, Add	0.51		
32 01 13 61-0016	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.18		
		Note: 1/4" thick, 14 to 18 Lb./SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45		
		For Each 0.5% Of Latex Addition, Add	0.51		
32 01 13 61-0017	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	3.97		
		Note: 1/4" thick, 14 to 18 Lb./SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44		
		For Each 0.5% Of Latex Addition, Add	0.51		
32 01 13 61-0018	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	6.69		
		Note: 3/8" thick, 25 to 30 Lb./SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.36		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.42		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.52		
		For Each 0.5% Of Latex Addition, Add	0.83		
32 01 13 61-0019	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	6.31		
		Note: 3/8" thick, 25 to 30 Lb./SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.34		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.40		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.50		
		For Each 0.5% Of Latex Addition, Add	0.83		
32 01 13 61-0020	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	6.01		
		Note: 3/8" thick, 25 to 30 Lb./SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.48		
		For Each 0.5% Of Latex Addition, Add	0.83		
32 01 13 61-0021	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.73		
		Note: 3/8" thick, 25 to 30 Lb./SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.47		
		For Each 0.5% Of Latex Addition, Add	0.83		
32 01 13 61-0022	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.48		
		Note: 3/8" thick, 25 to 30 Lb./SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46		
		For Each 0.5% Of Latex Addition, Add	0.83		
32 01 13 61-0023	SY	>50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.25		
		Note: 3/8" thick, 25 to 30 Lb./SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45		
		For Each 0.5% Of Latex Addition, Add	0.83		

32 01 13 62 Asphalt Surface Treatment (32 01 13)

32 01 13 62-0001		Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing) (32 01 13 62)	
		Note: Use a blend of emulsified quickset polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.	
32 01 13 62-0002	SY	Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	12.01
32 01 13 62-0003	SY	Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	11.41
32 01 13 62-0004	SY	>500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	10.89
32 01 13 62-0005	SY	>1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	10.45
32 01 13 62-0006	SY	>5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	10.04
32 01 13 62-0007	SY	>10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.69
32 01 13 62-0008	SY	>20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.43
32 01 13 62-0009	SY	>50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.30

32 01 16 Flexible Paving Rehabilitation (32 01)

See CSI section 33 01 30 86-0000 for raising manhole frame and cover.

32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)

32 01 16 71-0001		Removal Of Asphalt Surface Course (32 01 16 71)	
		Note: Includes direct loading into truck.	
32 01 16 71-0002		Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001)	
		Note: For removal of entire lanes of roads or parking areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 16 Flexible Paving Rehabilitation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt.....	5.03	
For Up To 2,500, Add	3.77	
For >2,500 To 5,000, Add	1.26	
For >10,000 To 25,000, Deduct	-0.88	
For >25,000, Deduct	-1.26	
32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt.....	6.35	
For Up To 2,500, Add	4.76	
For >2,500 To 5,000, Add	1.59	
For >10,000 To 25,000, Deduct	-1.11	
For >25,000, Deduct	-1.59	
32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt.....	8.45	
For Up To 2,500, Add	6.34	
For >2,500 To 5,000, Add	2.11	
For >10,000 To 25,000, Deduct	-1.48	
For >25,000, Deduct	-2.11	
32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.		
32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt.....	33.46	
For >100 To 1,000, Deduct	-16.73	
For >1,000, Deduct	-25.10	
32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt.....	44.31	
For >100 To 1,000, Deduct	-22.16	
For >1,000, Deduct	-33.23	
32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt.....	59.01	
For >100 To 1,000, Deduct	-29.51	
For >1,000, Deduct	-44.26	
32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)		
Note: For use as subbase material, includes spreading and rolling.		
32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth	8.71	
32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)		
32 01 16 73-0001 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) (32 01 16 73)		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0002 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	6.34	
For >12" To 18" Depth, Add	2.25	
32 01 16 73-0003 SF >30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	5.96	
For >12" To 18" Depth, Add	2.14	
32 01 16 73-0004 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	5.10	
For >12" To 18" Depth, Add	1.88	
32 01 16 73-0005 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	4.45	
For >12" To 18" Depth, Add	1.69	
32 01 16 73-0006 SF >130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	4.04	
For >12" To 18" Depth, Add	1.56	
32 01 16 73-0007 SF >250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.78	
For >12" To 18" Depth, Add	1.49	
32 01 16 73-0008 SF >500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.60	
For >12" To 18" Depth, Add	1.43	
32 01 16 73-0009 Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C) (32 01 16 73)		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0010 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	5.76	
For >12" To 18" Depth, Add	1.96	
32 01 16 73-0011 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	4.52	
For >12" To 18" Depth, Add	1.59	
32 01 16 73-0012 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.87	
For >12" To 18" Depth, Add	1.40	
32 01 16 73-0013 SF >130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.46	
For >12" To 18" Depth, Add	1.27	
32 01 16 73-0014 SF >250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.20	
For >12" To 18" Depth, Add	1.20	
32 01 16 73-0015 SF >500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.02	
For >12" To 18" Depth, Add	1.14	
32 01 16 73-0016 Supplemental Aggregate (32 01 16 73)		
32 01 16 73-0017 TON Supplemental Aggregate	86.37	
32 01 16 74 In Place Hot Reused Asphalt Paving (32 01 16)		
32 01 16 74-0001 Reclamation, Pulverize And Blending With Existing (32 01 16 74)		
Note: Includes direct loading into truck.		



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Flexible Paving Rehabilitation		32 01 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 74-0002	SY		Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	18.02	
32 01 16 74-0003	SY		Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.01	
32 01 16 74-0004	SY		Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.51	
32 01 16 74-0005	SY		Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.27	
32 01 16 74-0006	SY		>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.91	
32 01 16 74-0007	SY		>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	19.66	
32 01 16 74-0008	SY		>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.83	
32 01 16 74-0009	SY		>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.63	
32 01 16 74-0010	SY		>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	21.63	
32 01 16 74-0011	SY		>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	10.81	
32 01 16 74-0012	SY		>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.41	
32 01 16 74-0013	SY		>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.99	
32 01 16 74-0014	SY		>4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	23.59	
32 01 16 74-0015	SY		>4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	11.80	
32 01 16 74-0016	SY		>4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.90	
32 01 16 74-0017	SY		>4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.49	
32 01 16 74-0018	EA		Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	2,027.74	
32 01 16 74-0019 Rejuvenate And Respread Asphalt Pavement (32 01 16 74)					
Note: Includes direct loading into truck.					
32 01 16 74-0020	SY		Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep.....	12.27	
32 01 16 74-0021	SY		Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar.....	14.43	
32 01 16 74-0022	TON		Removal, Rejuvenation, And Respreading Of Asphalt Grindings.....	226.40	
32 01 17 Flexible Paving Repair (32 01)					
See CSI section 32 12 16 00-0000 for large area resurfacing.					
32 01 17 61 Sealing Cracks in Asphalt Paving (32 01 17)					
Note: Includes removing loose materials and cleaning.					
32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair (32 01 17 61)					
Note: Includes removing loose materials and cleaning.					
32 01 17 61-0002	LF		Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	2.02	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.					
For 3/4" x 1/2" Fill, Add				0.58	
For 1" x 1/2" Fill, Add				1.09	
For Backer Rod, Add				1.17	
32 01 17 61-0003	LF		>200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.66	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.					
For 3/4" x 1/2" Fill, Add				0.48	
For 1" x 1/2" Fill, Add				0.92	
For Backer Rod, Add				1.06	
32 01 17 61-0004	LF		>500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.32	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.					
For 3/4" x 1/2" Fill, Add				0.39	
For 1" x 1/2" Fill, Add				0.74	
For Backer Rod, Add				0.94	
32 01 17 61-0005	LF		>2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.14	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.					
For 3/4" x 1/2" Fill, Add				0.34	
For 1" x 1/2" Fill, Add				0.65	
For Backer Rod, Add				0.88	
32 01 17 61-0006	LF		>5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.01	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.					
For 3/4" x 1/2" Fill, Add				0.30	
For 1" x 1/2" Fill, Add				0.58	
For Backer Rod, Add				0.82	
32 01 17 61-0007	LF		>10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.93	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.					
For 3/4" x 1/2" Fill, Add				0.28	
For 1" x 1/2" Fill, Add				0.53	
For Backer Rod, Add				0.78	
32 01 17 61-0008	LF		Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	3.49	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.					
For 3/8" x 1/4" Fill, Add				0.82	
For 1/2" x 1/4" Fill, Add				1.52	
For 1/2" x 1/2" Fill, Add				3.63	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 17 Flexible Paving Repair**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0009 LF >200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.82	
For 3/8" x 1/4" Fill, Add	0.68	
For 1/2" x 1/4" Fill, Add	1.25	
For 1/2" x 1/2" Fill, Add	3.03	
32 01 17 61-0010 LF >500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.18	
For 3/8" x 1/4" Fill, Add	0.54	
For 1/2" x 1/4" Fill, Add	1.00	
For 1/2" x 1/2" Fill, Add	2.43	
32 01 17 61-0011 LF >2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.91	
For 3/8" x 1/4" Fill, Add	0.47	
For 1/2" x 1/4" Fill, Add	0.88	
For 1/2" x 1/2" Fill, Add	2.14	
32 01 17 61-0012 LF >5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.72	
For 3/8" x 1/4" Fill, Add	0.42	
For 1/2" x 1/4" Fill, Add	0.78	
For 1/2" x 1/2" Fill, Add	1.91	
32 01 17 61-0013 LF >10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.61	
For 3/8" x 1/4" Fill, Add	0.39	
For 1/2" x 1/4" Fill, Add	0.73	
For 1/2" x 1/2" Fill, Add	1.76	
32 01 17 61-0014 LF For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....	0.62	
32 01 17 61-0015 LNMI Crack Seal/Filler Per Lane (10' to 12' Wide) Per Mile	4,448.92	
Note: This work shall consist of removal of loose matter from cracks with brooms and compressed air and sealing the crack with rubber or other elastomeric modified asphalt, ASTM D 1190, D 3405 or AASHTO M-173. The sealant shall be applied from the bottom of the crack up and the sealant material shall be sprinkled with dry sand to prevent pick-up by traffic.		

32 01 17 63 Flexible Pavement Repair (32 01 17)**32 01 17 63-0001 Temporary Pot Hole Repair (32 01 17 63)**

Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons	1,837.61
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified	553.63
Note: Use for each ton over 3 tons.	
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,763.33
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix	528.87
Note: Use for each ton over 3 tons.	
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,726.19
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified.....	516.49
Note: Use for each ton over 3 tons.	
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,689.05
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix	504.11
Note: Use for each ton over 3 tons.	

32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63)

Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles. Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	2,004.04
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix	650.86
Note: Use for each ton over 3 tons.	
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,966.90
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified	638.48
Note: Use for each ton over 3 tons.	
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,929.76
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix	626.10
Note: Use for each ton over 3 tons.	

32 01 17 63-0017 Asphalt Placement For Small Repairs (32 01 17 63)

Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0057 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.

32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons.....	2,653.57
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified	350.81
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons	2,579.29
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix.....	326.05
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons.....	2,542.15
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	



Exterior Improvements			32
Operation and Maintenance of Exterior Improvements			32 01
Flexible Paving Repair			32 01 17

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	313.67	
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,505.01	
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	301.29	
32 01 17 63-0026 Grind Asphalt (32 01 17 63)		
32 01 17 63-0027 SY Grinding Asphalt To Level Bump Or Raised Area.....	23.97	

32 01 26 Rigid Paving Rehabilitation (32 01)**32 01 26 71 Grooving of Concrete Paving (32 01 26)****32 01 26 71-0001 Roadway Grooving (32 01 26 71)**

32 01 26 71-0002 EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal	4,623.24
32 01 26 71-0003 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	4.28
32 01 26 71-0004 EA First 500 SY Of Pavement Grooving, Concrete, Traverse	5,150.45
32 01 26 71-0005 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse	5.58

32 01 26 71-0006 Rumble Strips (32 01 26 71)

32 01 26 71-0007 EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	5,032.78
32 01 26 71-0008 LF Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	0.92
32 01 26 71-0009 EA First 2,000 LF Of MIARDS, Rumble Strips, Concrete	5,608.57
32 01 26 71-0010 LF Each LF Over First 2,000 LF Of MIARDS, Rumble Strips, Concrete	1.02

32 01 26 73 Milling Of Concrete Paving (32 01 26)**32 01 26 73-0001 Removal Of Concrete (32 01 26 73)**

Note: Includes direct loading into truck.

32 01 26 73-0002 Production Milling Of Roads And Parking Areas (32 01 26 73-0001)

Note: For removal of entire lanes of roads or parking areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.

32 01 26 73-0003 SY Production Milling Of Concrete Per Inch.....	8.01

32 01 26 73-0004 Limited Production Milling (32 01 26 73-0001)

Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.

32 01 26 73-0005 SY Limited Production Milling Of Concrete Per Inch	50.29

32 01 29 Rigid Paving Repair (32 01)**32 01 29 61 Partial Depth Patching of Rigid Paving (32 01 29)****32 01 29 61-0001 Hot Applied Flexible Concrete Repair (32 01 29 61)**

Note: Excludes saw cutting (where required), flagmen.

32 01 29 61-0002 EA Minimum Charge For Hot Applied Flexible Concrete Repair	1,336.87
Note: For projects where the total Hot Applied Flexible Concrete Repair In Asphalt charge is less than the minimum charge, use task "Minimum Charge For Hot Applied Flexible Concrete Repair" exclusively. Task "Minimum Charge For Hot Applied Flexible Concrete Repair" should not be used in conjunction with any other tasks in this section.	
32 01 29 61-0003 SF Up To 2" Depth, Hot Applied Flexible Concrete Repair	73.54
For >25 SF Quantity, Deduct	-7.35
32 01 29 61-0004 SF >2" To 4" Depth, Hot Applied Flexible Concrete Repair.....	138.01
For >25 SF Quantity, Deduct	-13.80
32 01 29 61-0005 SF >4" To 6" Depth, Hot Applied Flexible Concrete Repair.....	201.87
For >25 SF Quantity, Deduct	-20.19
32 01 29 61-0006 SF >6" To 8" Depth, Hot Applied Flexible Concrete Repair.....	265.73
For >25 SF Quantity, Deduct	-26.57
32 01 29 61-0007 SF >8" To 10" Depth, Hot Applied Flexible Concrete Repair.....	329.58
For >25 SF Quantity, Deduct	-32.96
32 01 29 61-0008 CF >10" Depth, Hot Applied Flexible Concrete Repair.....	392.83

32 01 29 61-0009 Cold Applied Flexible Concrete Repair (32 01 29 61)

32 01 29 61-0010 SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	7.29
32 01 29 61-0011 SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	10.46
32 01 29 61-0012 SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	13.75
32 01 29 61-0013 SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	17.16
32 01 29 61-0014 SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	24.47
32 01 29 61-0015 SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	7.38

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 29 Rigid Paving Repair**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 29 61-0016	SF	1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	10.56
32 01 29 61-0017	SF	1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	13.84
32 01 29 61-0018	SF	3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	17.25
32 01 29 61-0019	SF	1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	24.56
32 01 29 61-0020	SF	1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	7.33
32 01 29 61-0021	SF	1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	10.51
32 01 29 61-0022	SF	1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	13.80
32 01 29 61-0023	SF	3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	17.20
32 01 29 61-0024	SF	1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R)	24.51

32 01 90 Operation and Maintenance of Planting (32 01)

Note: These tasks are to be used as requested by the owner to maintain existing conditions.

32 01 90 13 Fertilizing (32 01 90)

32 01 90 13-0001	MSF	Fertilizer - 2 Lb. Of Nitrogen/MSF (Granular)	16.86
32 01 90 13-0002	MSF	Fertilizer - 2 Lb. Of Nitrogen/MSF (Liquid)	12.19
32 01 90 13-0003	MSF	Fertilizer - 0.5 Lb. Of Nitrogen/MSF (Granular)	13.35
32 01 90 13-0004	MSF	Fertilizer - 0.5 Lb. Of Nitrogen/MSF (Liquid)	10.92

32 01 90 19 Mowing (32 01 90)

32 01 90 19-0001	ACR	Vegetation Cutting By Bush Hog	239.64
Note: Includes normal debris removal, cutting, and trimming.			
For <1 Acre, Add			59.91
32 01 90 19-0002	MSF	Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF	8.29
32 01 90 19-0003	MSF	Mowing Vegetation With Riding Mower, >45,000 SF	6.42
32 01 90 19-0004	MSF	Clear Vegetation With Weed Trimmer, Up To 1,000 SF	27.21
For Work On Slopes >2:1, Add			6.80
For Clearing Light Brush, Add			4.08
32 01 90 19-0005	MSF	Clear Vegetation With Weed Trimmer, >1,000 SF	22.86
For Work On Slopes >2:1, Add			5.72
For Clearing Light Brush, Add			3.43
32 01 90 19-0006	MSF	Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	24.43

32 01 90 23 Pruning (32 01 90)**32 01 90 23-0001 Tree Pruning (32 01 90 23)**

Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.

32 01 90 23-0002 Tree Pruning; Crown Cleaning (32 01 90 23-0001)

Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.

32 01 90 23-0003	EA	1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	34.34
32 01 90 23-0004	EA	2" Caliper, Tree Pruning (Crown Cleaning), By Hand	39.24
32 01 90 23-0005	EA	2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	44.15
32 01 90 23-0006	EA	3" Caliper, Tree Pruning (Crown Cleaning), By Hand	49.05
32 01 90 23-0007	EA	4" Caliper, Tree Pruning (Crown Cleaning), By Hand	74.55
32 01 90 23-0008	EA	4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	124.00
32 01 90 23-0009	EA	6" Caliper, Tree Pruning (Crown Cleaning), By Hand	130.46
32 01 90 23-0010	EA	6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	236.17
32 01 90 23-0011	EA	9" Caliper, Tree Pruning (Crown Cleaning), By Hand	208.90
32 01 90 23-0012	EA	9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	377.78
32 01 90 23-0013	EA	12" Caliper, Tree Pruning (Crown Cleaning), By Hand	241.39
32 01 90 23-0014	EA	12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	436.88
32 01 90 23-0015	EA	18" Caliper, Tree Pruning (Crown Cleaning), By Hand	280.60
32 01 90 23-0016	EA	18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	507.73
32 01 90 23-0017	EA	24" Caliper, Tree Pruning (Crown Cleaning), By Hand	341.57
32 01 90 23-0018	EA	24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	614.11
32 01 90 23-0019	EA	30" Caliper, Tree Pruning (Crown Cleaning), By Hand	424.31
32 01 90 23-0020	EA	30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	773.95
32 01 90 23-0021	EA	36" Caliper, Tree Pruning (Crown Cleaning), By Hand	581.16
32 01 90 23-0022	EA	36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	1,048.96
32 01 90 23-0023	EA	48" Caliper, Tree Pruning (Crown Cleaning), By Hand	921.99
32 01 90 23-0024	EA	48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	1,686.91

32 01 90 23-0025 Tree Pruning; Crown Thinning (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA	1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	42.09
32 01 90 23-0027	EA	2" Caliper, Tree Pruning (Crown Thinning), By Hand	48.07
32 01 90 23-0028	EA	2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	54.05
32 01 90 23-0029	EA	3" Caliper, Tree Pruning (Crown Thinning), By Hand	60.14



Exterior Improvements			32
Operation and Maintenance of Exterior Improvements			32 01
Operation and Maintenance of Planting			32 01 90

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0030 EA 4" Caliper, Tree Pruning (Crown Thinning), By Hand	91.33	
32 01 90 23-0031 EA 4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	151.86	
32 01 90 23-0032 EA 6" Caliper, Tree Pruning (Crown Thinning), By Hand	159.81	
32 01 90 23-0033 EA 6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	289.31	
32 01 90 23-0034 EA 9" Caliper, Tree Pruning (Crown Thinning), By Hand	255.94	
32 01 90 23-0035 EA 9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	462.77	
32 01 90 23-0036 EA 12" Caliper, Tree Pruning (Crown Thinning), By Hand	295.67	
32 01 90 23-0037 EA 12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	535.15	
32 01 90 23-0038 EA 18" Caliper, Tree Pruning (Crown Thinning), By Hand	343.74	
32 01 90 23-0039 EA 18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	621.95	
32 01 90 23-0040 EA 24" Caliper, Tree Pruning (Crown Thinning), By Hand	418.40	
32 01 90 23-0041 EA 24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	752.31	
32 01 90 23-0042 EA 30" Caliper, Tree Pruning (Crown Thinning), By Hand	519.73	
32 01 90 23-0043 EA 30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	948.10	
32 01 90 23-0044 EA 36" Caliper, Tree Pruning (Crown Thinning), By Hand	711.91	
32 01 90 23-0045 EA 36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,284.98	
32 01 90 23-0046 EA 48" Caliper, Tree Pruning (Crown Thinning), By Hand	1,129.41	
32 01 90 23-0047 EA 48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	2,066.46	
32 01 90 23-0048 Tree Pruning; Crown Raising (32 01 90 23-0001)		
Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.		
32 01 90 23-0049 EA 1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	46.40	
32 01 90 23-0050 EA 2" Caliper, Tree Pruning (Crown Raising), By Hand	52.97	
32 01 90 23-0051 EA 2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	59.64	
32 01 90 23-0052 EA 3" Caliper, Tree Pruning (Crown Raising), By Hand	66.21	
32 01 90 23-0053 EA 4" Caliper, Tree Pruning (Crown Raising), By Hand	100.65	
32 01 90 23-0054 EA 4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	167.45	
32 01 90 23-0055 EA 6" Caliper, Tree Pruning (Crown Raising), By Hand	176.09	
32 01 90 23-0056 EA 6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	318.83	
32 01 90 23-0057 EA 9" Caliper, Tree Pruning (Crown Raising), By Hand	282.04	
32 01 90 23-0058 EA 9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	510.00	
32 01 90 23-0059 EA 12" Caliper, Tree Pruning (Crown Raising), By Hand	325.88	
32 01 90 23-0060 EA 12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	589.83	
32 01 90 23-0061 EA 18" Caliper, Tree Pruning (Crown Raising), By Hand	378.86	
32 01 90 23-0062 EA 18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	685.47	
32 01 90 23-0063 EA 24" Caliper, Tree Pruning (Crown Raising), By Hand	461.17	
32 01 90 23-0064 EA 24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	829.07	
32 01 90 23-0065 EA 30" Caliper, Tree Pruning (Crown Raising), By Hand	572.80	
32 01 90 23-0066 EA 30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,044.80	
32 01 90 23-0067 EA 36" Caliper, Tree Pruning (Crown Raising), By Hand	784.60	
32 01 90 23-0068 EA 36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,416.05	
32 01 90 23-0069 EA 48" Caliper, Tree Pruning (Crown Raising), By Hand	1,244.68	
32 01 90 23-0070 EA 48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	2,277.36	
32 01 90 23-0071 Tree Pruning; Crown Reduction (32 01 90 23-0001)		
Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.		
32 01 90 23-0072 EA 1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	49.83	
32 01 90 23-0073 EA 2" Caliper, Tree Pruning (Crown Reduction), By Hand	56.89	
32 01 90 23-0074 EA 2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	64.06	
32 01 90 23-0075 EA 3" Caliper, Tree Pruning (Crown Reduction), By Hand	71.12	
32 01 90 23-0076 EA 4" Caliper, Tree Pruning (Crown Reduction), By Hand	108.10	
32 01 90 23-0077 EA 4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	179.85	
32 01 90 23-0078 EA 6" Caliper, Tree Pruning (Crown Reduction), By Hand	189.14	
32 01 90 23-0079 EA 6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	342.45	
32 01 90 23-0080 EA 9" Caliper, Tree Pruning (Crown Reduction), By Hand	302.93	
32 01 90 23-0081 EA 9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	547.79	
32 01 90 23-0082 EA 12" Caliper, Tree Pruning (Crown Reduction), By Hand	350.02	
32 01 90 23-0083 EA 12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	633.52	
32 01 90 23-0084 EA 18" Caliper, Tree Pruning (Crown Reduction), By Hand	406.91	
32 01 90 23-0085 EA 18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	736.25	
32 01 90 23-0086 EA 24" Caliper, Tree Pruning (Crown Reduction), By Hand	495.30	
32 01 90 23-0087 EA 24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	890.47	
32 01 90 23-0088 EA 30" Caliper, Tree Pruning (Crown Reduction), By Hand	615.28	
32 01 90 23-0089 EA 30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,122.27	
32 01 90 23-0090 EA 36" Caliper, Tree Pruning (Crown Reduction), By Hand	842.67	
32 01 90 23-0091 EA 36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,521.04	
32 01 90 23-0092 EA 48" Caliper, Tree Pruning (Crown Reduction), By Hand	1,336.90	
32 01 90 23-0093 EA 48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	2,445.98	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 23-0094**Tree Pruning; Crown Restoration** (32 01 90 23-0001)

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	57.19
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	65.43
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	73.57
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand.....	81.72
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand.....	124.20
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	206.65
32 01 90 23-0101	EA	6" Caliper, Tree Pruning (Crown Restoration), By Hand.....	217.39
32 01 90 23-0102	EA	6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	393.57
32 01 90 23-0103	EA	9" Caliper, Tree Pruning (Crown Restoration), By Hand.....	348.15
32 01 90 23-0104	EA	9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	629.63
32 01 90 23-0105	EA	12" Caliper, Tree Pruning (Crown Restoration), By Hand.....	402.31
32 01 90 23-0106	EA	12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	728.11
32 01 90 23-0107	EA	18" Caliper, Tree Pruning (Crown Restoration), By Hand.....	467.64
32 01 90 23-0108	EA	18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	846.18
32 01 90 23-0109	EA	24" Caliper, Tree Pruning (Crown Restoration), By Hand.....	569.27
32 01 90 23-0110	EA	24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,023.54
32 01 90 23-0111	EA	30" Caliper, Tree Pruning (Crown Restoration), By Hand.....	707.20
32 01 90 23-0112	EA	30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,289.94
32 01 90 23-0113	EA	36" Caliper, Tree Pruning (Crown Restoration), By Hand.....	968.63
32 01 90 23-0114	EA	36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,748.35
32 01 90 23-0115	EA	48" Caliper, Tree Pruning (Crown Restoration), By Hand.....	1,536.63
32 01 90 23-0116	EA	48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	2,811.57

32 01 90 23-0117**Palm Tree Pruning** (32 01 90 23)

32 01 90 23-0118	EA	Trim Mexican Palm Tree.....	104.01
32 01 90 23-0119	EA	Trim Date Palm Tree.....	234.69
32 01 90 23-0120	LF	Skin Palm Tree.....	26.67
32 01 90 23-0121	EA	Trim And Skin Palm Tree, Up To 30' Height.....	100.37
32 01 90 23-0122	EA	Trim And Skin Palm Tree, >30' To 60' Height.....	123.99
32 01 90 23-0123	EA	Trim And Skin Palm Tree, >60' To 80' Height.....	138.75

32 01 90 23-0124**Shrub Pruning** (32 01 90 23)

32 01 90 23-0125	MSF	Shrub Pruning, Prune, Shrub Bed.....	111.78
32 01 90 23-0126	EA	Shrub Pruning, Prune, Shrub Under 3' Height.....	3.92
32 01 90 23-0127	EA	Shrub Pruning, Prune, Shrub 4' Height.....	8.83
32 01 90 23-0128	EA	Shrub Pruning, Prune, Shrub Over 6'.....	15.69
32 01 90 23-0129	EA	Shrub Pruning, Prune Trees From Ground.....	39.24
32 01 90 23-0130	EA	Shrub Pruning, Prune Trees From Ground, High Work.....	98.10

32 01 90 23-0131**Root Pruning** (32 01 90 23)

Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.

32 01 90 23-0132	EA	Root Pruning, One Side Of Up To 1-1/2" Caliper Tree.....	19.62
32 01 90 23-0133	EA	Root Pruning, One Side Of 2" Caliper Tree.....	24.53
32 01 90 23-0134	EA	Root Pruning, One Side Of 2-1/2" Caliper Tree.....	29.43
32 01 90 23-0135	EA	Root Pruning, One Side Of 3" Caliper Tree.....	39.24
32 01 90 23-0136	EA	Root Pruning, One Side Of 4" Caliper Tree.....	58.85
32 01 90 23-0137	EA	Root Pruning, One Side Of >4" To 6" Caliper Tree.....	73.57
32 01 90 23-0138	EA	Root Pruning, One Side Of >6" To 9" Caliper Tree.....	103.00
32 01 90 23-0139	EA	Root Pruning, One Side Of >9" To 12" Caliper Tree.....	117.72
32 01 90 23-0140	EA	Root Pruning, One Side Of >12" To 18" Caliper Tree.....	137.34
32 01 90 23-0141	EA	Root Pruning, One Side Of >18" To 24" Caliper Tree.....	171.67
32 01 90 23-0142	EA	Root Pruning, One Side Of >24" To 30" Caliper Tree.....	210.91
32 01 90 23-0143	EA	Root Pruning, One Side Of >30" To 36" Caliper Tree.....	245.25
32 01 90 23-0144	EA	Root Pruning, One Side Of >36" To 42" Caliper Tree.....	269.78
32 01 90 23-0145	EA	Root Pruning, One Side Of >42" To 48" Caliper Tree.....	294.29

32 01 90 26**Watering** (32 01 90)

Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.

32 01 90 26-0001**Watering Lawns, Plants And Trees** (32 01 90 26)

Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for additional watering beyond initial watering at installation for extended watering period of lawns, plants and trees.

32 01 90 26-0002	MSF	Watering Sod/Grass, Per Inch Of Water.....	54.05
32 01 90 26-0003	CSF	Watering Groundcover.....	8.38
32 01 90 26-0004	CSF	Watering Annuals And Perennials.....	14.87
32 01 90 26-0005	EA	Watering Trees, 1-1/2" To 5" Diameter By Hand.....	28.79
32 01 90 26-0006	EA	Watering Trees, 6" To 12" Diameter By Hand.....	37.83



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Operation and Maintenance of Planting		32 01 90

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 01 90 26-0007	EA		Watering Trees, 13" To 18" Diameter By Hand	46.89	
32 01 90 26-0008	EA		Watering Trees, >18" Diameter By Hand	57.72	
32 01 90 26-0009	EA		Watering Shrub Or Bush By Hand	14.47	

32 01 90 36 Weed and Brush Control (32 01 90)**32 01 90 36-0001 Herbicide, Push Or Hand Spreader Applied** (32 01 90 36)

32 01 90 36-0002	MSF		Non-Selective Post Emergent Weed Herbicide (70.4 Oz./Acre or 1.62 Oz./MSF)	9.16	
			For >45 To 90, Deduct	-0.50	
			For >90 To 225, Deduct	-1.42	
			For >225 To 870, Deduct	-2.33	
			For >870, Deduct	-2.83	
32 01 90 36-0003	MSF		Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 Oz./Acre or 2.94 Oz./MSF)	9.86	
			For >45 To 90, Deduct	-0.57	
			For >90 To 225, Deduct	-1.56	
			For >225 To 870, Deduct	-2.54	
			For >870, Deduct	-3.11	
32 01 90 36-0004	MSF		Selective Weed Herbicide (56 Oz./Acre or 1.28 Oz./MSF)	9.81	
			Note: Includes pre and post emergent.		
			For >45 To 90, Deduct	-0.57	
			For >90 To 225, Deduct	-1.55	
			For >225 To 870, Deduct	-2.53	
			For >870, Deduct	-3.09	
32 01 90 36-0005	MSF		Selective Woody Brush And Tree Herbicide (72 Oz./Acre or 1.65 Oz./MSF)	10.25	
			Note: Includes pre and post emergent.		
			For >45 To 90, Deduct	-0.61	
			For >90 To 225, Deduct	-1.64	
			For >225 To 870, Deduct	-2.66	
			For >870, Deduct	-3.27	

32 01 90 39 Pesticides (32 01 90)

32 01 90 39-0001	MSF		Pesticide - Surface Eating	12.73	
32 01 90 39-0002	MSF		Pesticide - Subsurface Eating	12.77	
32 01 90 39-0003	MSF		Pesticide - Fungicide Application	13.87	

32 01 90 43 Weed and Cultivate Beds (32 01 90)

32 01 90 43-0001	MSF		Weed Mulched Bed	48.03	
32 01 90 43-0002	MSF		Weed Unmulched Bed	137.21	
32 01 90 43-0003	MSF		Cultivate Bed	73.88	

32 01 90 46 Hedge Trimming (32 01 90)

32 01 90 46-0001	LF		Trim 0-5' High Hedge, 0-3' Wide	6.42	
32 01 90 46-0002	LF		Trim 0-5' High Hedge, 4-6' Wide	9.63	
32 01 90 46-0003	LF		Trim 5-10' High Hedge, 0-3' Wide	14.58	
32 01 90 46-0004	LF		Trim 5-10' High Hedge, 4-6' Wide	14.85	

32 01 90 53 Plant Growth Regulator Application (32 01 90)

32 01 90 53-0001	EA		Plant Growth Regulator Application	7.24	

32 05 Common Work Results for Exterior Improvements (32)**32 05 33 Common Work Results for Planting** (32 05)**32 05 33 00-0001 Decorative Landscape Boulders** (32 05 33)

Note: Includes delivery of materials and placement.

32 05 33 00-0002	EA		1'-6" x 2' x 1' Oval Shape Boulders (Approx. 250 Lb. Each)	90.33	
32 05 33 00-0003	EA		1'-6" x 2' x 1'-6" Oval Shape Boulders (Approx. 375 Lb. Each)	135.50	
32 05 33 00-0004	EA		2' x 2' x 1'-6" Oval Shape Boulders (Approx. 500 Lb. Each)	180.67	
32 05 33 00-0005	EA		2' x 2' x 2' Oval Shape Boulders (Approx. 667 Lb. Each)	241.03	
32 05 33 00-0006	EA		2' x 3' x 1'-6" Oval Shape Boulders (Approx. 750 Lb. Each)	271.29	
32 05 33 00-0007	EA		2' x 3' x 2' Oval Shape Boulders (Approx. 1,000 Lb. Each)	361.73	
32 05 33 00-0008	EA		2'-6" x 3' x 2' Oval Shape Boulders (Approx. 1,250 Lb. Each)	452.15	
32 05 33 00-0009	EA		3' x 3' x 2' Oval Shape Boulders (Approx. 1,500 Lb. Each)	542.59	
32 05 33 00-0010	EA		3' x 3'-6" x 2' Oval Shape Boulders (Approx. 1,750 Lb. Each)	633.02	
32 05 33 00-0011	EA		3' x 4' x 2' Oval Shape Boulders (Approx. 2,000 Lb. Each)	723.45	
32 05 33 00-0012	EA		3' x 3' x 3' Oval Shape Boulders (Approx. 2,250 Lb. Each)	813.88	
32 05 33 00-0013	EA		3' x 4' x 2'-6" Oval Shape Boulders (Approx. 2,500 Lb. Each)	904.32	
32 05 33 00-0014	EA		3' x 4' x 3' Oval Shape Boulders (Approx. 3,000 Lb. Each)	1,085.17	
32 05 33 00-0015	TON		Landscape Boulders	723.45	

32 10 Bases, Ballasts, and Paving (32)**32 11 Base Courses** (32 10)

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 11 Base Courses**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 11 16 Subbase Courses (32 11)**32 11 16 16 Aggregate Subbase Courses** (32 11 16)

32 11 16 16-0001	Base And Subbase Courses For Roadways And Parking Areas	(32 11 16 16)	
Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.			
32 11 16 16-0002	Base And Subbase Courses By The CY	(32 11 16 16-0001)	
32 11 16 16-0003	CY Class II Graded Crushed Aggregate Roadway Base Course		113.30
32 11 16 16-0004	CY Class III Graded Crushed Aggregate Roadway Base Course		108.99
32 11 16 16-0005	CY Recycled Base Course		107.85
32 11 16 16-0006	Class II Base Courses By The SY	(32 11 16 16-0001)	
32 11 16 16-0007	SY 2" Class II Graded Crushed Aggregate Base Course		6.27
	For Up To 500, Add		1.62
	For >500 To 1,000, Add		0.63
	For >5,000 To 10,000, Deduct		-0.24
	For >10,000, Deduct		-0.41
32 11 16 16-0008	SY 4" Class II Crushed Aggregate Base Course		12.54
	For Up To 500, Add		3.24
	For >500 To 1,000, Add		1.25
	For >5,000 To 10,000, Deduct		-0.48
	For >10,000, Deduct		-0.82
32 11 16 16-0009	SY 6" Class II Crushed Aggregate Base Course		18.81
	For Up To 500, Add		4.85
	For >500 To 1,000, Add		1.88
	For >5,000 To 10,000, Deduct		-0.71
	For >10,000, Deduct		-1.22
32 11 16 16-0010	SY 9" Class II Crushed Aggregate Base Course		28.21
	For Up To 500, Add		7.28
	For >500 To 1,000, Add		2.82
	For >5,000 To 10,000, Deduct		-1.07
	For >10,000, Deduct		-1.83
32 11 16 16-0011	SY 12" Class II Crushed Aggregate Base Course		37.62
	For Up To 500, Add		9.71
	For >500 To 1,000, Add		3.76
	For >5,000 To 10,000, Deduct		-1.43
	For >10,000, Deduct		-2.45

32 11 23 Aggregate Base Courses (32 11)**32 11 23 16 Aggregate Base Courses** (32 11 23)

32 11 23 16-0001	Base Courses For Sidewalk (Asphalt Or Concrete)	(32 11 23 16)	
Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.			
32 11 23 16-0002	SF 2" Crushed Aggregate Base Course For Sidewalks		0.78
	For Up To 1,000, Add		0.22
	For >1,000 To 2,500, Add		0.08
32 11 23 16-0003	SF 3" Crushed Aggregate Base Course For Sidewalks		1.09
	For Up To 1,000, Add		0.30
	For >1,000 To 2,500, Add		0.11
32 11 23 16-0004	SF 4" Crushed Aggregate Base Course For Sidewalks		1.40
	For Up To 1,000, Add		0.39
	For >1,000 To 2,500, Add		0.14
32 11 23 16-0005	SF 5" Crushed Aggregate Base Course For Sidewalks		1.84
	For Up To 1,000, Add		0.51
	For >1,000 To 2,500, Add		0.18
32 11 23 16-0006	SF 6" Crushed Aggregate Base Course For Sidewalks		2.26
	For Up To 1,000, Add		0.63
	For >1,000 To 2,500, Add		0.23
32 11 23 16-0007	SF 7" Crushed Aggregate Base Course For Sidewalks		2.60
	For Up To 1,000, Add		0.72
	For >1,000 To 2,500, Add		0.26
32 11 23 16-0008	SF 8" Crushed Aggregate Base Course For Sidewalks		2.94
	For Up To 1,000, Add		0.82
	For >1,000 To 2,500, Add		0.29

32 11 26 Asphaltic Base Courses (32 11)**32 11 26 19 Bituminous-Stabilized Base Courses** (32 11 26)

32 11 26 19-0001	Bituminous-Stabilized Base Courses	(32 11 26 19)	
32 11 26 19-0002	CY Bituminous Stabilized Base Course		110.75
Note: 3/4" ASTM C33.			

32 12 Flexible Paving (32 10)**32 12 13 Preparatory Coats** (32 12)



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Flexible Paving		32 12

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 13 13 Tack Coats (32 12 13)		
32 12 13 13-0001 TON Tack Coat (Monterey County).....	2,226.18	
32 12 13 19 Prime Coats (32 12 13)		
32 12 13 19-0001 SY Surface Prime Coat, 0.26 Gallon/SY	2.62	
For Up To 150, Add	0.61	
For >150 To 300, Add	0.26	
For >300 To 500, Add	0.13	
For >3,500 To 5,000, Deduct	-0.07	
For >5,000, Deduct	-0.18	
32 12 13 19-0002 SY Surface Prime Coat, 0.28 Gallon/SY	2.78	
For Up To 150, Add	0.65	
For >150 To 300, Add	0.28	
For >300 To 500, Add	0.14	
For >3,500 To 5,000, Deduct	-0.07	
For >5,000, Deduct	-0.20	
32 12 13 19-0003 SY Surface Prime Coat, 0.30 Gallon/SY	2.95	
For Up To 150, Add	0.69	
For >150 To 300, Add	0.30	
For >300 To 500, Add	0.15	
For >3,500 To 5,000, Deduct	-0.07	
For >5,000, Deduct	-0.21	
32 12 16 Asphalt Paving (32 12)		
32 12 16 13 Plant-Mix Asphalt Paving (32 12 16)		
Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0043 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.		
32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)		
Note: S (3/4") aggregate gradation		
32 12 16 13-0002 TON Bituminous Hot Mix Intermediate Binder Course 3,954 Lb./CY	150.27	
Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
For PG64-10 Asphalt, Add	17.06	
For Up To 25, Add	21.60	
For >25 To 50, Add	12.08	
For >500 To 1,000, Deduct	-6.21	
For >1,000 To 2,500, Deduct	-11.28	
For >2,500 To 5,000, Deduct	-17.49	
For >5,000, Deduct	-25.10	
32 12 16 13-0003 SY 1" Thick Bituminous Hot Mix Intermediate Binder Course	8.56	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.94	
For Up To 1,000, Add	1.27	
For >1,000 To 2,000, Add	0.72	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000 To 50,000, Deduct	-0.65	
For >50,000 To 100,000, Deduct	-1.01	
For >100,000, Deduct	-1.46	
32 12 16 13-0004 SY 1-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	12.68	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	1.41	
For Up To 700, Add	1.86	
For >700 To 1,400, Add	1.05	
For >7,000 To 14,000, Deduct	-0.53	
For >14,000 To 32,000, Deduct	-0.98	
For >32,000 To 64,000, Deduct	-1.51	
For >64,000, Deduct	-2.17	
32 12 16 13-0005 SY 2" Thick Bituminous Hot Mix Intermediate Binder Course	16.31	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	1.87	
For Up To 500, Add	2.32	
For >500 To 1,000, Add	1.29	
For >5,000 To 10,000, Deduct	-0.70	
For >10,000 To 24,000, Deduct	-1.28	
For >24,000 To 48,000, Deduct	-1.98	
For >48,000, Deduct	-2.84	
32 12 16 13-0006 SY 2-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	20.62	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	2.34	
For Up To 400, Add	2.96	
For >400 To 800, Add	1.66	
For >4,000 To 8,000, Deduct	-0.88	
For >8,000 To 20,000, Deduct	-1.61	
For >20,000 To 40,000, Deduct	-2.49	
For >40,000, Deduct	-3.57	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0007	SY		3" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	24.76	
			For PG64-10 Asphalt, Add	2.81	
			For Up To 340, Add	3.56	
			For >340 To 680, Add	2.93	
			For >3,400 To 6,800, Deduct	-1.06	
			For >6,800 To 17,000, Deduct	-1.93	
			For >17,000 To 34,000, Deduct	-2.98	
			For >34,000, Deduct	-4.29	
32 12 16 13-0008	SY		3-1/2" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	28.87	
			For PG64-10 Asphalt, Add	3.28	
			For Up To 280, Add	4.15	
			For >280 To 560, Add	2.32	
			For >2,800 To 5,600, Deduct	-1.23	
			For >5,600 To 14,000, Deduct	-2.25	
			For >14,000 To 28,000, Deduct	-3.48	
			For >28,000, Deduct	-5.00	
32 12 16 13-0009	SY		4" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	33.00	
			For PG64-10 Asphalt, Add	3.75	
			For Up To 250, Add	4.74	
			For >250 To 500, Add	2.65	
			For >2,500 To 5,000, Deduct	-1.41	
			For >5,000 To 12,000, Deduct	-2.57	
			For >12,000 To 24,000, Deduct	-3.98	
			For >24,000, Deduct	-5.72	
32 12 16 13-0010	SY		5" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	41.26	
			For PG64-10 Asphalt, Add	4.68	
			For Up To 200, Add	5.93	
			For >200 To 400, Add	3.32	
			For >2,000 To 4,000, Deduct	-1.76	
			For >4,000 To 10,000, Deduct	-3.21	
			For >10,000 To 20,000, Deduct	-4.97	
			For >20,000, Deduct	-7.15	
32 12 16 13-0011	SY		6" Thick Bituminous Hot Mix Intermediate Binder Course Note: Includes placement, rolling, finishing and sweeping.	49.50	
			For PG64-10 Asphalt, Add	5.62	
			For Up To 160, Add	7.12	
			For >160 To 320, Add	3.98	
			For >1,600 To 3,200, Deduct	-2.11	
			For >3,200 To 8,000, Deduct	-3.85	
			For >8,000 To 16,000, Deduct	-5.97	
			For >16,000, Deduct	-8.58	
32 12 16 13-0012			Surface Wearing Courses, Hot Mix Asphalt (HMA) (32 12 16 13) Note: SX (1/2") aggregate gradation		
32 12 16 13-0013	TON		Bituminous Hot Mix Surface Wearing Course 3,774 Lb./CY Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.	154.19	
			For PG64-10 Asphalt, Add	8.14	
			For Up To 25, Add	23.63	
			For >25 To 50, Add	13.41	
			For >500 To 1,000, Deduct	-6.08	
			For >1,000 To 2,500, Deduct	-11.08	
			For >2,500 To 5,000, Deduct	-17.16	
			For >5,000, Deduct	-24.65	
32 12 16 13-0014	TON		Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR) Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.	171.57	
			For Up To 25, Add	26.74	
			For >25 To 50, Add	15.23	
			For >500 To 1,000, Deduct	-6.68	
			For >1,000 To 2,500, Deduct	-12.17	
			For >2,500 To 5,000, Deduct	-18.85	
			For >5,000, Deduct	-27.09	
			For Warm Mix Additive, Add	7.69	
32 12 16 13-0015	TON		Asphalt Rubberized Hot Mix (ARHM) Surface Course Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.	182.42	
			For Up To 25, Add	27.83	
			For >25 To 50, Add	15.78	
			For >500 To 1,000, Deduct	-7.22	
			For >1,000 To 2,500, Deduct	-13.15	
			For >2,500 To 5,000, Deduct	-20.37	
			For >5,000, Deduct	-29.26	
			For Warm Mix Additive, Add	8.40	
32 12 16 13-0016	SY		1" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	8.44	
			For PG64-10 Asphalt, Add	0.43	
			For Up To 1,000, Add	1.34	
			For >1,000 To 2,000, Add	0.77	
			For >10,000 To 20,000, Deduct	-0.34	
			For >20,000 To 50,000, Deduct	-0.62	
			For >50,000 To 100,000, Deduct	-0.96	
			For >100,000, Deduct	-1.39	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Flexible Paving		32 12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0017 SY 1-1/2" Thick Bituminous Hot Mix Surface Wearing Course..... Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add For Up To 700, Add For >700 To 1,400, Add For >7,000 To 14,000, Deduct For >14,000 To 32,000, Deduct For >32,000 To 64,000, Deduct For >64,000, Deduct	12.48 0.64 1.96 1.12 -0.51 -0.93 -1.43 -2.06	
32 12 16 13-0018 SY 2" Thick Bituminous Hot Mix Surface Wearing Course..... Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add For Up To 500, Add For >500 To 1,000, Add For >5,000 To 10,000, Deduct For >10,000 To 24,000, Deduct For >24,000 To 48,000, Deduct For >48,000, Deduct	15.93 0.85 2.41 1.37 -0.66 -1.21 -1.87 -2.69	
32 12 16 13-0019 SY 2-1/2" Thick Bituminous Hot Mix Surface Wearing Course..... Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add For Up To 400, Add For >400 To 800, Add For >4,000 To 8,000, Deduct For >8,000 To 20,000, Deduct For >20,000 To 40,000, Deduct For >40,000, Deduct	20.20 1.07 3.10 1.76 -0.83 -1.52 -2.35 -3.38	
32 12 16 13-0020 SY 3" Thick Bituminous Hot Mix Surface Wearing Course..... Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add For Up To 340, Add For >340 To 680, Add For >3,400 To 6,800, Deduct For >6,800 To 17,000, Deduct For >17,000 To 34,000, Deduct For >34,000, Deduct	24.25 1.28 3.72 2.96 -1.00 -1.82 -2.82 -4.06	
32 12 16 13-0021 CSF Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	102.34	
32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)		
32 12 16 13-0023 TON Hand Placed Hot Mixed Asphalt 3,954 Lb./CY Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.	409.20	
32 12 16 19 Cold-Mix Asphalt Paving (32 12 16) Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement (32 12 16 19) Note: 0.5 Gal asphalt/SY per inch depth; well-graded granular aggregate.		
32 12 16 19-0002 SY Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	13.60	
32 12 16 19-0003 SY Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course	13.17	
32 12 16 19-0004 SY Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	20.40	
32 12 16 39 Paving Fabrics (32 12 16) See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001 Geotextile Paving Fabrics (32 12 16 39)		
32 12 16 39-0002 SY 3.6 Ounce/SY, 90 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O)..... For Up To 50, Add For >50 To 150, Add For >150 To 250, Add For >250 To 500, Add	1.96 0.44 0.32 0.21 0.11	
32 12 16 39-0003 SY 4.1 Ounce/SY, 101 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42A/O)..... For Up To 50, Add For >50 To 150, Add For >150 To 250, Add For >250 To 500, Add	2.11 0.47 0.35 0.23 0.11	
32 12 16 43 Waterproofing Membranes (32 12 16)		
32 12 16 43-0001 Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002 SY Up To 500 SY, Preformed Rubberized Asphalt Membrane	39.45	
32 12 16 43-0003 SY >500 To 1,000 SY, Preformed Rubberized Asphalt Membrane.....	29.21	
32 12 16 43-0004 SY >1,000 SY, Preformed Rubberized Asphalt Membrane.....	17.56	
32 12 33 Flexible Paving Surface Treatments (32 12)		
32 12 33 00-0001 Bituminous Surface Treatment For Roadways (32 12 33) Note: 0.25 Gallon bitumen per SY and 30 Lb. of gravel/SY.		
32 12 33 00-0002 SY Single Course Bituminous Treatment, Prepare And Clean Surface Roadway.....	3.36	
32 12 33 00-0003 SY Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	6.09	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 12 33 00-0004	Bituminous Surface Treatment For Trails ^(32 12 33)	
	Note: 0.25 Gallon bitumen per SY and 20 Lb. of gravel/SY.	
32 12 33 00-0005	SY Bituminous Surface Treatment, For Trails	2.17
32 12 36	Seal Coats ^(32 12)	
	See CSI section 32 01 13 62-0000 for slurry seal.	
32 12 36 13	Asphaltic Seal and Fog Coats ^(32 12 36)	
32 12 36 13-0001	Asphalt Emulsion, Fog Seal (Monterey County) ^(32 12 36 13)	
32 12 36 13-0002	TON Asphaltic Emulsion, Fog Seal (Monterey County)	2,042.62
32 12 36 13-0003	Asphalt Emulsion Seal Coat (Chip Seal) ^(32 12 36 13)	
	Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.	
32 12 36 13-0004	Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) ^(32 12 36 13-0003)	
	Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.	
32 12 36 13-0005	SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.67
	For Each Additional 0.5% Latex Additive, Add	0.65
32 12 36 13-0006	SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.12
	For Each Additional 0.5% Latex Additive, Add	0.65
32 12 36 13-0007	SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.87
	For Each Additional 0.5% Latex Additive, Add	0.65
32 12 36 13-0008	SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.60
	For Each Additional 0.5% Latex Additive, Add	0.65
32 12 36 13-0009	SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.44
	For Each Additional 0.5% Latex Additive, Add	0.65
32 12 36 13-0010	SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.32
	For Each Additional 0.5% Latex Additive, Add	0.65
32 12 36 13-0011	SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.18
	For Each Additional 0.5% Latex Additive, Add	0.65
32 12 36 13-0012	SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.09
	For Each Additional 0.5% Latex Additive, Add	0.65
32 12 36 13-0013	Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) ^(32 12 36 13-0003)	
	Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.	
32 12 36 13-0014	SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.62
	For Each Additional 0.5% Latex Additive, Add	0.80
32 12 36 13-0015	SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.00
	For Each Additional 0.5% Latex Additive, Add	0.80
32 12 36 13-0016	SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.69
	For Each Additional 0.5% Latex Additive, Add	0.80
32 12 36 13-0017	SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.52
	For Each Additional 0.5% Latex Additive, Add	0.80
32 12 36 13-0018	SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.17
	For Each Additional 0.5% Latex Additive, Add	0.80
32 12 36 13-0019	SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.95
	For Each Additional 0.5% Latex Additive, Add	0.80
32 12 36 13-0020	SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.77
	For Each Additional 0.5% Latex Additive, Add	0.80
32 12 36 13-0021	SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.68
	For Each Additional 0.5% Latex Additive, Add	0.80
32 12 36 13-0022	Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) ^(32 12 36 13-0003)	
	Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.	
32 12 36 13-0023	SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.49
	For Each Additional 0.5% Latex Additive, Add	0.96
32 12 36 13-0024	SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.78
	For Each Additional 0.5% Latex Additive, Add	0.96
32 12 36 13-0025	SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.42
	For Each Additional 0.5% Latex Additive, Add	0.96
32 12 36 13-0026	SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.02
	For Each Additional 0.5% Latex Additive, Add	0.96
32 12 36 13-0027	SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.80
	For Each Additional 0.5% Latex Additive, Add	0.96
32 12 36 13-0028	SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.50
	For Each Additional 0.5% Latex Additive, Add	0.96
32 12 36 13-0029	SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.28
	For Each Additional 0.5% Latex Additive, Add	0.96
32 12 36 13-0030	SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.17
	For Each Additional 0.5% Latex Additive, Add	0.96



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Flexible Paving			32 12

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0031	Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0003) Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0032	SY Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.56	
	For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0033	SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.85	
	For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0034	SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.50	
	For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0035	SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.10	
	For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0036	SY >5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.88	
	For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0037	SY >10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.68	
	For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0038	SY >20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.37	
	For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0039	SY >50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.26	
	For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0040	Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0003) Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0041	SY Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	11.39	
	For Each Additional 0.5% Latex Additive, Add	1.59	
32 12 36 13-0042	SY >200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	10.46	
	For Each Additional 0.5% Latex Additive, Add	1.59	
32 12 36 13-0043	SY >500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	9.94	
	For Each Additional 0.5% Latex Additive, Add	1.59	
32 12 36 13-0044	SY >1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	9.33	
	For Each Additional 0.5% Latex Additive, Add	1.59	
32 12 36 13-0045	SY >5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	9.01	
	For Each Additional 0.5% Latex Additive, Add	1.59	
32 12 36 13-0046	SY >10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.62	
	For Each Additional 0.5% Latex Additive, Add	1.59	
32 12 36 13-0047	SY >20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.30	
	For Each Additional 0.5% Latex Additive, Add	1.59	
32 12 36 13-0048	SY >50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.15	
	For Each Additional 0.5% Latex Additive, Add	1.59	
32 12 36 13-0049	Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13) Note: Includes initial sweeping prior to placement, cleaning of area, towed broom sled of scrub brush and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0050	Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0049) Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0051	SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.17	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0052	SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.84	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0053	SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.61	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0054	SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.36	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0055	SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.24	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0056	SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.12	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0057	SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.00	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0058	SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.95	
	For Each Additional 0.5% Latex Additive, Add	0.65	
32 12 36 13-0059	Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0049) Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0060	SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.15	
	For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0061	SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.76	
	For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0062	SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.50	
	For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0063	SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.33	
	For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0064	SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.97	
	For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0065	SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.76	
	For Each Additional 0.5% Latex Additive, Add	0.80	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0066	SY	>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.60	
		For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0067	SY	>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.55	
		For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0068 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0049)				
Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.				
32 12 36 13-0069	SY	Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	7.07	
		For Each Additional 0.5% Latex Additive, Add	0.96	
32 12 36 13-0070	SY	>200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.57	
		For Each Additional 0.5% Latex Additive, Add	0.96	
32 12 36 13-0071	SY	>500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.22	
		For Each Additional 0.5% Latex Additive, Add	0.96	
32 12 36 13-0072	SY	>1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.84	
		For Each Additional 0.5% Latex Additive, Add	0.96	
32 12 36 13-0073	SY	>5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.61	
		For Each Additional 0.5% Latex Additive, Add	0.96	
32 12 36 13-0074	SY	>10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.31	
		For Each Additional 0.5% Latex Additive, Add	0.96	
32 12 36 13-0075	SY	>20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.11	
		For Each Additional 0.5% Latex Additive, Add	0.96	
32 12 36 13-0076	SY	>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.04	
		For Each Additional 0.5% Latex Additive, Add	0.96	
32 12 36 13-0077 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0049)				
Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.				
32 12 36 13-0078	SY	Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	7.15	
		For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0079	SY	>200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.67	
		For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0080	SY	>500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.30	
		For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0081	SY	>1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.89	
		For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0082	SY	>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.68	
		For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0083	SY	>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.50	
		For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0084	SY	>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.21	
		For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0085	SY	>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.13	
		For Each Additional 0.5% Latex Additive, Add	1.10	
32 12 36 13-0086 Sand Sealer (32 12 36 13)				
Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.				
32 12 36 13-0087	SY	Up To 200 SY, Sand Seal.....	3.27	
32 12 36 13-0088	SY	>200 To 500 SY, Sand Seal.....	2.16	
32 12 36 13-0089	SY	>500 To 1,000 SY, Sand Seal.....	2.16	
32 12 36 13-0090	SY	>1,000 To 5,000 SY, Sand Seal.....	1.90	
32 12 36 13-0091	SY	>5,000 To 10,000 SY, Sand Seal.....	1.76	
32 12 36 13-0092	SY	>10,000 To 20,000 SY, Sand Seal.....	1.65	
32 12 36 13-0093	SY	>20,000 To 50,000 SY, Sand Seal.....	1.56	
32 12 36 13-0094	SY	>50,000 SY, Sand Seal.....	1.53	
32 12 36 16 Coal Tar Seal Coats (32 12 36)				
32 12 36 16-0001 Thermoplastic Coal-Tar Asphalt Seal (32 12 36 16)				
Note: Includes sweeping and cleaning of area.				
32 12 36 16-0002	SY	Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	18.05	
32 12 36 16-0003	SY	>500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	17.00	
32 12 36 16-0004	SY	>1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	15.00	
32 12 36 16-0005	SY	>5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	13.47	
32 12 36 16-0006	SY	>20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	11.46	
32 12 36 16-0007	SY	>50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	9.45	
32 12 36 16-0008	SY	Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	21.98	
32 12 36 16-0009	SY	>500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	20.80	
32 12 36 16-0010	SY	>1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	18.39	
32 12 36 16-0011	SY	>5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	16.60	
32 12 36 16-0012	SY	>20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	14.18	
32 12 36 16-0013	SY	>50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	11.76	
32 12 43 Porous Flexible Paving (32 12)				
32 12 43 00-0001 Flexible Recycled Plastic Porous Grid (32 12 43)				
Note: Includes sand fill in rings. Excludes base, earthwork and grass or sod.				



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Flexible Paving			32 12

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
32 12 43 00-0002	SY	1" Thick, Recycled Plastic Flexible Pavement With Sand Fill Note: Includes sand fill in rings. Excludes base, earthwork and grass or sod. Invisible Structures, Inc.; Grasspave2. For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	42.12 14.19 3.57 -1.46 -3.02	
32 12 73 Asphalt Paving Joint Sealants (32 12)				
32 12 73 00-0001		Expansion Joint In Sidewalk (32 12 73)		
32 12 73 00-0002	LF	For Hot Asphalt Poured Over Expansion Joint In Sidewalk	3.79	
32 13 Rigid Paving (32 10)				
32 13 13 Concrete Paving (32 13)				
Note: The following section includes spreading and placing delivered Portland cement concrete mix.				
32 13 13 33 Plain Concrete Paving (32 13 13)				
32 13 13 33-0001		Concrete Paving Assemblies (32 13 13 33) Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.		
32 13 13 33-0002		4,500 PSI Concrete Paving Assembly (32 13 13 33-0001) See CSI section 03 31 13 00-0016 for additional concrete at edges.		
32 13 13 33-0003	SY	4" 4,500 PSI Concrete Paving Assembly For 2,500 PSI Concrete, Deduct For 3,000 PSI Concrete, Deduct For 3,500 PSI Concrete, Deduct For 4,000 PSI Concrete, Deduct For 5,000 PSI Concrete, Add For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add For <12' Wide Pass, Add For 24' Or Greater Wide Pass, Deduct For Air Entrainment, Add For Slipforming, Deduct For Up To 100, Add For >100 To 250, Add For >250 To 500, Add For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000 To 20,000, Deduct For >20,000, Deduct	65.32 -3.75 -2.44 -1.96 -0.85 0.52 4.24 11.44 -13.06 1.63 -6.53 26.16 14.71 7.35 -1.63 -3.26 -4.90 -6.53 -8.16	
32 13 13 33-0004	SY	5" 4,500 PSI Concrete Paving Assembly For 2,500 PSI Concrete, Deduct For 3,000 PSI Concrete, Deduct For 3,500 PSI Concrete, Deduct For 4,000 PSI Concrete, Deduct For 5,000 PSI Concrete, Add For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add For <12' Wide Pass, Add For 24' Or Greater Wide Pass, Deduct For Air Entrainment, Add For Slipforming, Deduct For Up To 100, Add For >100 To 250, Add For >250 To 500, Add For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000 To 20,000, Deduct For >20,000, Deduct	77.27 -4.70 -3.07 -2.45 -1.06 0.65 5.32 13.18 -15.45 2.05 -7.73 30.00 17.05 8.52 -2.05 -3.98 -5.91 -7.84 -9.77	
32 13 13 33-0005	SY	6" 4,500 PSI Concrete Paving Assembly For 2,500 PSI Concrete, Deduct For 3,000 PSI Concrete, Deduct For 3,500 PSI Concrete, Deduct For 4,000 PSI Concrete, Deduct For 5,000 PSI Concrete, Add For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add For <12' Wide Pass, Add For 24' Or Greater Wide Pass, Deduct For Air Entrainment, Add For Slipforming, Deduct For Up To 100, Add For >100 To 250, Add For >250 To 500, Add For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000 To 20,000, Deduct For >20,000, Deduct	82.55 -4.96 -3.24 -2.59 -1.12 0.69 5.61 14.17 -16.51 2.16 -8.26 32.27 18.29 9.15 -2.16 -4.22 -6.29 -8.35 -10.41	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0006	SY	7"	4,500 PSI Concrete Paving Assembly	98.05	
			For 2,500 PSI Concrete, Deduct	-6.26	
			For 3,000 PSI Concrete, Deduct	-4.08	
			For 3,500 PSI Concrete, Deduct	-3.26	
			For 4,000 PSI Concrete, Deduct	-1.41	
			For 5,000 PSI Concrete, Add	0.87	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	7.07	
			For <12' Wide Pass, Add	16.35	
			For 24' Or Greater Wide Pass, Deduct	-19.61	
			For Air Entrainment, Add	2.72	
			For Slipforming, Deduct	-9.81	
			For Up To 100, Add	37.07	
			For >100 To 250, Add	21.25	
			For >250 To 500, Add	10.63	
			For >1,000 To 2,000, Deduct	-2.72	
			For >2,000 To 5,000, Deduct	-5.17	
			For >5,000 To 10,000, Deduct	-7.62	
			For >10,000 To 20,000, Deduct	-10.07	
			For >20,000, Deduct	-12.53	
32 13 13 33-0007	SY	8"	4,500 PSI Concrete Paving Assembly	112.10	
			For 2,500 PSI Concrete, Deduct	-6.87	
			For 3,000 PSI Concrete, Deduct	-4.48	
			For 3,500 PSI Concrete, Deduct	-3.58	
			For 4,000 PSI Concrete, Deduct	-1.55	
			For 5,000 PSI Concrete, Add	0.96	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	7.76	
			For <12' Wide Pass, Add	19.07	
			For 24' Or Greater Wide Pass, Deduct	-22.42	
			For Air Entrainment, Add	2.99	
			For Slipforming, Deduct	-11.21	
			For Up To 100, Add	43.37	
			For >100 To 250, Add	24.67	
			For >250 To 500, Add	12.34	
			For >1,000 To 2,000, Deduct	-2.99	
			For >2,000 To 5,000, Deduct	-5.79	
			For >5,000 To 10,000, Deduct	-8.59	
			For >10,000 To 20,000, Deduct	-11.39	
			For >20,000, Deduct	-14.20	
32 13 13 33-0008	SY	9"	4,500 PSI Concrete Paving Assembly	126.84	
			For 2,500 PSI Concrete, Deduct	-7.94	
			For 3,000 PSI Concrete, Deduct	-5.18	
			For 3,500 PSI Concrete, Deduct	-4.14	
			For 4,000 PSI Concrete, Deduct	-1.79	
			For 5,000 PSI Concrete, Add	1.10	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	8.97	
			For <12' Wide Pass, Add	21.36	
			For 24' Or Greater Wide Pass, Deduct	-25.37	
			For Air Entrainment, Add	3.45	
			For Slipforming, Deduct	-12.68	
			For Up To 100, Add	48.50	
			For >100 To 250, Add	27.70	
			For >250 To 500, Add	13.85	
			For >1,000 To 2,000, Deduct	-3.45	
			For >2,000 To 5,000, Deduct	-6.62	
			For >5,000 To 10,000, Deduct	-9.79	
			For >10,000 To 20,000, Deduct	-12.96	
			For >20,000, Deduct	-16.13	
32 13 13 33-0009	SY	10"	4,500 PSI Concrete Paving Assembly	141.38	
			For 2,500 PSI Concrete, Deduct	-8.73	
			For 3,000 PSI Concrete, Deduct	-5.69	
			For 3,500 PSI Concrete, Deduct	-4.55	
			For 4,000 PSI Concrete, Deduct	-1.97	
			For 5,000 PSI Concrete, Add	1.21	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	9.87	
			For <12' Wide Pass, Add	23.96	
			For 24' Or Greater Wide Pass, Deduct	-28.28	
			For Air Entrainment, Add	3.80	
			For Slipforming, Deduct	-14.14	
			For Up To 100, Add	54.46	
			For >100 To 250, Add	31.03	
			For >250 To 500, Add	15.51	
			For >1,000 To 2,000, Deduct	-3.80	
			For >2,000 To 5,000, Deduct	-7.33	
			For >5,000 To 10,000, Deduct	-10.86	
			For >10,000 To 20,000, Deduct	-14.40	
			For >20,000, Deduct	-17.93	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Rigid Paving			32 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0010 SY 12" 4,500 PSI Concrete Paving Assembly.....	168.45	
For 2,500 PSI Concrete, Deduct	-10.34	
For 3,000 PSI Concrete, Deduct	-6.74	
For 3,500 PSI Concrete, Deduct	-5.39	
For 4,000 PSI Concrete, Deduct	-2.34	
For 5,000 PSI Concrete, Add	1.44	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	11.69	
For <12' Wide Pass, Add	28.63	
For 24' Or Greater Wide Pass, Deduct	-33.69	
For Air Entrainment, Add	4.49	
For Slipforming, Deduct	-16.85	
For Up To 100, Add	65.11	
For >100 To 250, Add	37.05	
For >250 To 500, Add	18.53	
For >1,000 To 2,000, Deduct	-4.49	
For >2,000 To 5,000, Deduct	-8.71	
For >5,000 To 10,000, Deduct	-12.92	
For >10,000 To 20,000, Deduct	-17.13	
For >20,000, Deduct	-21.34	
32 13 13 33-0011 SY 15" 4,500 PSI Concrete Paving Assembly.....	214.65	
For 2,500 PSI Concrete, Deduct	-12.69	
For 3,000 PSI Concrete, Deduct	-8.28	
For 3,500 PSI Concrete, Deduct	-6.62	
For 4,000 PSI Concrete, Deduct	-2.87	
For 5,000 PSI Concrete, Add	1.77	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	14.35	
For <12' Wide Pass, Add	37.10	
For 24' Or Greater Wide Pass, Deduct	-42.93	
For Air Entrainment, Add	5.52	
For Slipforming, Deduct	-21.47	
For Up To 100, Add	84.63	
For >100 To 250, Add	47.84	
For >250 To 500, Add	23.92	
For >1,000 To 2,000, Deduct	-5.52	
For >2,000 To 5,000, Deduct	-10.89	
For >5,000 To 10,000, Deduct	-16.25	
For >10,000 To 20,000, Deduct	-21.62	
For >20,000, Deduct	-26.98	
32 13 16 Decorative Concrete Paving (32 13)		
32 13 16 13 Patterned Concrete Paving (32 13 16)		
See CSI section 32 17 26 00-0000 for tactile warning surfaces.		
32 13 16 13-0001 SF For Patterned (Tactile) Finish In Concrete Sidewalk.....	5.77	
32 13 43 Pervious Concrete Paving (32 13)		
32 13 43 00-0001 Pervious Concrete Assemblies (32 13 43)		
Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.		
32 13 43 00-0002 SF 6" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	19.29	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-2.06	
For >30,000 To 100,000, Deduct	-3.77	
For >100,000, Deduct	-4.68	
32 13 43 00-0003 SF 9" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	24.51	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-2.54	
For >30,000 To 100,000, Deduct	-4.56	
For >100,000, Deduct	-5.67	
32 13 73 Concrete Paving Joint Sealants (32 13)		
32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)		
32 13 73 13-0001 Concrete Pavement Joint And Crack Repair (32 13 73 13)		
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 13-0002 Silicone Concrete Pavement Joint And Crack Repair (32 13 73 13-0001)		
32 13 73 13-0003 CLF 1/4" x 1/4" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	647.12	
For Custom Match Coloring, Add	16.36	
For 1 Part Mildew Resistant, Add	23.85	
For High-Modulus Non-Acid Curing, Add	13.63	
32 13 73 13-0004 CLF 1/4" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	719.79	
For Custom Match Coloring, Add	24.53	
For 1 Part Mildew Resistant, Add	35.78	
For High-Modulus Non-Acid Curing, Add	20.44	
32 13 73 13-0005 CLF 1/4" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	792.47	
For Custom Match Coloring, Add	32.71	
For 1 Part Mildew Resistant, Add	47.71	
For High-Modulus Non-Acid Curing, Add	27.26	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 73 13-0006		CLF 3/8" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	809.50	
		For Custom Match Coloring, Add	36.80	
		For 1 Part Mildew Resistant, Add	53.67	
		For High-Modulus Non-Acid Curing, Add	30.67	
32 13 73 13-0007		CLF 3/8" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair	879.91	
		For Custom Match Coloring, Add	49.07	
		For 1 Part Mildew Resistant, Add	71.55	
		For High-Modulus Non-Acid Curing, Add	40.89	
32 13 73 13-0008		CLF 3/8" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	950.32	
		For Custom Match Coloring, Add	61.33	
		For 1 Part Mildew Resistant, Add	89.44	
		For High-Modulus Non-Acid Curing, Add	51.11	
32 13 73 13-0009		CLF 3/8" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,040.02	
		For Custom Match Coloring, Add	73.60	
		For 1 Part Mildew Resistant, Add	107.33	
		For High-Modulus Non-Acid Curing, Add	61.33	
32 13 73 13-0010		CLF 1/2" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair	967.36	
		For Custom Match Coloring, Add	65.42	
		For 1 Part Mildew Resistant, Add	95.41	
		For High-Modulus Non-Acid Curing, Add	54.52	
32 13 73 13-0011		CLF 1/2" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,112.70	
		For Custom Match Coloring, Add	81.78	
		For 1 Part Mildew Resistant, Add	119.26	
		For High-Modulus Non-Acid Curing, Add	68.15	
32 13 73 13-0012		CLF 1/2" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,219.45	
		For Custom Match Coloring, Add	98.13	
		For 1 Part Mildew Resistant, Add	143.11	
		For High-Modulus Non-Acid Curing, Add	81.78	
32 13 73 13-0013		CLF 1/2" x 7/8" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,326.19	
		For Custom Match Coloring, Add	114.49	
		For 1 Part Mildew Resistant, Add	166.96	
		For High-Modulus Non-Acid Curing, Add	95.41	
32 13 73 13-0014		CLF 1/2" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,413.63	
		For Custom Match Coloring, Add	130.84	
		For 1 Part Mildew Resistant, Add	190.81	
		For High-Modulus Non-Acid Curing, Add	109.04	
32 13 73 13-0015		CLF 3/4" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,501.08	
		For Custom Match Coloring, Add	147.20	
		For 1 Part Mildew Resistant, Add	214.67	
		For High-Modulus Non-Acid Curing, Add	122.67	
32 13 73 13-0016		CLF 3/4" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair	1,778.21	
		For Custom Match Coloring, Add	204.44	
		For 1 Part Mildew Resistant, Add	298.15	
		For High-Modulus Non-Acid Curing, Add	170.37	
32 13 73 13-0017		CLF 1" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair	2,055.32	
		For Custom Match Coloring, Add	261.69	
		For 1 Part Mildew Resistant, Add	381.63	
		For High-Modulus Non-Acid Curing, Add	218.07	
32 13 73 16		Field-Molded Concrete Paving Joint Sealants (32 13 73)		
32 13 73 16-0001		Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16)		
		Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 16-0002	LF	Joint Sealing, Concrete Pavement Preformed Elastomeric	14.48	
32 13 73 19		Compression Concrete Paving Joint Sealants (32 13 73)		
32 13 73 19-0001		Silicone Joint Sealant For Concrete Pavement (32 13 73 19)		
		Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73 19-0002		CLF 1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	590.48	122.90
		For >25 To 50, Deduct	-15.75	
		For >50 To 100, Deduct	-32.00	
		For >100 To 175, Deduct	-46.76	
		For >175 To 250, Deduct	-63.99	
		For >250, Deduct	-81.23	
32 13 73 19-0003		CLF 3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	668.16	131.09
		For >25 To 50, Deduct	-18.14	
		For >50 To 100, Deduct	-37.00	
		For >100 To 175, Deduct	-53.71	
		For >175 To 250, Deduct	-74.01	
		For >250, Deduct	-94.31	
32 13 73 19-0004		CLF 1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	771.45	139.29
		For >25 To 50, Deduct	-21.43	
		For >50 To 100, Deduct	-43.93	
		For >100 To 175, Deduct	-63.22	
		For >175 To 250, Deduct	-87.86	
		For >250, Deduct	-112.51	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Rigid Paving			32 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 73 19-0005	CLF	3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement		1,120.77	155.66
		For >25 To 50, Deduct		-33.00	
		For >50 To 100, Deduct		-68.49	
		For >100 To 175, Deduct		-96.51	
		For >175 To 250, Deduct		-136.98	
		For >250, Deduct		-177.45	
32 13 73 19-0006	CLF	1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	.....	1,526.54	184.35
		For >25 To 50, Deduct		-46.06	
		For >50 To 100, Deduct		-96.06	
		For >100 To 175, Deduct		-134.22	
		For >175 To 250, Deduct		-192.11	
		For >250, Deduct		-250.01	
32 13 73 19-0007	CLF	1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	.....	2,194.00	204.83
		For >25 To 50, Deduct		-68.60	
		For >50 To 100, Deduct		-144.07	
		For >100 To 175, Deduct		-198.92	
		For >175 To 250, Deduct		-288.14	
		For >250, Deduct		-377.35	
32 13 73 19-0008	CLF	2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	.....	3,059.59	227.59
		For >25 To 50, Deduct		-97.98	
		For >50 To 100, Deduct		-206.71	
		For >100 To 175, Deduct		-283.20	
		For >175 To 250, Deduct		-413.42	
		For >250, Deduct		-543.64	

32 14 Unit Paving (32 10)

32 14 09 Paver Restraints (32 14)

32 14 09 00-0001 Paver Restraints (32 14 09)

Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.

32 14 09 00-0002	LF	Up To 2" Height, Vinyl Paver Restraint	.....	5.43	1.21
		For >1,000 To 2,000, Deduct		-0.77	
		For >2,000 To 4,000, Deduct		-1.11	
		For >4,000, Deduct		-1.43	
32 14 09 00-0003	LF	Up To 2" Height, Galvanized Steel Paver Restraint	.....	5.90	1.21
		For >500 To 1,000, Deduct		-0.20	
		For >1,000 To 2,000, Deduct		-0.40	
		For >2,000, Deduct		-0.59	
32 14 09 00-0004	LF	Up To 1" Height, Aluminum Paver Restraint	.....	5.67	1.21
		For >250 To 500, Deduct		-0.37	
		For >500 To 1,000, Deduct		-0.56	
		For >1,000 To 1,500, Deduct		-0.93	
32 14 09 00-0005	LF	>1" To 2" Height, Aluminum Paver Restraint	.....	6.71	1.21
		For >250 To 500, Deduct		-0.48	
		For >500 To 1,000, Deduct		-0.71	
		For >1,000 To 1,500, Deduct		-1.19	
32 14 09 00-0006	LF	>2" To 3" Height, Aluminum Paver Restraint	.....	8.72	1.21
		For >250 To 500, Deduct		-0.68	
		For >500 To 1,000, Deduct		-1.02	
		For >1,000 To 1,500, Deduct		-1.69	
32 14 09 00-0007	LF	>3" To 4" Height, Aluminum Paver Restraint	.....	10.25	1.21
		For >250 To 500, Deduct		-0.83	
		For >500 To 1,000, Deduct		-1.25	
		For >1,000 To 1,500, Deduct		-2.08	

32 14 11 Bedding for Unit Paving (32 14)

32 14 11 00-0001 Bedding For Brick, Precast Concrete Paver And Stone Sidewalk (32 14 11)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 14 11 00-0002	SF	1" To 2" Screeded Sand Bedding	.....	1.18	
		For Up To 100, Add		0.53	
		For >100 To 500, Add		0.15	
		For >1,000 To 5,000, Deduct		-0.09	
		For >5,000, Deduct		-0.15	
32 14 11 00-0003	SF	1" To 2" Screeded Stone Dust Bedding	.....	1.39	
		For Up To 100, Add		0.58	
		For >100 To 500, Add		0.16	
		For >1,000 To 5,000, Deduct		-0.09	
		For >5,000, Deduct		-0.15	
32 14 11 00-0004	SF	3" Screeded Stone Dust Bedding	.....	1.78	
		For Up To 100, Add		0.72	
		For >100 To 500, Add		0.20	
		For >1,000 To 5,000, Deduct		-0.11	
		For >5,000, Deduct		-0.19	
32 14 11 00-0005	SF	4" Screeded Stone Dust Bedding	.....	2.23	
		For Up To 100, Add		0.89	
		For >100 To 500, Add		0.25	
		For >1,000 To 5,000, Deduct		-0.13	
		For >5,000, Deduct		-0.23	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 11 00-0006	SF	1" Mortar Bedding	3.73	
		For Up To 100, Add	1.70	
		For >100 To 500, Add	0.49	
		For >1,000 To 5,000, Deduct	-0.31	
		For >5,000, Deduct	-0.48	
32 14 11 00-0007	SF	2" Mortar Bedding	5.43	
		For Up To 100, Add	2.37	
		For >100 To 500, Add	0.68	
		For >1,000 To 5,000, Deduct	-0.41	
		For >5,000, Deduct	-0.65	
32 14 11 00-0008	SF	Thin-Set Latex Portland Cement Mortar	1.88	
		For Up To 100, Add	0.88	
		For >100 To 500, Add	0.26	
		For >1,000 To 5,000, Deduct	-0.16	
		For >5,000, Deduct	-0.25	
32 14 13 Precast Concrete Unit Paving (32 14)				
32 14 13 16 Precast Concrete Unit Paving Slabs (32 14 13)				
32 14 13 16-0001 Precast Concrete Paver Sidewalk (32 14 13 16)				
Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.				
32 14 13 16-0002	SF	2-3/8" Thick, Up To 32 SI Precast Concrete Paver	13.15	3.79
		Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.21	
		For 3-1/8" Concrete Paver, Add	1.95	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.04	
		For Up To 100, Add	5.19	
		For >100 To 500, Add	1.42	
		For >1,000 To 5,000, Deduct	-0.76	
		For >5,000, Deduct	-1.31	
32 14 13 16-0003	SF	2-3/8" Thick, >32 to 64 SI Precast Concrete Paver	12.45	3.46
		Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.18	
		For 3-1/8" Concrete Paver, Add	1.90	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.97	
		For Up To 100, Add	4.84	
		For >100 To 500, Add	1.31	
		For >1,000 To 5,000, Deduct	-0.69	
		For >5,000, Deduct	-1.20	
32 14 13 16-0004	SF	2-3/8" Thick, >64 to 144 SI Precast Concrete Paver	11.83	2.75
		Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.14	
		For 3-1/8" Concrete Paver, Add	1.86	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.91	
		For Up To 100, Add	4.53	
		For >100 To 500, Add	1.22	
		For >1,000 To 5,000, Deduct	-0.63	
		For >5,000, Deduct	-1.11	
32 14 13 16-0005	SF	2-3/8" Thick, >144 SI Precast Concrete Paver	11.25	2.86
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.12	
		For 3-1/8" Concrete Paver, Add	1.81	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.85	
		For Up To 100, Add	4.24	
		For >100 To 500, Add	1.13	
		For >1,000 To 5,000, Deduct	-0.57	
		For >5,000, Deduct	-1.02	
32 14 13 16-0006	SF	2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns	12.12	3.29
		Note: Patterns made by combining pavers from two or more size groups.		
		For 2-3/4" Concrete Paver, Add	1.16	
		For 3-1/8" Concrete Paver, Add	1.88	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.94	
		For Up To 100, Add	4.68	
		For >100 To 500, Add	1.27	
		For >1,000 To 5,000, Deduct	-0.66	
		For >5,000, Deduct	-1.15	
32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)				
32 14 13 19-0001 Turf Block (32 14 13 19)				
Note: Grass grid, open-cell unit paver, geoblock.				
32 14 13 19-0002	SF	3-1/8" Thick, Precast Concrete Turf Block	13.63	3.29
		For Up To 100, Add	5.06	
		For >100 To 500, Add	1.34	
		For >1,000 To 5,000, Deduct	-0.66	
		For >5,000, Deduct	-1.20	
32 14 16 Brick Unit Paving (32 14)				



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Unit Paving		32 14

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 16 00-0001			Brick Paver Sidewalk (32 14 16) Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 16 00-0002	SF		4" x 8" x 2-1/4" Brick Paver, Laid Flat For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	16.88 -3.62 8.28 1.23 6.13 1.61 -0.76 -1.42	3.79
32 14 16 00-0003	SF		4" x 8" x 2-1/4" Brick, Laid On Edge For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	25.13 -6.20 14.49 1.69 8.45 2.12 -0.87 -1.79	4.34
32 14 33			Plastic Paving (32 14)		
32 14 33 13			Permeable Plastic Paving (32 14 33)		
32 14 33 13-0001			Turf Block Plastic Paving (32 14 33 13)		
32 14 33 13-0002	SF		4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	20.57 6.79 1.69 -0.66 -1.41	3.29
32 14 40			Stone Paving (32 14)		
32 14 40 00-0001			Slate Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002	SF		1" Thick, Up to 54 SI Slate Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	17.18 1.17 -8.54 -5.95 5.87 1.49 -0.63 -1.27	3.15
32 14 40 00-0003	SF		1" Thick, >54 to 108 SI Slate Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	16.60 1.12 -8.39 -5.86 5.58 1.40 -0.57 -1.18	2.86
32 14 40 00-0004	SF		1" Thick, >108 to 216 SI Slate Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.61 1.02 -8.15 -5.71 5.09 1.25 -0.47 -1.04	2.36
32 14 40 00-0005	SF		1" Thick, >216 SI Slate Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.18 0.97 -8.04 -5.65 4.87 1.19 -0.43 -0.97	2.14
32 14 40 00-0006	SF		1" Thick, Slate Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	16.06 1.06 -8.26 -5.78 5.31 1.32 -0.52 -1.10	2.59

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 14 40 00-0007	Granite Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.				
32 14 40 00-0008	SF 1" Thick, Up to 54 SI Granite Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	33.93 2.01 1.70 3.39 3.71 10.06 2.33 -0.63 -1.77		3.15	
32 14 40 00-0009	SF 1" Thick, >54 to 108 SI Granite Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	33.35 1.95 1.67 3.34 3.62 9.77 2.24 -0.57 -1.69		2.86	
32 14 40 00-0010	SF 1" Thick, >108 to 216 SI Granite Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	32.36 1.85 1.62 3.24 3.47 9.27 2.09 -0.47 -1.54		2.36	
32 14 40 00-0011	SF 1" Thick, >216 SI Granite Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	31.93 1.81 1.60 3.19 3.41 9.06 2.03 -0.43 -1.47		2.14	
32 14 40 00-0012	SF 1" Thick, Granite Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	32.81 1.90 1.64 3.28 3.54 9.50 2.16 -0.52 -1.61		2.59	
32 14 40 00-0013	Cobble Stone (32 14 40) Note: Includes 6" thick 2,500 psi concrete mix with various colors of rounded 4" to 8" diameter cobble stones, half embedded in concrete.				
32 14 40 00-0014	SF 4" to 8" diameter cobble stones, various colors, Up To 500 SF	37.98			
32 14 40 00-0015	SF 4" to 8" diameter cobble stones, various colors, > 500 SF Note: Half embedded in minimum 6" thick 2500 psi concrete mix.	29.85			
32 15 Aggregate Surfacing (32 15)					
32 15 40 Crushed Stone Surfacing (32 15) Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.					
32 15 40 00-0001	Gravel Surfacing And Spreading (32 15 40) Note: Includes delivered material, placement, rolling and compaction water.				
32 15 40 00-0002	CY Gravel Surfacing And Spreading	111.12			
32 15 40 00-0003	Limestone Screenings (32 15 40) Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.				
32 15 40 00-0004	CY Limestone Screenings For Trail	77.28			
32 15 40 00-0005	Decomposed Granite (32 15 40) Note: Includes delivered material, placement, rolling and compaction water.				



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Aggregate Surfacing			32 15

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 15 40 00-0006	SY		3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway Note: Placed in 2 lifts. For Additional 2" Lift For >45 To 180, Deduct For >180 To 450, Deduct For >450, Deduct	21.03 10.52 -1.42 -1.78 -2.15	
32 16 Curbs, Gutters, Sidewalks, and Driveways (32 16)					
32 16 13 Curbs and Gutters (32 16)					
Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0057 for additional saw cuts within the 100'.					
32 16 13 13 Cast-In-Place Concrete Curbs and Gutters (32 16 13)					
Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.					
32 16 13 13-0001 CALTRANS Cast In Place Concrete Curbs Assemblies (32 16 13 13)					
Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.					
32 16 13 13-0002	LF		CALTRANS Type A1-6 Straight Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	29.68 17.13 9.68 3.72 -3.72 -6.33	12.79
32 16 13 13-0003	LF		CALTRANS Type A1-6 Radius Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	33.26 19.60 11.09 4.25 -4.25 -7.21	14.70
32 16 13 13-0004	LF		CALTRANS Type A1-8 Straight Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	31.21 18.71 10.60 4.05 -4.05 -6.86	12.79
32 16 13 13-0005	LF		CALTRANS Type A1-8 Radius Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	33.53 20.29 11.50 4.39 -4.39 -7.43	14.70
32 16 13 13-0006	LF		CALTRANS Type A3-6 Straight Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	15.99 9.59 5.44 2.08 -2.08 -3.52	8.64
32 16 13 13-0007	LF		CALTRANS Type A3-6 Radius Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	18.55 11.39 6.46 2.46 -2.46 -4.16	9.97
32 16 13 13-0008	LF		CALTRANS Type A3-8 Straight Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	17.71 10.45 5.91 2.27 -2.27 -3.84	8.95
32 16 13 13-0009	LF		CALTRANS Type A3-8 Radius Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	20.39 12.32 6.99 2.67 -2.67 -4.51	10.74
32 16 13 13-0010	LF		CALTRANS Type B1-4 Straight Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	27.05 15.64 8.84 3.40 -3.40 -5.77	12.79
32 16 13 13-0011	LF		CALTRANS Type B1-4 Straight Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	30.31 17.89 10.13 3.88 -3.88 -6.58	14.70
32 16 13 13-0012	LF		CALTRANS Type B1-6 Straight Concrete Curb Assembly..... For Up To 20, Add For >20 To 50, Add For >50 To 100, Add For >500 To 1,000, Deduct For >1,000, Deduct	30.29 17.25 9.74 3.75 -3.75 -6.39	12.79

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0013 LF CALTRANS Type B1-6 Radius Concrete Curb Assembly	33.87	14.70
For Up To 20, Add	19.72	
For >20 To 50, Add	11.15	
For >50 To 100, Add	4.28	
For >500 To 1,000, Deduct	-4.28	
For >1,000, Deduct	-7.27	
32 16 13 13-0014 LF CALTRANS Type B3-4 Straight Concrete Curb Assembly	117.58	7.80
For Up To 20, Add	81.06	
For >20 To 50, Add	46.28	
For >50 To 100, Add	17.39	
For >500 To 1,000, Deduct	-17.39	
For >1,000, Deduct	-29.02	
32 16 13 13-0015 LF CALTRANS Type B3-4 Radius Concrete Curb Assembly	16.31	8.95
For Up To 20, Add	10.17	
For >20 To 50, Add	5.77	
For >50 To 100, Add	2.20	
For >500 To 1,000, Deduct	-2.20	
For >1,000, Deduct	-3.70	
32 16 13 13-0016 LF CALTRANS Type B3-6 Straight Concrete Curb Assembly	15.67	8.06
For Up To 20, Add	9.34	
For >20 To 50, Add	5.29	
For >50 To 100, Add	2.02	
For >500 To 1,000, Deduct	-2.02	
For >1,000, Deduct	-3.43	
32 16 13 13-0017 LF CALTRANS Type B3-6 Radius Concrete Curb Assembly	18.09	9.72
For Up To 20, Add	11.03	
For >20 To 50, Add	6.26	
For >50 To 100, Add	2.39	
For >500 To 1,000, Deduct	-2.39	
For >1,000, Deduct	-4.03	
32 16 13 13-0018 LF CALTRANS Type D-4 Straight Concrete Curb Assembly	30.41	12.79
For Up To 20, Add	16.31	
For >20 To 50, Add	9.18	
For >50 To 100, Add	3.57	
For >500 To 1,000, Deduct	-3.57	
For >1,000, Deduct	-6.11	
32 16 13 13-0019 LF CALTRANS Type D-4 Radius Concrete Curb Assembly	33.67	14.70
For Up To 20, Add	18.56	
For >20 To 50, Add	10.46	
For >50 To 100, Add	4.05	
For >500 To 1,000, Deduct	-4.05	
For >1,000, Deduct	-6.91	
32 16 13 13-0020 LF CALTRANS Type D-6 Straight Concrete Curb Assembly	35.22	12.79
For Up To 20, Add	17.27	
For >20 To 50, Add	9.66	
For >50 To 100, Add	3.81	
For >500 To 1,000, Deduct	-3.81	
For >1,000, Deduct	-6.59	
32 16 13 13-0021 LF CALTRANS Type D-6 Radius Concrete Curb Assembly	38.49	14.70
For Up To 20, Add	19.52	
For >20 To 50, Add	10.94	
For >50 To 100, Add	4.29	
For >500 To 1,000, Deduct	-4.29	
For >1,000, Deduct	-7.40	
32 16 13 13-0022 CALTRANS Cast In Place Concrete Curb And Gutter Assemblies (32 16 13 13)		
Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0023 LF CALTRANS Type A2-6 Straight Concrete Curb And Gutter Assembly	61.96	24.33
For Up To 20, Add	42.04	
For >20 To 50, Add	23.46	
For >50 To 100, Add	9.29	
For >500 To 1,000, Deduct	-7.97	
For >1,000, Deduct	-13.50	
For Mountable Or Rolled Curb And Gutter, Add	4.14	
32 16 13 13-0024 LF CALTRANS Type A2-6 Radius Concrete Curb And Gutter Assembly	67.08	26.90
For Up To 20, Add	45.63	
For >20 To 50, Add	25.50	
For >50 To 100, Add	10.06	
For >500 To 1,000, Deduct	-8.73	
For >1,000, Deduct	-14.78	
For Mountable Or Rolled Curb And Gutter, Add	4.65	
32 16 13 13-0025 LF CALTRANS Type A2-8 Straight Concrete Curb And Gutter Assembly	66.60	24.33
For Up To 20, Add	45.19	
For >20 To 50, Add	25.21	
For >50 To 100, Add	9.99	
For >500 To 1,000, Deduct	-8.56	
For >1,000, Deduct	-14.51	
For Mountable Or Rolled Curb And Gutter, Add	4.45	
32 16 13 13-0026 LF CALTRANS Type A2-8 Radius Concrete Curb And Gutter Assembly	72.11	26.90
For Up To 20, Add	49.05	
For >20 To 50, Add	27.42	
For >50 To 100, Add	10.82	
For >500 To 1,000, Deduct	-9.39	
For >1,000, Deduct	-15.89	
For Mountable Or Rolled Curb And Gutter, Add	5.00	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Curbs, Gutters, Sidewalks, and Driveways			32 16

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0027	LF		CALTRANS Type B2-4 Straight Concrete Curb And Gutter Assembly	34.11	13.96
			For Up To 20, Add	22.62	
			For >20 To 50, Add	12.39	
			For >50 To 100, Add	5.12	
			For >500 To 1,000, Deduct	-3.86	
			For >1,000, Deduct	-6.64	
			For Mountable Or Rolled Curb And Gutter, Add	1.46	
32 16 13 13-0028	LF		CALTRANS Type B2-4 Radius Concrete Curb And Gutter Assembly.....	36.16	15.38
			For Up To 20, Add	24.05	
			For >20 To 50, Add	13.21	
			For >50 To 100, Add	5.42	
			For >500 To 1,000, Deduct	-4.17	
			For >1,000, Deduct	-7.15	
			For Mountable Or Rolled Curb And Gutter, Add	1.66	
32 16 13 13-0029	LF		CALTRANS Type B2-6 Straight Concrete Curb And Gutter Assembly	40.66	15.38
			For Up To 20, Add	27.09	
			For >20 To 50, Add	14.89	
			For >50 To 100, Add	6.10	
			For >500 To 1,000, Deduct	-4.72	
			For >1,000, Deduct	-8.10	
			For Mountable Or Rolled Curb And Gutter, Add	1.93	
32 16 13 13-0030	LF		CALTRANS Type B2-6 Radius Concrete Curb And Gutter Assembly.....	43.22	20.50
			For Up To 20, Add	28.88	
			For >20 To 50, Add	15.91	
			For >50 To 100, Add	6.48	
			For >500 To 1,000, Deduct	-5.11	
			For >1,000, Deduct	-8.74	
			For Mountable Or Rolled Curb And Gutter, Add	2.19	
32 16 13 13-0031	LF		CALTRANS Type B4-6 Straight Concrete Curb And Gutter Assembly	66.49	26.77
			For Up To 20, Add	45.25	
			For >20 To 50, Add	25.30	
			For >50 To 100, Add	9.97	
			For >500 To 1,000, Deduct	-8.68	
			For >1,000, Deduct	-14.68	
			For Mountable Or Rolled Curb And Gutter, Add	4.64	
32 16 13 13-0032	LF		CALTRANS Type B4-6 Radius Concrete Curb And Gutter Assembly.....	71.36	29.20
			For Up To 20, Add	48.66	
			For >20 To 50, Add	27.25	
			For >50 To 100, Add	10.70	
			For >500 To 1,000, Deduct	-9.41	
			For >1,000, Deduct	-15.90	
			For Mountable Or Rolled Curb And Gutter, Add	5.13	
32 16 13 13-0033	LF		CALTRANS Type E Straight Concrete Curb And Gutter Assembly.....	70.98	28.18
			For Up To 20, Add	48.22	
			For >20 To 50, Add	26.93	
			For >50 To 100, Add	10.65	
			For >500 To 1,000, Deduct	-9.19	
			For >1,000, Deduct	-15.55	
			For Mountable Or Rolled Curb And Gutter, Add	4.83	
32 16 13 13-0034	LF		CALTRANS Type E Radius Concrete Curb And Gutter Assembly.....	76.11	30.74
			For Up To 20, Add	51.82	
			For >20 To 50, Add	28.98	
			For >50 To 100, Add	11.42	
			For >500 To 1,000, Deduct	-9.95	
			For >1,000, Deduct	-16.83	
			For Mountable Or Rolled Curb And Gutter, Add	5.34	
32 16 13 13-0035 Cast In Place Concrete Curbs Assemblies (32 16 13 13)					
Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.					
32 16 13 13-0036	LF		"B3" Cast In Place Concrete Curb	14.25	12.79
32 16 13 13-0037	LF		"B3" Cast In Place Concrete Curb - Radius.....	16.15	14.70
32 16 13 13-0038	LF		"B1" Cast In Place Concrete Curb	31.70	12.79
32 16 13 13-0039	LF		"B1" Cast In Place Concrete Curb - Radius.....	36.25	14.07
32 16 13 13-0040	LF		"A1-150" Cast In Place Concrete Curb	31.05	12.79
32 16 13 13-0041	LF		"A1-150" Cast In Place Concrete Curb - Radius.....	35.51	14.07
32 16 13 13-0042	LF		"A1-200" Cast In Place Concrete Curb	31.98	12.79
32 16 13 13-0043	LF		"A1-200" Cast In Place Concrete Curb - Radius.....	36.57	14.07
32 16 13 13-0044	LF		6" x 12" Cast In Place Concrete Curb.....	26.46	12.79
			For Mountable Curb, Add	1.72	
			For Up To 20, Add	15.52	
			For >20 To 50, Add	8.78	
			For >50 To 100, Add	3.37	
			For >500 To 1,000, Deduct	-3.37	
			For >1,000, Deduct	-5.72	
32 16 13 13-0045	LF		6" x 12" Cast In Place Concrete Curb - Radius.....	30.05	14.70
			For Mountable Curb, Add	2.01	
			For Up To 20, Add	17.84	
			For >20 To 50, Add	10.10	
			For >50 To 100, Add	3.87	
			For >500 To 1,000, Deduct	-3.87	
			For >1,000, Deduct	-6.55	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0046 LF 6" x 14" Cast In Place Concrete Curb	28.85	12.79
For Mountable Curb, Add	1.88	
For Up To 20, Add	16.96	
For >20 To 50, Add	9.60	
For >50 To 100, Add	3.68	
For >500 To 1,000, Deduct	-3.68	
For >1,000, Deduct	-6.24	
32 16 13 13-0047 LF 6" x 14" Cast In Place Concrete Curb - Radius	32.81	14.70
For Mountable Curb, Add	2.21	
For Up To 20, Add	19.51	
For >20 To 50, Add	11.05	
For >50 To 100, Add	4.23	
For >500 To 1,000, Deduct	-4.23	
For >1,000, Deduct	-7.16	
32 16 13 13-0048 LF 6" x 16" Cast In Place Concrete Curb	31.54	12.79
For Mountable Curb, Add	2.03	
For Up To 20, Add	18.46	
For >20 To 50, Add	10.44	
For >50 To 100, Add	4.01	
For >500 To 1,000, Deduct	-4.01	
For >1,000, Deduct	-6.80	
32 16 13 13-0049 LF 6" x 16" Cast In Place Concrete Curb - Radius	35.73	19.18
For Mountable Curb, Add	2.40	
For Up To 20, Add	21.21	
For >20 To 50, Add	12.01	
For >50 To 100, Add	4.60	
For >500 To 1,000, Deduct	-4.60	
For >1,000, Deduct	-7.79	
32 16 13 13-0050 LF 6" x 18" Cast In Place Concrete Curb	33.62	12.79
For Mountable Curb, Add	2.16	
For Up To 20, Add	19.64	
For >20 To 50, Add	11.11	
For >50 To 100, Add	4.27	
For >500 To 1,000, Deduct	-4.27	
For >1,000, Deduct	-7.24	
32 16 13 13-0051 LF 6" x 18" Cast In Place Concrete Curb - Radius	37.76	14.70
For Mountable Curb, Add	2.48	
For Up To 20, Add	22.25	
For >20 To 50, Add	12.60	
For >50 To 100, Add	4.83	
For >500 To 1,000, Deduct	-4.83	
For >1,000, Deduct	-8.19	
32 16 13 13-0052 LF 6" x 24" Cast In Place Concrete Curb	38.29	14.07
For Mountable Curb, Add	2.30	
For Up To 20, Add	21.87	
For >20 To 50, Add	12.36	
For >50 To 100, Add	4.76	
For >500 To 1,000, Deduct	-4.76	
For >1,000, Deduct	-8.09	
32 16 13 13-0053 LF 6" x 24" Cast In Place Concrete Curb - Radius	42.61	15.98
For Mountable Curb, Add	2.61	
For Up To 20, Add	24.50	
For >20 To 50, Add	13.85	
For >50 To 100, Add	5.33	
For >500 To 1,000, Deduct	-5.33	
For >1,000, Deduct	-9.06	
32 16 13 13-0054 LF 12" x 24" Cast In Place Concrete Curb	48.38	15.98
For Mountable Curb, Add	2.29	
For Up To 20, Add	25.66	
For >20 To 50, Add	14.43	
For >50 To 100, Add	5.62	
For >500 To 1,000, Deduct	-5.62	
For >1,000, Deduct	-9.63	
32 16 13 13-0055 LF 12" x 24" Cast In Place Concrete Curb - Radius	53.65	17.90
For Mountable Curb, Add	2.60	
For Up To 20, Add	28.63	
For >20 To 50, Add	16.11	
For >50 To 100, Add	6.26	
For >500 To 1,000, Deduct	-6.26	
For >1,000, Deduct	-10.74	
32 16 13 13-0056 EA Additional Finish For Handicap Drop Section In Curb	95.90	
32 16 13 13-0057 Cast In Place Concrete Curb And Gutter Assemblies (32 16 13 13)		
Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0058 LF "A2-6 Modified" Concrete Curb And Gutter - Straight	36.72	15.38
For Up To 20, Add	24.72	
For >20 To 50, Add	13.71	
For >50 To 100, Add	5.51	
For >500 To 1,000, Deduct	-4.53	
For >1,000, Deduct	-7.71	
For Mountable Or Rolled Curb And Gutter, Add	2.15	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0059	LF		"A2-6 Modified" Concrete Curb And Gutter - Radius	40.32	15.38
			For Up To 20, Add	27.14	
			For >20 To 50, Add	15.04	
			For >50 To 100, Add	6.05	
			For >500 To 1,000, Deduct	-4.96	
			For >1,000, Deduct	-8.45	
			For Mountable Or Rolled Curb And Gutter, Add	2.35	
32 16 13 13-0060	LF		"A2-6" Concrete Curb And Gutter - Straight.....	48.97	20.50
			For Up To 20, Add	33.48	
			For >20 To 50, Add	18.79	
			For >50 To 100, Add	7.35	
			For >500 To 1,000, Deduct	-6.55	
			For >1,000, Deduct	-11.05	
			For Mountable Or Rolled Curb And Gutter, Add	3.66	
32 16 13 13-0061	LF		"A2-6" Concrete Curb And Gutter - Radius.....	60.95	23.06
			For Up To 20, Add	41.18	
			For >20 To 50, Add	22.90	
			For >50 To 100, Add	9.14	
			For >500 To 1,000, Deduct	-7.66	
			For >1,000, Deduct	-13.01	
			For Mountable Or Rolled Curb And Gutter, Add	3.79	
32 16 13 13-0062	LF		"B-2" Concrete Curb And Gutter - Straight.....	58.59	22.42
			For Up To 20, Add	39.64	
			For >20 To 50, Add	22.06	
			For >50 To 100, Add	8.79	
			For >500 To 1,000, Deduct	-7.41	
			For >1,000, Deduct	-12.58	
			For Mountable Or Rolled Curb And Gutter, Add	3.73	
32 16 13 13-0063	LF		"B-2" Concrete Curb And Gutter - Radius.....	60.14	22.42
			For Up To 20, Add	40.57	
			For >20 To 50, Add	22.53	
			For >50 To 100, Add	9.02	
			For >500 To 1,000, Deduct	-7.49	
			For >1,000, Deduct	-12.74	
			For Mountable Or Rolled Curb And Gutter, Add	3.64	
32 16 13 13-0064	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	35.15	15.38
			For Up To 20, Add	23.78	
			For >20 To 50, Add	13.24	
			For >50 To 100, Add	5.27	
			For >500 To 1,000, Deduct	-4.45	
			For >1,000, Deduct	-7.55	
			For Mountable Or Rolled Curb And Gutter, Add	2.24	
32 16 13 13-0065	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	38.14	20.50
			For Up To 20, Add	25.83	
			For >20 To 50, Add	14.39	
			For >50 To 100, Add	5.72	
			For >500 To 1,000, Deduct	-4.85	
			For >1,000, Deduct	-8.23	
			For Mountable Or Rolled Curb And Gutter, Add	2.47	
32 16 13 13-0066	LF		6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	43.99	17.04
			For Up To 20, Add	29.79	
			For >20 To 50, Add	16.59	
			For >50 To 100, Add	6.60	
			For >500 To 1,000, Deduct	-5.59	
			For >1,000, Deduct	-9.49	
			For Mountable Or Rolled Curb And Gutter, Add	2.84	
32 16 13 13-0067	LF		6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	48.41	18.96
			For Up To 20, Add	32.83	
			For >20 To 50, Add	18.30	
			For >50 To 100, Add	7.26	
			For >500 To 1,000, Deduct	-6.20	
			For >1,000, Deduct	-10.51	
			For Mountable Or Rolled Curb And Gutter, Add	3.19	
32 16 13 13-0068	LF		6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	52.83	20.50
			For Up To 20, Add	35.80	
			For >20 To 50, Add	19.95	
			For >50 To 100, Add	7.92	
			For >500 To 1,000, Deduct	-6.74	
			For >1,000, Deduct	-11.43	
			For Mountable Or Rolled Curb And Gutter, Add	3.45	
32 16 13 13-0069	LF		6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	58.67	23.06
			For Up To 20, Add	39.81	
			For >20 To 50, Add	22.21	
			For >50 To 100, Add	8.80	
			For >500 To 1,000, Deduct	-7.54	
			For >1,000, Deduct	-12.78	
			For Mountable Or Rolled Curb And Gutter, Add	3.92	
32 16 13 13-0070	LF		6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	62.33	24.33
			For Up To 20, Add	42.27	
			For >20 To 50, Add	23.57	
			For >50 To 100, Add	9.35	
			For >500 To 1,000, Deduct	-7.98	
			For >1,000, Deduct	-13.54	
			For Mountable Or Rolled Curb And Gutter, Add	4.12	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0071 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	68.31	26.90
For Up To 20, Add	46.37	
For >20 To 50, Add	25.87	
For >50 To 100, Add	10.25	
For >500 To 1,000, Deduct	-8.80	
For >1,000, Deduct	-14.90	
For Mountable Or Rolled Curb And Gutter, Add	4.58	
32 16 13 13-0072 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	71.81	28.18
For Up To 20, Add	48.72	
For >20 To 50, Add	27.18	
For >50 To 100, Add	10.77	
For >500 To 1,000, Deduct	-9.23	
For >1,000, Deduct	-15.64	
For Mountable Or Rolled Curb And Gutter, Add	4.79	
32 16 13 13-0073 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	77.95	30.74
For Up To 20, Add	52.92	
For >20 To 50, Add	29.53	
For >50 To 100, Add	11.69	
For >500 To 1,000, Deduct	-10.05	
For >1,000, Deduct	-17.02	
For Mountable Or Rolled Curb And Gutter, Add	5.24	
32 16 13 13-0074 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	81.30	32.03
For Up To 20, Add	55.19	
For >20 To 50, Add	30.80	
For >50 To 100, Add	12.20	
For >500 To 1,000, Deduct	-10.47	
For >1,000, Deduct	-17.74	
For Mountable Or Rolled Curb And Gutter, Add	5.46	
32 16 13 13-0075 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	90.15	35.86
For Up To 20, Add	61.26	
For >20 To 50, Add	34.22	
For >50 To 100, Add	13.52	
For >500 To 1,000, Deduct	-11.68	
For >1,000, Deduct	-19.78	
For Mountable Or Rolled Curb And Gutter, Add	6.16	

32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13)

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0001 Curbs, Machine Formed, Slip Form (32 16 13 14)

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0002 EA Minimum Set-up Charge For Machine Formed Concrete Curb (One Time Per Job)	1,689.35	
Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.		
32 16 13 14-0003 LF 6" x 12" Straight Concrete Curb, Machine Formed	13.77	
32 16 13 14-0004 LF 6" x 12" Curved Concrete Curb, Machine Formed	18.88	
32 16 13 14-0005 LF 6" x 18" Straight Concrete Curb, Machine Formed	18.17	
32 16 13 14-0006 LF 6" x 18" Curved Concrete Curb, Machine Formed	24.22	

32 16 13 16 Steel Faced Curbs (32 16 13)

Note: Fabrication includes handicap and other curb access cuts.

32 16 13 16-0001 Sidewalk/Curb Facing (32 16 13 16)

Note: Fabrication includes handicap and other curb access cuts.

32 16 13 16-0002 LF 3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	17.94	5.85
For Curved Section, Add	3.98	
32 16 13 16-0003 LF 4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	19.77	6.65
For Curved Section, Add	4.47	
32 16 13 16-0004 LF 6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	26.54	7.45
For Curved Section, Add	5.46	
32 16 13 16-0005 LF 8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	32.51	8.39
For Curved Section, Add	6.37	
32 16 13 16-0006 LF 10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	39.70	9.18
For Curved Section, Add	7.41	
32 16 13 16-0007 LF 12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	51.88	11.71
For Curved Section, Add	9.56	
32 16 13 16-0008 LF 13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	59.95	15.17
For Curved Section, Add	11.66	
32 16 13 16-0009 EA Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section	186.23	
32 16 13 16-0010 EA Pedestrian/Handicap Ramp, Complete	159.42	

32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19)

Note: Includes concrete, forms, rebar, expansion joints, finish and curing.

32 16 13 19-0002 LF 2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	24.81	
For Up To 20, Add	11.67	
For >20 To 50, Add	6.50	
For >50 To 100, Add	2.58	
For >500 To 1,000, Deduct	-2.58	
For >1,000, Deduct	-4.49	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0003	LF	2-1/2'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	30.41	
			For Up To 20, Add	14.16	
			For >20 To 50, Add	7.89	
			For >50 To 100, Add	3.14	
			For >500 To 1,000, Deduct	-3.14	
			For >1,000, Deduct	-5.46	
32 16 13 19-0004	LF	3'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	35.93	
			For Up To 20, Add	16.60	
			For >20 To 50, Add	9.24	
			For >50 To 100, Add	3.68	
			For >500 To 1,000, Deduct	-3.68	
			For >1,000, Deduct	-6.42	
32 16 13 19-0005	LF	3-1/2'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	41.42	
			For Up To 20, Add	19.01	
			For >20 To 50, Add	10.58	
			For >50 To 100, Add	4.22	
			For >500 To 1,000, Deduct	-4.22	
			For >1,000, Deduct	-7.36	
32 16 13 19-0006	LF	4'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	46.93	
			For Up To 20, Add	21.45	
			For >20 To 50, Add	11.93	
			For >50 To 100, Add	4.76	
			For >500 To 1,000, Deduct	-4.76	
			For >1,000, Deduct	-8.31	
32 16 13 19-0007	LF	5'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	55.65	
			For Up To 20, Add	24.70	
			For >20 To 50, Add	13.71	
			For >50 To 100, Add	5.50	
			For >500 To 1,000, Deduct	-5.50	
			For >1,000, Deduct	-9.64	
32 16 13 19-0008	LF	6'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	64.01	
			For Up To 20, Add	27.70	
			For >20 To 50, Add	15.34	
			For >50 To 100, Add	6.18	
			For >500 To 1,000, Deduct	-6.18	
			For >1,000, Deduct	-10.87	
32 16 13 19-0009	SF	>6'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	10.67	
			For Up To 100, Add	4.62	
			For >100 To 250, Add	2.56	
			For >250 To 500, Add	1.03	
			For >2,500 To 5,000, Deduct	-1.03	
			For >5,000, Deduct	-1.81	
32 16 13 19-0010	LF	2'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	27.25	
			For Up To 20, Add	12.52	
			For >20 To 50, Add	6.96	
			For >50 To 100, Add	2.78	
			For >500 To 1,000, Deduct	-2.78	
			For >1,000, Deduct	-4.84	
32 16 13 19-0011	LF	2-1/2'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	33.64	
			For Up To 20, Add	15.35	
			For >20 To 50, Add	8.54	
			For >50 To 100, Add	3.41	
			For >500 To 1,000, Deduct	-3.41	
			For >1,000, Deduct	-5.95	
32 16 13 19-0012	LF	3'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	39.53	
			For Up To 20, Add	17.83	
			For >20 To 50, Add	9.91	
			For >50 To 100, Add	3.96	
			For >500 To 1,000, Deduct	-3.96	
			For >1,000, Deduct	-6.93	
32 16 13 19-0013	LF	3-1/2'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	45.62	
			For Up To 20, Add	20.45	
			For >20 To 50, Add	11.36	
			For >50 To 100, Add	4.55	
			For >500 To 1,000, Deduct	-4.55	
			For >1,000, Deduct	-7.96	
32 16 13 19-0014	LF	4'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	51.71	
			For Up To 20, Add	23.07	
			For >20 To 50, Add	12.81	
			For >50 To 100, Add	5.13	
			For >500 To 1,000, Deduct	-5.13	
			For >1,000, Deduct	-8.99	
32 16 13 19-0015	LF	5'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	61.45	
			For Up To 20, Add	26.61	
			For >20 To 50, Add	14.74	
			For >50 To 100, Add	5.94	
			For >500 To 1,000, Deduct	-5.94	
			For >1,000, Deduct	-10.44	
32 16 13 19-0016	LF	6'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	70.83	
			For Up To 20, Add	29.90	
			For >20 To 50, Add	16.52	
			For >50 To 100, Add	6.69	
			For >500 To 1,000, Deduct	-6.69	
			For >1,000, Deduct	-11.80	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0017	SF	>6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	11.80	
		For Up To 100, Add	4.98	
		For >100 To 250, Add	2.75	
		For >250 To 500, Add	1.11	
		For >2,500 To 5,000, Deduct	-1.11	
		For >5,000, Deduct	-1.97	
32 16 13 19-0018	LF	2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	27.47	
		For Up To 20, Add	12.93	
		For >20 To 50, Add	7.21	
		For >50 To 100, Add	2.86	
		For >500 To 1,000, Deduct	-2.86	
		For >1,000, Deduct	-4.98	
32 16 13 19-0019	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	33.68	
		For Up To 20, Add	15.70	
		For >20 To 50, Add	8.75	
		For >50 To 100, Add	3.48	
		For >500 To 1,000, Deduct	-3.48	
		For >1,000, Deduct	-6.06	
32 16 13 19-0020	LF	3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	39.79	
		For Up To 20, Add	18.40	
		For >20 To 50, Add	10.25	
		For >50 To 100, Add	4.08	
		For >500 To 1,000, Deduct	-4.08	
		For >1,000, Deduct	-7.11	
32 16 13 19-0021	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	45.90	
		For Up To 20, Add	21.11	
		For >20 To 50, Add	11.75	
		For >50 To 100, Add	4.68	
		For >500 To 1,000, Deduct	-4.68	
		For >1,000, Deduct	-8.17	
32 16 13 19-0022	LF	4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	52.01	
		For Up To 20, Add	23.81	
		For >20 To 50, Add	13.24	
		For >50 To 100, Add	5.28	
		For >500 To 1,000, Deduct	-5.28	
		For >1,000, Deduct	-9.22	
32 16 13 19-0023	LF	5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	61.67	
32 16 13 19-0024	LF	6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	70.93	
32 16 13 19-0025	SF	>6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	11.82	
		For Up To 100, Add	5.12	
		For >100 To 250, Add	2.84	
		For >250 To 500, Add	1.14	
		For >2,500 To 5,000, Deduct	-1.14	
		For >5,000, Deduct	-2.01	
32 16 13 19-0026		Gutter Intersections (32 16 13 19)		
		Note: Assembly includes installation, concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0027	EA	Cast In Place Concrete Cross Gutter At T Section.....	1,231.85	
32 16 13 19-0028	EA	8' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	1,489.21	
32 16 13 19-0029	EA	10' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	2,326.89	
32 16 13 19-0030	EA	15' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	5,235.52	
32 16 13 19-0031	EA	20' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	9,307.58	
32 16 13 19-0032	EA	25' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	14,543.11	
32 16 13 19-0033	EA	30' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	20,942.07	
32 16 13 19-0034		Driveway Approach, Cast In Place (32 16 13 19)		
		Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0035	SF	4 Cast In Place Concrete Driveway Approach.....	15.83	
		For Up To 100, Add	7.13	
		For >100 To 500, Add	2.06	
		For >2,000 To 5,000, Deduct	-0.95	
		For >5,000 To 10,000, Deduct	-2.06	
32 16 13 19-0036	SF	6" Cast In Place Concrete Driveway Approach.....	21.65	
		For Up To 100, Add	9.74	
		For >100 To 500, Add	2.81	
		For >2,000 To 5,000, Deduct	-1.30	
		For >5,000 To 10,000, Deduct	-2.81	
32 16 13 23		Precast Concrete Curbs and Gutters (32 16 13)		
32 16 13 23-0001		Precast Concrete Curb (32 16 13 23)		
32 16 13 23-0002	LF	6" x 18" Precast Concrete Curb.....	46.83	11.29
32 16 13 23-0003	LF	6" x 18" Precast Concrete Curb, Radius.....	55.82	12.98
32 16 13 23-0004	LF	6" x 20" Precast Concrete Curb.....	49.60	11.29
32 16 13 23-0005	LF	6" x 20" Precast Concrete Curb, Radius.....	59.49	12.98
32 16 13 23-0006	LF	7" x 18" Precast Concrete Curb.....	50.87	11.29
32 16 13 23-0007	LF	7" x 18" Precast Concrete Curb, Radius.....	60.95	12.98
32 16 13 23-0008	LF	7" x 20" Precast Concrete Curb.....	54.01	11.29
32 16 13 23-0009	LF	7" x 20" Precast Concrete Curb, Radius.....	64.93	12.98



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Bases, Ballasts, and Paving			32 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 33			Asphalt Curbs (32 16 13)		
32 16 13 33-0001			Asphalt Curbs (32 16 13 33)		
32 16 13 33-0002	LF		6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain	14.25	5.98
32 16 13 33-0003	LF		8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain	16.02	6.65
32 16 13 33-0004	LF		8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain	17.66	7.32
32 16 13 43			Stone Curbs (32 16 13)		
32 16 13 43-0001			Remove And Reset Stone And Precast Curbing (32 16 13 43)		
			Note: Includes storage and cleaning.		
32 16 13 43-0002	LF		Removal And Resetting Of Stone Or Precast Curbing	42.26	
			Note: Includes storage and cleaning.		
32 16 23			Sidewalks (32 16)		
32 16 23 00-0001			Cast In Place Concrete Sidewalk Assemblies (32 16 23)		
			Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, sealer, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0079 for buggies, 03 31 13 00-0086 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0002	SF		4" Cast In Place Concrete Sidewalk	10.19	
			For Up To 100, Add	4.41	
			For >100 To 500, Add	1.25	
			For 3,500 PSI Concrete, Add	0.13	
			For 4,000 PSI Concrete, Add	0.22	
			For 4,500 PSI Concrete, Add	0.26	
			For Welded Wire Reinforcement, Add	0.91	
			For >2,000 To 5,000, Deduct	-0.56	
			For >5,000 To 10,000, Deduct	-1.25	
			For >10,000 To 20,000, Deduct	-1.69	
			For >20,000, Deduct	-2.14	
32 16 23 00-0003	SF		5" Cast In Place Concrete Sidewalk	11.07	
			For Up To 100, Add	4.70	
			For >100 To 500, Add	1.33	
			For 3,500 PSI Concrete, Add	0.15	
			For 4,000 PSI Concrete, Add	0.27	
			For 4,500 PSI Concrete, Add	0.31	
			For Welded Wire Reinforcement, Add	0.91	
			For >2,000 To 5,000, Deduct	-0.58	
			For >5,000 To 10,000, Deduct	-1.33	
			For >10,000 To 20,000, Deduct	-1.80	
			For >20,000, Deduct	-2.27	
32 16 23 00-0004	SF		6" Cast In Place Concrete Sidewalk	11.96	
			For Up To 100, Add	4.99	
			For >100 To 500, Add	1.40	
			For 3,500 PSI Concrete, Add	0.18	
			For 4,000 PSI Concrete, Add	0.32	
			For 4,500 PSI Concrete, Add	0.37	
			For Welded Wire Reinforcement, Add	0.91	
			For >2,000 To 5,000, Deduct	-0.60	
			For >5,000 To 10,000, Deduct	-1.40	
			For >10,000 To 20,000, Deduct	-1.90	
			For >20,000, Deduct	-2.39	
32 16 23 00-0005	SF		7" Cast In Place Concrete Sidewalk	13.90	
			For Up To 100, Add	5.74	
			For >100 To 500, Add	1.60	
			For 3,500 PSI Concrete, Add	0.22	
			For 4,000 PSI Concrete, Add	0.39	
			For 4,500 PSI Concrete, Add	0.45	
			For Welded Wire Reinforcement, Add	0.91	
			For >2,000 To 5,000, Deduct	-0.68	
			For >5,000 To 10,000, Deduct	-1.60	
			For >10,000 To 20,000, Deduct	-2.18	
			For >20,000, Deduct	-2.75	
32 16 23 00-0006	SF		8" Cast In Place Concrete Sidewalk	14.67	
			For Up To 100, Add	5.97	
			For >100 To 500, Add	1.66	
			For 3,500 PSI Concrete, Add	0.25	
			For 4,000 PSI Concrete, Add	0.44	
			For 4,500 PSI Concrete, Add	0.51	
			For Welded Wire Reinforcement, Add	0.91	
			For >2,000 To 5,000, Deduct	-0.69	
			For >5,000 To 10,000, Deduct	-1.66	
			For >10,000 To 20,000, Deduct	-2.25	
			For >20,000, Deduct	-2.85	
32 16 23 00-0007	SF		For Exposed Aggregate Finish In Sidewalk	2.89	
32 16 23 00-0008	EA		Finish Concrete Handicap Drop Section In Sidewalk	173.04	
			Note: Excludes patterned (tactile) finish.		
32 16 23 00-0009	LF		For Hand Trowel Finish At Sidewalk Edges (Picture Frame)	2.89	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0010 Bituminous Sidewalk Assemblies (32 16 23)		
Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0011 SY 1" Bituminous Sidewalk	9.92	
For Up To 100, Add	3.80	
For >100 To 500, Add	1.03	
For >1,000 To 5,000, Deduct	-0.53	
For >5,000, Deduct	-1.03	
32 16 23 00-0012 SY 1-1/2" Bituminous Sidewalk	12.42	
For Up To 100, Add	4.69	
For >100 To 500, Add	1.26	
For >1,000 To 5,000, Deduct	-0.64	
For >5,000, Deduct	-1.26	
32 16 23 00-0013 SY 2" Bituminous Sidewalk	17.11	
For Up To 100, Add	6.25	
For >100 To 500, Add	1.64	
For >1,000 To 5,000, Deduct	-0.79	
For >5,000, Deduct	-1.64	
32 16 23 00-0014 SY 2-1/2" Bituminous Sidewalk	21.38	
For Up To 100, Add	7.79	
For >100 To 500, Add	2.05	
For >1,000 To 5,000, Deduct	-0.98	
For >5,000, Deduct	-2.05	
32 16 23 00-0015 SY 3" Bituminous Sidewalk	24.52	
For Up To 100, Add	8.78	
For >100 To 500, Add	2.28	
For >1,000 To 5,000, Deduct	-1.06	
For >5,000, Deduct	-2.28	
32 16 23 00-0016 SY 3-1/2" Bituminous Sidewalk	28.25	
For Up To 100, Add	9.97	
For >100 To 500, Add	2.58	
For >1,000 To 5,000, Deduct	-1.16	
For >5,000, Deduct	-2.58	
32 16 43 Asphalt Dike (32 16)		
32 16 43 00-0001 Asphalt Dike (32 16 43)		
32 16 43 00-0002 LF Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	7.37	
32 16 43 00-0003 LF Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height	10.05	
32 16 43 00-0004 LF Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height	10.05	
32 16 43 00-0005 LF Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height	14.31	
32 16 43 00-0006 LF Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height	16.94	
32 16 43 00-0007 LF Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height	3.99	
32 16 43 00-0008 LF Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	10.40	
32 16 43 00-0009 LF Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	16.08	
32 16 43 00-0010 LF CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	7.37	
32 16 43 00-0011 LF CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height	3.99	
32 16 43 00-0012 LF CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	16.08	
32 16 43 00-0013 LF CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	10.40	
32 16 43 00-0014 LF CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height	5.83	
32 17 Paving Specialties (32 10)		
32 17 13 Parking Bumpers (32 17)		
Note: Includes dowels set.		
32 17 13 16 Plastic Parking Bumpers (32 17 13)		
32 17 13 16-0001 EA 4" x 6" x 4' Recycled Plastic Wheel Stop	220.92	7.99
32 17 13 16-0002 EA 4" x 6" x 6' Recycled Plastic Wheel Stop	250.55	7.99
32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)		
32 17 13 19-0001 EA 6" x 8" x 4' Precast Concrete Wheel Stop With Dowels	77.99	24.07
32 17 13 19-0002 EA 6" x 6" x 6' Precast Concrete Wheel Stop With Dowels	89.07	24.07
32 17 13 19-0003 EA 6" x 8" x 6' Precast Concrete Wheel Stop With Dowels	92.72	24.07
32 17 13 19-0004 EA 6" x 10" x 6' Precast Concrete Wheel Stop With Dowels	97.12	24.07
32 17 13 19-0005 EA 4-7/8" x 7-5/8" x 6' Precast Concrete Wheel Stop With Dowels	90.58	24.07
32 17 13 19-0006 EA 8" x 13" x 6' Precast Concrete Wheel Stop With Dowels	114.84	24.07
32 17 13 19-0007 EA 8" x 12" x 8' Precast Concrete Wheel Stop With Dowels	125.47	25.99
32 17 13 19-0008 EA Removal And Relocation Of Precast Concrete Wheel Stop	38.51	
32 17 13 19-0009 EA Removal And Relocation Of Plastic Or Wood Wheel Stop	25.03	
32 17 13 19-0010 EA 7.625" x 7.625" x 6' Precast Concrete Wheel Stop	130.62	24.07
32 17 13 19-0011 EA 7.625" x 7.625" x 8' Precast Concrete Wheel Stop	194.19	24.07
32 17 13 23 Rubber Parking Bumpers (32 17 13)		
32 17 13 23-0001 EA 3' Recycled Rubber Wheel Stop	33.92	7.99
32 17 13 23-0002 EA 4' Recycled Rubber Wheel Stop	39.48	7.99



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop	41.70	7.99
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop	45.04	7.99
32 17 13 26 Wood Parking Bumpers (32 17 13)				
32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated	10.93	1.92
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated	14.15	1.92
32 17 16 Manufactured Traffic-Calming Devices (32 17)				
32 17 16 00-0001 Modular Rubber Speed Tables (32 17 16)				
Note: 3" high flat-topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.				
32 17 16 00-0002	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table	73.90	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0003	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table	64.54	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0004	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table	60.55	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0005	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table	70.69	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0006	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table	62.14	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0007	SF	>24' To 30' Road Width x 21' Run Modular Rubber Speed Table	58.62	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0008	SF	>30' To 40' Road Width x 7' Run Modular Rubber Speed Table	67.51	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0009	SF	>30' To 40' Road Width x 14' Run Modular Rubber Speed Table	60.26	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0010	SF	>30' To 40' Road Width x 21' Run Modular Rubber Speed Table	56.99	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0011 Asphalt Speed Table (32 17 16)				
Note: Excludes pavement markings or reflectors.				
32 17 16 00-0012	LF	Up to 36" Run, Asphalt Speed Table With 3" Center Crown	40.94	
Note: Tapered on edges to roadway.				
32 17 16 00-0013	LF	>36" To 48" Run, Asphalt Speed Table With 3" Center Crown	48.23	
Note: Tapered on edges to roadway.				
32 17 16 00-0014	LF	Up to 36" Run, Asphalt Speed Table With 4" Center Crown	51.41	
Note: Tapered on edges to roadway.				
32 17 16 00-0015	LF	>36" To 48" Run, Asphalt Speed Table With 4" Center Crown	60.61	
Note: Tapered on edges to roadway.				
32 17 16 00-0016	LF	Up to 36" Run, Asphalt Speed Table With 6" Center Crown	63.16	
Note: Tapered on edges to roadway.				
32 17 16 00-0017	LF	>36" To 48" Run, Asphalt Speed Table With 6" Center Crown	70.46	
Note: Tapered on edges to roadway.				
32 17 16 00-0018 Speed Bumps (32 17 16)				
Note: Excludes pavement markings or reflectors.				
32 17 16 00-0019	LF	2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump	37.40	2.12
32 17 16 00-0020	LF	2-1/4" High x 12" Wide, Recycled Rubber Speed Bump	33.40	1.41
32 17 16 00-0021	LF	2-5/8" High x 12" Wide, Recycled Plastic Speed Bump	158.11	1.41
32 17 23 Pavement Markings (32 17)				
32 17 23 13 Painted Pavement Markings (32 17 23)				
32 17 23 13-0001 Minimum Charge For Pavement Striping (32 17 23 13)				
32 17 23 13-0002	EA	Minimum Charge For Pavement Striping	467.01	
32 17 23 13-0003 Painted Pavement Striping, Letters, Symbols And Markers for Roads (32 17 23 13)				
Note: Includes primers, adhesive and reflective glass beads. For broken line quantities use total lane length. Per Coat.				
32 17 23 13-0004 Painted Epoxy Reflective Pavement Marking (32 17 23 13-0003)				
Note: 15 mil thickness.				
32 17 23 13-0005	LF	Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping	0.63	
For 20 Mil Thickness, Add			0.13	
For Up To 5,000 LF, Add			0.13	
For >25,000 LF, Deduct			-0.09	
For Broken Line (25% Solid), Deduct			-0.27	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0006 LF Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.88	
For 20 Mil Thickness, Add	0.20	
For Up To 5,000 LF, Add	0.18	
For >25,000 LF, Deduct	-0.13	
For Broken Line (25% Solid), Deduct	-0.41	
32 17 23 13-0007 LF Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.06	
For 20 Mil Thickness, Add	0.23	
For Up To 5,000 LF, Add	0.21	
For >25,000 LF, Deduct	-0.16	
For Broken Line (25% Solid), Deduct	-0.48	
32 17 23 13-0008 LF Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.59	
For 20 Mil Thickness, Add	0.38	
For Up To 5,000 LF, Add	0.32	
For >25,000 LF, Deduct	-0.24	
For Broken Line (25% Solid), Deduct	-0.79	
32 17 23 13-0009 LF Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.97	
For 20 Mil Thickness, Add	0.25	
For Up To 5,000 LF, Add	0.19	
For >25,000 LF, Deduct	-0.15	
For Broken Line On One Side, Deduct	-0.26	
For Double Broken Line, Deduct	-0.53	
32 17 23 13-0010 LF Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	1.40	
For 20 Mil Thickness, Add	0.37	
For Up To 5,000 LF, Add	0.28	
For >25,000 LF, Deduct	-0.21	
For Broken Line On One Side, Deduct	-0.40	
For Double Broken Line, Deduct	-0.80	
32 17 23 13-0011 SF Solid Area, Epoxy Reflective Pavement Marking.....	8.99	
Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
For 20 Mil Thickness, Add	1.01	
32 17 23 13-0012 EA 6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	5.59	
For 20 Mil Thickness, Add	0.51	
For <10, Add	0.72	
For >50 To 100, Deduct	-0.36	
For >100 To 200, Deduct	-0.48	
For >200, Deduct	-0.96	
32 17 23 13-0013 EA 12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	10.11	
For 20 Mil Thickness, Add	1.32	
For <10, Add	1.08	
For >50 To 100, Deduct	-0.54	
For >100 To 200, Deduct	-0.72	
For >200, Deduct	-1.45	
32 17 23 13-0014 EA 24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	17.06	
For 20 Mil Thickness, Add	2.28	
For <10, Add	1.80	
For >50 To 100, Deduct	-0.90	
For >100 To 200, Deduct	-1.20	
For >200, Deduct	-2.40	
32 17 23 13-0015 EA 36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	32.90	
For 20 Mil Thickness, Add	4.16	
For <10, Add	3.61	
For >50 To 100, Deduct	-1.80	
For >100 To 200, Deduct	-2.40	
For >200, Deduct	-4.81	
32 17 23 13-0016 EA 48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	38.47	
For 20 Mil Thickness, Add	5.18	
For <10, Add	4.04	
For >50 To 100, Deduct	-2.02	
For >100 To 200, Deduct	-2.70	
For >200, Deduct	-5.39	
32 17 23 13-0017 EA 72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	69.00	
For 20 Mil Thickness, Add	9.41	
For <10, Add	7.20	
For >50 To 100, Deduct	-3.60	
For >100 To 200, Deduct	-4.80	
For >200, Deduct	-9.59	
32 17 23 13-0018 EA 96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	92.11	
For 20 Mil Thickness, Add	12.45	
For <10, Add	9.66	
For >50 To 100, Deduct	-4.83	
For >100 To 200, Deduct	-6.44	
For >200, Deduct	-12.89	
32 17 23 13-0019 EA 120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	141.62	
For 20 Mil Thickness, Add	24.58	
For <10, Add	11.98	
For >50 To 100, Deduct	-5.99	
For >100 To 200, Deduct	-7.98	
For >200, Deduct	-15.97	
32 17 23 13-0020 SF Letter/Number, Epoxy Reflective Pavement Marking.....	9.22	
For 20 Mil Thickness, Add	1.02	
32 17 23 13-0021 SF Symbols, Epoxy Reflective Pavement Marking.....	11.67	
Note: Handicap, railroad, diamond, arrows, etc.		

32 17 23 13-0022 Painted Alkyd/Solvent Based/Latex Reflective Pavement Marking (32 17 23 13-0003)
Note: 15 mil thickness.



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0023	LF		Single 4" Wide Solid Line, Painted Reflective Pavement Striping.....	0.40	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
			For Broken Line (25% Solid), Deduct	-0.10	
32 17 23 13-0024	LF		Single 6" Wide Solid Line, Painted Reflective Pavement Striping.....	0.53	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line (25% Solid), Deduct	-0.14	
32 17 23 13-0025	LF		Single 8" Wide Solid Line, Painted Reflective Pavement Striping.....	0.65	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.13	
			For >25,000 LF, Deduct	-0.10	
			For Broken Line (25% Solid), Deduct	-0.17	
32 17 23 13-0026	LF		Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....	0.89	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.18	
			For >25,000 LF, Deduct	-0.13	
			For Broken Line (25% Solid), Deduct	-0.26	
32 17 23 13-0027	LF		Double 4" Wide Solid Lines, Painted Reflective Pavement Striping	0.60	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
			For Broken Line On One Side, Deduct	-0.09	
			For Double Broken Line, Deduct	-0.18	
32 17 23 13-0028	LF		Double 6" Wide Solid Lines, Painted Reflective Pavement Striping	0.90	
			For Up To 5,000 LF, Add	0.18	
			For >25,000 LF, Deduct	-0.14	
			For Broken Line On One Side, Deduct	-0.14	
			For Double Broken Line, Deduct	-0.27	
32 17 23 13-0029	SF		Solid Area, Painted Reflective Pavement Striping	7.35	
			Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0030	EA		6" (15 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	5.31	
			Note: Includes solvent based and latex paints.		
			For <10, Add	0.72	
			For >50 To 100, Deduct	-0.36	
			For >100 To 200, Deduct	-0.48	
			For >200, Deduct	-0.96	
32 17 23 13-0031	EA		12" (31 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	9.10	
			Note: Includes solvent based and latex paints.		
			For <10, Add	1.08	
			For >50 To 100, Deduct	-0.54	
			For >100 To 200, Deduct	-0.72	
			For >200, Deduct	-1.45	
32 17 23 13-0032	EA		24" (61 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	15.30	
			Note: Includes solvent based and latex paints.		
			For <10, Add	1.80	
			For >50 To 100, Deduct	-0.90	
			For >100 To 200, Deduct	-1.20	
			For >200, Deduct	-2.40	
32 17 23 13-0033	EA		36" (91 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	29.80	
			Note: Includes solvent based and latex paints.		
			For <10, Add	3.61	
			For >50 To 100, Deduct	-1.80	
			For >100 To 200, Deduct	-2.40	
			For >200, Deduct	-4.61	
32 17 23 13-0034	EA		48" (122 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	34.45	
			Note: Includes solvent based and latex paints.		
			For <10, Add	4.04	
			For >50 To 100, Deduct	-2.02	
			For >100 To 200, Deduct	-2.70	
			For >200, Deduct	-5.39	
32 17 23 13-0035	EA		72" (183 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	61.65	
			Note: Includes solvent based and latex paints.		
			For <10, Add	7.20	
			For >50 To 100, Deduct	-3.60	
			For >100 To 200, Deduct	-4.80	
			For >200, Deduct	-9.59	
32 17 23 13-0036	EA		96" (244 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	82.42	
			Note: Includes solvent based and latex paints.		
			For <10, Add	9.66	
			For >50 To 100, Deduct	-4.83	
			For >100 To 200, Deduct	-6.44	
			For >200, Deduct	-12.89	
32 17 23 13-0037	EA		120" (305 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	120.00	
			Note: Includes solvent based and latex paints.		
			For <10, Add	11.98	
			For >50 To 100, Deduct	-5.99	
			For >100 To 200, Deduct	-7.98	
			For >200, Deduct	-15.97	
32 17 23 13-0038	SF		Letter/Number, Painted Reflective Pavement Marking	8.53	
			Note: Includes solvent based and latex paints.		
32 17 23 13-0039	SF		Symbols, Painted Reflective Pavement Marking	10.17	
			Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 17 23 13-0040	Painted Thermoplastic Reflective Pavement Marking (32 17 23 13-0003) Note: 40 mil thickness.			
32 17 23 13-0041	LF Single 4" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.00		
	For Up To 5,000 LF, Add	0.20		
	For >25,000 LF, Deduct	-0.15		
	For 30 mils Thick, Deduct	-0.18		
	For 45 mils Thick, Add	0.09		
	For Broken Line (25% Solid), Deduct	-0.55		
	For Enhanced Wet-Night Visibility, Add	0.06		
32 17 23 13-0042	LF Single 6" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.39		
	Note: Includes yellow or white.			
	For Up To 5,000 LF, Add	0.28		
	For >25,000 LF, Deduct	-0.21		
	For 30 mils Thick, Deduct	-0.27		
	For 45 mils Thick, Add	0.13		
	For Broken Line (25% Solid), Deduct	-0.80		
	For Enhanced Wet-Night Visibility, Add	0.09		
32 17 23 13-0043	LF Single 8" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.88		
	Note: Includes yellow or white.			
	For Up To 5,000 LF, Add	0.38		
	For >25,000 LF, Deduct	-0.28		
	For 30 mils Thick, Deduct	-0.37		
	For 45 mils Thick, Add	0.18		
	For Broken Line (25% Solid), Deduct	-1.10		
	For Enhanced Wet-Night Visibility, Add	0.12		
32 17 23 13-0044	LF Single 12" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	2.72		
	Note: Includes yellow or white.			
	For Up To 5,000 LF, Add	0.54		
	For >25,000 LF, Deduct	-0.41		
	For 30 mils Thick, Deduct	-0.55		
	For 45 mils Thick, Add	0.27		
	For Broken Line (25% Solid), Deduct	-1.64		
	For Enhanced Wet-Night Visibility, Add	0.18		
32 17 23 13-0045	LF Double 4" Wide Solid Lines, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.82		
	Note: Includes yellow or white.			
	For Up To 5,000 LF, Add	0.36		
	For >25,000 LF, Deduct	-0.27		
	For 30 mils Thick, Deduct	-0.37		
	For 45 mils Thick, Add	0.18		
	For Broken Line On One Side, Deduct	-0.55		
	For Double Broken Line, Deduct	-1.10		
	For Enhanced Wet-Night Visibility, Add	0.12		
32 17 23 13-0046	LF Double 6" Wide Solid Lines, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	2.72		
	Note: Includes yellow or white.			
	For Up To 5,000 LF, Add	0.54		
	For >25,000 LF, Deduct	-0.41		
	For 30 mils Thick, Deduct	-0.55		
	For 45 mils Thick, Add	0.27		
	For Broken Line On One Side, Deduct	-0.82		
	For Double Broken Line, Deduct	-1.64		
	For Enhanced Wet-Night Visibility, Add	0.18		
32 17 23 13-0047	SF Solid Area, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	9.18		
	Note: Includes yellow or white.			
	For 30 mils Thick, Deduct	-0.55		
	For 45 mils Thick, Add	0.27		
	For Enhanced Wet-Night Visibility, Add	0.18		
32 17 23 13-0048	EA 6" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	6.04		
	For Up To 10, Add	0.72		
	For >50 To 100, Deduct	-0.36		
	For >100 To 200, Deduct	-0.48		
	For >200, Deduct	-0.96		
	For 30 mils Thick, Deduct	-0.31		
	For 45 mils Thick, Add	0.16		
	For Enhanced Wet-Night Visibility, Add	0.10		
32 17 23 13-0049	EA 12" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	11.74		
	For Up To 10, Add	1.08		
	For >50 To 100, Deduct	-0.54		
	For >100 To 200, Deduct	-0.72		
	For >200, Deduct	-1.45		
	For 30 mils Thick, Deduct	-1.13		
	For 45 mils Thick, Add	0.56		
	For Enhanced Wet-Night Visibility, Add	0.37		
32 17 23 13-0050	EA 24" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	19.91		
	For Up To 10, Add	1.80		
	For >50 To 100, Deduct	-0.90		
	For >100 To 200, Deduct	-1.20		
	For >200, Deduct	-2.40		
	For 30 mils Thick, Deduct	-1.97		
	For 45 mils Thick, Add	0.99		
	For Enhanced Wet-Night Visibility, Add	0.65		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0051	EA		36" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	37.91	
			For Up To 10, Add	3.61	
			For >50 To 100, Deduct	-1.80	
			For >100 To 200, Deduct	-2.40	
			For >200, Deduct	-4.81	
			For 30 mils Thick, Deduct	-3.47	
			For 45 mils Thick, Add	1.73	
			For Enhanced Wet-Night Visibility, Add	1.14	
32 17 23 13-0052	EA		48" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	44.99	
			For Up To 10, Add	4.04	
			For >50 To 100, Deduct	-2.02	
			For >100 To 200, Deduct	-2.70	
			For >200, Deduct	-5.39	
			For 30 mils Thick, Deduct	-4.51	
			For 45 mils Thick, Add	2.25	
			For Enhanced Wet-Night Visibility, Add	1.49	
32 17 23 13-0053	EA		72" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	80.90	
			For Up To 10, Add	7.20	
			For >50 To 100, Deduct	-3.60	
			For >100 To 200, Deduct	-4.80	
			For >200, Deduct	-9.59	
			For 30 mils Thick, Deduct	-8.23	
			For 45 mils Thick, Add	4.12	
			For Enhanced Wet-Night Visibility, Add	2.72	
32 17 23 13-0054	EA		96" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	107.76	
			For Up To 10, Add	9.66	
			For >50 To 100, Deduct	-4.83	
			For >100 To 200, Deduct	-6.44	
			For >200, Deduct	-12.89	
			For 30 mils Thick, Deduct	-10.83	
			For 45 mils Thick, Add	5.42	
			For Enhanced Wet-Night Visibility, Add	3.57	
32 17 23 13-0055	EA		120" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	176.56	
			For Up To 10, Add	11.98	
			For >50 To 100, Deduct	-5.99	
			For >100 To 200, Deduct	-7.98	
			For >200, Deduct	-15.97	
			For 30 mils Thick, Deduct	-24.18	
			For 45 mils Thick, Add	12.09	
			For Enhanced Wet-Night Visibility, Add	7.98	
32 17 23 13-0056	SF		Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking.....	10.35	
			For 30 mils Thick, Deduct	-0.78	
			For 45 mils Thick, Add	0.39	
			For Enhanced Wet-Night Visibility, Add	0.26	
32 17 23 13-0057	SF		Symbols, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	12.80	
			Note: Handicap, railroad, diamond, arrows, etc.		
			For 30 mils Thick, Deduct	-0.78	
			For 45 mils Thick, Add	0.39	
			For Enhanced Wet-Night Visibility, Add	0.26	
32 17 23 13-0058			Painted Thermoplastic Reflective Pavement Marking (CALTRANS) (32 17 23 13-0003)		
			Note: 40 mil thickness.		
32 17 23 13-0059	LF		CALTRANS Detail 1 Centerline, Painted Thermoplastic Reflective Pavement Striping.....	0.42	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0060	LF		CALTRANS Detail 2 Centerline, Painted Thermoplastic Reflective Pavement Striping.....	0.61	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
32 17 23 13-0061	LF		CALTRANS Detail 5 Centerline, Painted Thermoplastic Reflective Pavement Striping.....	0.40	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0062	LF		CALTRANS Detail 6 Centerline, Painted Thermoplastic Reflective Pavement Striping.....	0.59	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
32 17 23 13-0063	LF		CALTRANS Detail 8 Lanelines, Painted Thermoplastic Reflective Pavement Striping.....	0.42	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0064	LF		CALTRANS Detail 9 Lanelines, Painted Thermoplastic Reflective Pavement Striping.....	0.61	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
32 17 23 13-0065	LF		CALTRANS Detail 11 Lanelines, Painted Thermoplastic Reflective Pavement Striping.....	0.40	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0066	LF		CALTRANS Detail 12 Lanelines, Painted Thermoplastic Reflective Pavement Striping.....	0.59	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
32 17 23 13-0067	LF		CALTRANS Detail 14A Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.59	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
32 17 23 13-0068	LF		CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.94	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.14	
			For Broken Line On One Side, Deduct	-0.25	
			For Double Broken Line, Deduct	-0.50	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0069	LF		CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	1.71	
			For Up To 5,000 LF, Add	0.34	
			For >25,000 LF, Deduct	-0.26	
32 17 23 13-0070	LF		CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	0.92	
			For Up To 5,000 LF, Add	0.18	
			For >25,000 LF, Deduct	-0.14	
			For Broken Line On One Side, Deduct	-0.24	
			For Double Broken Line, Deduct	-0.49	
32 17 23 13-0071	LF		CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	1.49	
			For Up To 5,000 LF, Add	0.30	
			For >25,000 LF, Deduct	-0.22	
32 17 23 13-0072	LF		CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	1.31	
			For Up To 5,000 LF, Add	0.26	
			For >25,000 LF, Deduct	-0.20	
			For Broken Line On One Side, Deduct	-0.39	
			For Double Broken Line, Deduct	-0.78	
32 17 23 13-0073	LF		CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Thermoplastic Reflective Pavement Striping	2.08	
			For Up To 5,000 LF, Add	0.42	
			For >25,000 LF, Deduct	-0.31	
32 17 23 13-0074	LF		CALTRANS Detail 24 Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	0.79	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
32 17 23 13-0075	LF		CALTRANS Detail 25 Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	0.98	
			For Up To 5,000 LF, Add	0.20	
			For >25,000 LF, Deduct	-0.15	
32 17 23 13-0076	LF		CALTRANS Detail 25A Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	1.17	
			For Up To 5,000 LF, Add	0.23	
			For >25,000 LF, Deduct	-0.18	
32 17 23 13-0077	LF		CALTRANS Detail 27 Left Edgelines, Painted Thermoplastic Reflective Pavement Striping	1.50	
			For Up To 5,000 LF, Add	0.30	
			For >25,000 LF, Deduct	-0.23	
32 17 23 13-0078	LF		CALTRANS Detail 27B Right Edgelines, Painted Thermoplastic Reflective Pavement Striping	0.79	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
32 17 23 13-0079	LF		CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Thermoplastic Reflective Pavement Striping	0.37	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0080	LF		CALTRANS Detail 28 Median Islands, Painted Thermoplastic Reflective Pavement Striping	0.89	
			For Up To 5,000 LF, Add	0.18	
			For >25,000 LF, Deduct	-0.13	
			For Broken Line On One Side, Deduct	-0.13	
			For Double Broken Line, Deduct	-0.26	
32 17 23 13-0081	LF		CALTRANS Detail 29 Median Islands, Painted Thermoplastic Reflective Pavement Striping	3.39	
			For Up To 5,000 LF, Add	0.68	
			For >25,000 LF, Deduct	-0.51	
32 17 23 13-0082	LF		CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Thermoplastic Reflective Pavement Striping	1.84	
			For Up To 5,000 LF, Add	0.37	
			For >25,000 LF, Deduct	-0.28	
			For Broken Line On One Side, Deduct	-0.49	
			For Double Broken Line, Deduct	-0.98	
32 17 23 13-0083	LF		CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Thermoplastic Reflective Pavement Striping	2.80	
			For Up To 5,000 LF, Add	0.56	
			For >25,000 LF, Deduct	-0.42	
32 17 23 13-0084	LF		CALTRANS Detail 34 Intersection Treatments, Painted Thermoplastic Reflective Pavement Striping	1.49	
			For Up To 5,000 LF, Add	0.30	
			For >25,000 LF, Deduct	-0.22	
32 17 23 13-0085	LF		CALTRANS Detail 35 Intersection Treatments, Painted Thermoplastic Reflective Pavement Striping	1.74	
			For Up To 5,000 LF, Add	0.35	
			For >25,000 LF, Deduct	-0.26	
32 17 23 13-0086	LF		CALTRANS Detail 35A Intersection Treatments, Painted Thermoplastic Reflective Pavement Striping	0.94	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.14	
32 17 23 13-0087	LF		CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Thermoplastic Reflective Pavement Striping	3.61	
			For Up To 5,000 LF, Add	0.72	
			For >25,000 LF, Deduct	-0.54	
32 17 23 13-0088	LF		CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Thermoplastic Reflective Pavement Striping	2.08	
			For Up To 5,000 LF, Add	0.42	
			For >25,000 LF, Deduct	-0.31	
32 17 23 13-0089	LF		CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Thermoplastic Reflective Pavement Striping	2.59	
			For Up To 5,000 LF, Add	0.52	
			For >25,000 LF, Deduct	-0.39	
32 17 23 13-0090	LF		CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Thermoplastic Reflective Pavement Striping	1.39	
			For Up To 5,000 LF, Add	0.28	
			For >25,000 LF, Deduct	-0.21	
32 17 23 13-0091	LF		CALTRANS Detail 37B Lane Drop At Intersections, Painted Thermoplastic Reflective Pavement Striping	1.39	
			For Up To 5,000 LF, Add	0.28	
			For >25,000 LF, Deduct	-0.21	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0092	LF		CALTRANS Detail 38 Channelizing Line, Painted Thermoplastic Reflective Pavement Striping.....	1.96	
			For Up To 5,000 LF, Add	0.39	
			For >25,000 LF, Deduct	-0.29	
32 17 23 13-0093	LF		CALTRANS Detail 38A Channelizing Line, Painted Thermoplastic Reflective Pavement Striping	1.59	
			For Up To 5,000 LF, Add	0.32	
			For >25,000 LF, Deduct	-0.24	
32 17 23 13-0094	LF		CALTRANS Detail 38B Channelizing Line, Painted Thermoplastic Reflective Pavement Striping	2.36	
			For Up To 5,000 LF, Add	0.47	
			For >25,000 LF, Deduct	-0.35	
32 17 23 13-0095	LF		CALTRANS Detail 39 Bike Lane Line, Painted Thermoplastic Reflective Pavement Striping	1.09	
			For Up To 5,000 LF, Add	0.22	
			For >25,000 LF, Deduct	-0.16	
32 17 23 13-0096	LF		CALTRANS Detail 39A Intersection Line Bike Lane, Painted Thermoplastic Reflective Pavement Striping.....	0.59	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
32 17 23 13-0097	LF		CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Thermoplastic Reflective Pavement Striping	0.34	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
32 17 23 13-0098	LF		CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Thermoplastic Reflective Pavement Striping	0.34	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
32 17 23 13-0099	EA		CALTRANS 10' Arrow, Type I, Painted Thermoplastic Reflective Pavement Marking.....	151.74	
			For <10, Add	17.51	
			For >50 To 100, Deduct	-8.75	
			For >100 To 200, Deduct	-11.67	
			For >200, Deduct	-23.34	
32 17 23 13-0100	EA		CALTRANS 18' Arrow, Type I, Painted Thermoplastic Reflective Pavement Marking.....	266.80	
			For <10, Add	30.64	
			For >50 To 100, Deduct	-15.32	
			For >100 To 200, Deduct	-20.43	
			For >200, Deduct	-40.85	
32 17 23 13-0101	EA		CALTRANS 24' Arrow, Type I, Painted Thermoplastic Reflective Pavement Marking.....	334.31	
			For <10, Add	38.52	
			For >50 To 100, Deduct	-19.26	
			For >100 To 200, Deduct	-25.68	
			For >200, Deduct	-51.35	
32 17 23 13-0102	EA		CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Thermoplastic Reflective Pavement Marking.....	486.06	
			For <10, Add	56.03	
			For >50 To 100, Deduct	-28.01	
			For >100 To 200, Deduct	-37.35	
			For >200, Deduct	-74.70	
32 17 23 13-0103	EA		CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Thermoplastic Reflective Pavement Marking.....	588.70	
			For <10, Add	73.53	
			For >50 To 100, Deduct	-36.77	
			For >100 To 200, Deduct	-49.02	
			For >200, Deduct	-98.04	
32 17 23 13-0104	EA		CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Thermoplastic Reflective Pavement Marking	449.37	
			For <10, Add	51.65	
			For >50 To 100, Deduct	-25.82	
			For >100 To 200, Deduct	-34.43	
			For >200, Deduct	-68.86	
32 17 23 13-0105	EA		CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Thermoplastic Reflective Pavement Marking	783.70	
			For <10, Add	90.17	
			For >50 To 100, Deduct	-45.08	
			For >100 To 200, Deduct	-60.11	
			For >200, Deduct	-120.22	
32 17 23 13-0106	EA		CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Thermoplastic Reflective Pavement Marking.....	160.07	
			For <10, Add	18.38	
			For >50 To 100, Deduct	-9.19	
			For >100 To 200, Deduct	-12.26	
			For >200, Deduct	-24.51	
32 17 23 13-0107	EA		CALTRANS 24' Arrow, Type V, Painted Thermoplastic Reflective Pavement Marking	351.00	
			For <10, Add	40.27	
			For >50 To 100, Deduct	-20.13	
			For >100 To 200, Deduct	-26.85	
			For >200, Deduct	-53.69	
32 17 23 13-0108	EA		CALTRANS 18' Arrow, Type VI, Painted Thermoplastic Reflective Pavement Marking	449.37	
			For <10, Add	51.65	
			For >50 To 100, Deduct	-25.82	
			For >100 To 200, Deduct	-34.43	
			For >200, Deduct	-68.86	
32 17 23 13-0109	EA		CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Thermoplastic Reflective Pavement Marking.....	290.75	
			For <10, Add	33.27	
			For >50 To 100, Deduct	-16.63	
			For >100 To 200, Deduct	-22.18	
			For >200, Deduct	-44.35	

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32 17 23 13-0110	EA	CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Thermoplastic Reflective Pavement Marking.....	381.84	
		For <10, Add	43.77	
		For >50 To 100, Deduct	-21.88	
		For >100 To 200, Deduct	-29.18	
		For >200, Deduct	-58.36	
32 17 23 13-0111	EA	CALTRANS 5' Arrow, Bike Lane, Painted Thermoplastic Reflective Pavement Marking.....	75.87	
		For <10, Add	8.75	
		For >50 To 100, Deduct	-4.38	
		For >100 To 200, Deduct	-5.84	
		For >200, Deduct	-11.67	
32 17 23 13-0112	EA	CALTRANS Railroad Crossing Symbol, Painted Thermoplastic Reflective Pavement Marking	729.51	
		Note: Excludes variable width transverse lines.		
		For <10, Add	83.16	
		For >50 To 100, Deduct	-41.58	
		For >100 To 200, Deduct	-55.44	
		For >200, Deduct	-110.88	
32 17 23 13-0113	SF	CALTRANS Solid Area, Painted Thermoplastic Reflective Pavement Marking	9.62	
32 17 23 13-0114	EA	CALTRANS Bike Lane Symbol Without Person, Painted Thermoplastic Reflective Pavement Marking	71.71	
		Note: Approximate overall dimensions: 4' width x 8' height.		
		For <10, Add	6.30	
		For >50 To 100, Deduct	-3.15	
		For >100 To 200, Deduct	-4.20	
		For >200, Deduct	-8.40	
32 17 23 13-0115	EA	CALTRANS Bike Lane Symbol With Person, Painted Thermoplastic Reflective Pavement Marking	75.44	
		Note: Approximate overall dimensions: 4' width x 8' height.		
		For <10, Add	6.65	
		For >50 To 100, Deduct	-3.33	
		For >100 To 200, Deduct	-4.44	
		For >200, Deduct	-8.87	
32 17 23 13-0116	EA	CALTRANS Diamond Symbol, Painted Thermoplastic Reflective Pavement Marking	120.89	
		For <10, Add	14.01	
		For >50 To 100, Deduct	-7.00	
		For >100 To 200, Deduct	-9.34	
		For >200, Deduct	-18.67	
32 17 23 13-0117	EA	CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Thermoplastic Reflective Pavement Marking.....	246.61	
		For <10, Add	28.36	
		For >50 To 100, Deduct	-14.18	
		For >100 To 200, Deduct	-18.91	
		For >200, Deduct	-37.82	
32 17 23 13-0118	EA	CALTRANS Bike Loop Detector Symbol, Painted Thermoplastic Reflective Pavement Marking	49.23	
		Note: Approximate overall dimensions: 4' width x 8' height.		
		For <10, Add	6.65	
		For >50 To 100, Deduct	-3.33	
		For >100 To 200, Deduct	-4.44	
		For >200, Deduct	-8.87	
32 17 23 13-0119	SF	CALTRANS Letter/Number, Painted Thermoplastic Reflective Pavement Marking.....	9.73	
32 17 23 13-0120	SF	CALTRANS Symbols, Painted Thermoplastic Reflective Pavement Marking	10.67	
		Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0121		Painted and/or Raised Reflective Pavement Marking (CALTRANS) (32 17 23 13)		
		Note: 20 to 25 mil thickness, per LF of detail for painted.		
32 17 23 13-0122	LF	CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping	0.31	
		For Up To 5,000 LF, Add	0.06	
		For >25,000 LF, Deduct	-0.05	
32 17 23 13-0123	LF	CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping	0.50	
		For Up To 5,000 LF, Add	0.10	
		For >25,000 LF, Deduct	-0.08	
32 17 23 13-0124	LF	CALTRANS Detail 4 Centerline	1.14	
		For Up To 5,000 LF, Add	0.23	
		For >25,000 LF, Deduct	-0.17	
32 17 23 13-0125	LF	CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping	0.31	
		For Up To 5,000 LF, Add	0.06	
		For >25,000 LF, Deduct	-0.05	
32 17 23 13-0126	LF	CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.51	
		For Up To 5,000 LF, Add	0.10	
		For >25,000 LF, Deduct	-0.08	
32 17 23 13-0127	LF	CALTRANS Detail 7 Centerline	0.82	
		For Up To 5,000 LF, Add	0.16	
		For >25,000 LF, Deduct	-0.12	
32 17 23 13-0128	LF	CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.31	
		For Up To 5,000 LF, Add	0.06	
		For >25,000 LF, Deduct	-0.05	
32 17 23 13-0129	LF	CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.50	
		For Up To 5,000 LF, Add	0.10	
		For >25,000 LF, Deduct	-0.08	
32 17 23 13-0130	LF	CALTRANS Detail 10 Lanelines	1.14	
		For Up To 5,000 LF, Add	0.23	
		For >25,000 LF, Deduct	-0.17	
32 17 23 13-0131	LF	CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.31	
		For Up To 5,000 LF, Add	0.06	
		For >25,000 LF, Deduct	-0.05	



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0132	LF		CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.49	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0133	LF		CALTRANS Detail 13 Lanelines	0.82	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
32 17 23 13-0134	LF		CALTRANS Detail 14 Lanelines	0.82	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
32 17 23 13-0135	LF		CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping	0.49	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0136	LF		CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.45	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
			For Broken Line On One Side, Deduct	-0.07	
			For Double Broken Line, Deduct	-0.14	
32 17 23 13-0137	LF		CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	1.22	
			For Up To 5,000 LF, Add	0.24	
			For >25,000 LF, Deduct	-0.18	
32 17 23 13-0138	LF		CALTRANS Detail 17 No Passing Zones-One Direction Lanelines	3.29	
			For Up To 5,000 LF, Add	0.66	
			For >25,000 LF, Deduct	-0.49	
32 17 23 13-0139	LF		CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.45	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
			For Broken Line On One Side, Deduct	-0.07	
			For Double Broken Line, Deduct	-0.14	
32 17 23 13-0140	LF		CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	1.02	
			For Up To 5,000 LF, Add	0.20	
			For >25,000 LF, Deduct	-0.15	
32 17 23 13-0141	LF		CALTRANS Detail 20 No Passing Zones-One Direction Lanelines	2.77	
			For Up To 5,000 LF, Add	0.55	
			For >25,000 LF, Deduct	-0.42	
32 17 23 13-0142	LF		CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.55	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line On One Side, Deduct	-0.11	
			For Double Broken Line, Deduct	-0.21	
32 17 23 13-0143	LF		CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	1.32	
			For Up To 5,000 LF, Add	0.26	
			For >25,000 LF, Deduct	-0.20	
32 17 23 13-0144	LF		CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines	3.90	
			For Up To 5,000 LF, Add	0.78	
			For >25,000 LF, Deduct	-0.59	
32 17 23 13-0145	LF		CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping	0.41	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0146	LF		CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping	0.60	
			For Up To 5,000 LF, Add	0.12	
			For >25,000 LF, Deduct	-0.09	
32 17 23 13-0147	LF		CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping	0.79	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
32 17 23 13-0148	LF		CALTRANS Detail 26 Left Edgelines	0.19	
			For Up To 5,000 LF, Add	0.04	
			For >25,000 LF, Deduct	-0.03	
32 17 23 13-0149	LF		CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping	0.74	
			For Up To 5,000 LF, Add	0.15	
			For >25,000 LF, Deduct	-0.11	
32 17 23 13-0150	LF		CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.41	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0151	LF		CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping	0.30	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.05	
32 17 23 13-0152	LF		CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping	1.10	
			For Up To 5,000 LF, Add	0.22	
			For >25,000 LF, Deduct	-0.17	
			For Broken Line On One Side, Deduct	-0.21	
			For Double Broken Line, Deduct	-0.42	
32 17 23 13-0153	LF		CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping	1.87	
			For Up To 5,000 LF, Add	0.37	
			For >25,000 LF, Deduct	-0.28	
32 17 23 13-0154	LF		CALTRANS Detail 30 Median Islands	7.82	
			For Up To 5,000 LF, Add	1.56	
			For >25,000 LF, Deduct	-1.17	
32 17 23 13-0155	LF		CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	0.89	
			For Up To 5,000 LF, Add	0.18	
			For >25,000 LF, Deduct	-0.13	
			For Broken Line On One Side, Deduct	-0.13	
			For Double Broken Line, Deduct	-0.26	
32 17 23 13-0156	LF		CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	1.85	
			For Up To 5,000 LF, Add	0.37	
			For >25,000 LF, Deduct	-0.28	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0157 LF CALTRANS Detail 33 Two-Way Left Turn Lanes	5.36	
For Up To 5,000 LF, Add	1.07	
For >25,000 LF, Deduct	-0.80	
32 17 23 13-0158 LF CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	1.02	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
32 17 23 13-0159 LF CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping	0.45	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0160 LF CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping	1.23	
For Up To 5,000 LF, Add	0.25	
For >25,000 LF, Deduct	-0.18	
32 17 23 13-0161 LF CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping	0.45	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0162 LF CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping	2.09	
For Up To 5,000 LF, Add	0.42	
For >25,000 LF, Deduct	-0.31	
32 17 23 13-0163 LF CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping	1.32	
For Up To 5,000 LF, Add	0.26	
For >25,000 LF, Deduct	-0.20	
32 17 23 13-0164 LF CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	1.44	
For Up To 5,000 LF, Add	0.29	
For >25,000 LF, Deduct	-0.22	
32 17 23 13-0165 LF CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	1.24	
For Up To 5,000 LF, Add	0.25	
For >25,000 LF, Deduct	-0.19	
32 17 23 13-0166 LF CALTRANS Detail 37A Lane Drop At Exit Ramps	2.62	
For Up To 5,000 LF, Add	0.52	
For >25,000 LF, Deduct	-0.39	
32 17 23 13-0167 LF CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping	1.24	
For Up To 5,000 LF, Add	0.25	
For >25,000 LF, Deduct	-0.19	
32 17 23 13-0168 LF CALTRANS Detail 37C Lane Drop At Intersections	2.62	
For Up To 5,000 LF, Add	0.52	
For >25,000 LF, Deduct	-0.39	
32 17 23 13-0169 LF CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	1.20	
For Up To 5,000 LF, Add	0.24	
For >25,000 LF, Deduct	-0.18	
32 17 23 13-0170 LF CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping	0.83	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.12	
32 17 23 13-0171 LF CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping	1.60	
For Up To 5,000 LF, Add	0.32	
For >25,000 LF, Deduct	-0.24	
32 17 23 13-0172 LF CALTRANS Detail 38C Channelizing Line	3.90	
For Up To 5,000 LF, Add	0.78	
For >25,000 LF, Deduct	-0.59	
32 17 23 13-0173 LF CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.52	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.08	
32 17 23 13-0174 LF CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.40	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0175 LF CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.29	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0176 LF CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.89	
For Up To 5,000 LF, Add	0.38	
For >25,000 LF, Deduct	-0.28	
32 17 23 13-0177 LF CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.29	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0178 LF CALTRANS Detail 41A Center Line Extensions Through Intersections	1.89	
For Up To 5,000 LF, Add	0.38	
For >25,000 LF, Deduct	-0.28	
32 17 23 13-0179 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	135.75	
For <10, Add	17.51	
For >50 To 100, Deduct	-8.75	
For >100 To 200, Deduct	-11.67	
For >200, Deduct	-23.34	
32 17 23 13-0180 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	238.24	
For <10, Add	30.64	
For >50 To 100, Deduct	-15.32	
For >100 To 200, Deduct	-20.43	
For >200, Deduct	-40.85	
32 17 23 13-0181 EA CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	298.91	
For <10, Add	38.52	
For >50 To 100, Deduct	-19.26	
For >100 To 200, Deduct	-25.68	
For >200, Deduct	-51.35	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0182 EA CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	434.67	
For <10, Add	56.03	
For >50 To 100, Deduct	-28.01	
For >100 To 200, Deduct	-37.35	
For >200, Deduct	-74.70	
32 17 23 13-0183 EA CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	570.42	
For <10, Add	73.53	
For >50 To 100, Deduct	-36.77	
For >100 To 200, Deduct	-49.02	
For >200, Deduct	-98.04	
32 17 23 13-0184 EA CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking	401.40	
For <10, Add	51.65	
For >50 To 100, Deduct	-25.82	
For >100 To 200, Deduct	-34.43	
For >200, Deduct	-68.86	
32 17 23 13-0185 EA CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	700.33	
For <10, Add	90.17	
For >50 To 100, Deduct	-45.08	
For >100 To 200, Deduct	-60.11	
For >200, Deduct	-120.22	
32 17 23 13-0186 EA CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	142.94	
For <10, Add	18.38	
For >50 To 100, Deduct	-9.19	
For >100 To 200, Deduct	-12.26	
For >200, Deduct	-24.51	
32 17 23 13-0187 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking.....	313.31	
For <10, Add	40.27	
For >50 To 100, Deduct	-20.13	
For >100 To 200, Deduct	-26.85	
For >200, Deduct	-53.69	
32 17 23 13-0188 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking.....	401.40	
For <10, Add	51.65	
For >50 To 100, Deduct	-25.82	
For >100 To 200, Deduct	-34.43	
For >200, Deduct	-68.86	
32 17 23 13-0189 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking	258.77	
For <10, Add	33.27	
For >50 To 100, Deduct	-16.63	
For >100 To 200, Deduct	-22.18	
For >200, Deduct	-44.35	
32 17 23 13-0190 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking	340.73	
For <10, Add	43.77	
For >50 To 100, Deduct	-21.88	
For >100 To 200, Deduct	-29.18	
For >200, Deduct	-58.36	
32 17 23 13-0191 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking	67.88	
For <10, Add	8.75	
For >50 To 100, Deduct	-4.38	
For >100 To 200, Deduct	-5.84	
For >200, Deduct	-11.67	
32 17 23 13-0192 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking.....	649.56	
Note: Excludes variable width transverse lines.		
For <10, Add	83.16	
For >50 To 100, Deduct	-41.58	
For >100 To 200, Deduct	-55.44	
For >200, Deduct	-110.88	
32 17 23 13-0193 SF CALTRANS Solid Area, Painted Reflective Pavement Marking	8.48	
32 17 23 13-0194 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking.....	63.71	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	6.30	
For >50 To 100, Deduct	-3.15	
For >100 To 200, Deduct	-4.20	
For >200, Deduct	-8.40	
32 17 23 13-0195 EA CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking.....	67.45	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	6.65	
For >50 To 100, Deduct	-3.33	
For >100 To 200, Deduct	-4.44	
For >200, Deduct	-8.87	
32 17 23 13-0196 EA CALTRANS Diamond Symbol, Painted Reflective Pavement Marking.....	108.32	
For <10, Add	14.01	
For >50 To 100, Deduct	-7.00	
For >100 To 200, Deduct	-9.34	
For >200, Deduct	-18.67	
32 17 23 13-0197 EA CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking	220.35	
For <10, Add	28.36	
For >50 To 100, Deduct	-14.18	
For >100 To 200, Deduct	-18.91	
For >200, Deduct	-37.82	
32 17 23 13-0198 EA CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	46.94	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	6.65	
For >50 To 100, Deduct	-3.33	
For >100 To 200, Deduct	-4.44	
For >200, Deduct	-8.87	
32 17 23 13-0199 SF CALTRANS Letter/Number, Painted Reflective Pavement Marking	8.59	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0200	SF	CALTRANS Symbols, Painted Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc.	9.53	
32 17 23 13-0201		Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13) Note: Includes primers. Per Coat.		
32 17 23 13-0202		Painted Pavement Marking For Parking Areas (32 17 23 13-0201) Note: 15 mil thickness.		
32 17 23 13-0203	LF	Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.41	
32 17 23 13-0204	LF	Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.55	
32 17 23 13-0205	LF	Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.66	
32 17 23 13-0206	LF	Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.88	
32 17 23 13-0207	SF	Solid Area, Painted Pavement Marking For Parking Areas..... Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.	7.30	
32 17 23 13-0208	EA	6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	5.15	
		For Up To 10, Add	0.70	
		For >50 To 100, Deduct	-0.35	
		For >100 To 200, Deduct	-0.47	
		For >200, Deduct	-0.93	
32 17 23 13-0209	EA	12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	8.79	
		For Up To 10, Add	1.05	
		For >50 To 100, Deduct	-0.53	
		For >100 To 200, Deduct	-0.70	
		For >200, Deduct	-1.40	
32 17 23 13-0210	EA	24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	14.81	
		For Up To 10, Add	1.75	
		For >50 To 100, Deduct	-0.88	
		For >100 To 200, Deduct	-1.17	
		For >200, Deduct	-2.34	
32 17 23 13-0211	EA	36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	27.68	
		For Up To 10, Add	3.33	
		For >50 To 100, Deduct	-1.66	
		For >100 To 200, Deduct	-2.22	
		For >200, Deduct	-4.43	
32 17 23 13-0212	EA	42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	36.68	
		For Up To 10, Add	4.55	
		For >50 To 100, Deduct	-2.28	
		For >100 To 200, Deduct	-3.04	
		For >200, Deduct	-6.07	
32 17 23 13-0213	EA	48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	44.51	
		For Up To 10, Add	5.60	
		For >50 To 100, Deduct	-2.80	
		For >100 To 200, Deduct	-3.74	
		For >200, Deduct	-7.47	
32 17 23 13-0214	EA	72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	59.77	
		For Up To 10, Add	7.00	
		For >50 To 100, Deduct	-3.50	
		For >100 To 200, Deduct	-4.67	
		For >200, Deduct	-9.34	
32 17 23 13-0215	EA	Through Lane Arrow, Painted Pavement Marking For Parking Areas	107.79	
		Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0216	EA	Turn Lane Arrow, Painted Pavement Marking For Parking Areas	123.89	
		Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0217	EA	Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas	177.87	
		Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0218	EA	Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas	181.58	
		Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23 13-0219	EA	Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas	238.43	
		Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0220	EA	Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas	43.52	
		Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
		For Blue Background With White Symbol, Add	33.05	
		For Blue Background With White Symbol And Border, Add	41.32	
32 17 23 13-0221	EA	Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas.....	64.53	
		Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.		
		For Blue Background With White Symbol, Add	68.50	
		For Blue Background With White Symbol And Border, Add	85.63	
32 17 23 13-0222		Painted Curbs (32 17 23 13) Note: All colors.		
32 17 23 13-0223	LF	Reflective Painted Curb	4.36	
32 17 23 13-0224	LF	Reflective Painted Curb And Gutter.....	8.38	
32 17 23 13-0225	LF	Painted Curb.....	3.55	
32 17 23 13-0226	LF	Painted Curb And Gutter.....	7.68	
32 17 23 13-0227		Markings For Outdoor Play Areas, Courts (32 17 23 13)		
32 17 23 13-0228	LF	2" Wide Marking For Outdoor Play Areas	1.14	
32 17 23 13-0229	LF	3" Wide Marking For Outdoor Play Areas	1.29	
32 17 23 13-0230	LF	4" Wide Marking For Outdoor Play Areas	1.46	
32 17 23 13-0231	LF	6" Wide Marking For Outdoor Play Areas	1.72	
32 17 23 13-0232	EA	Layout And Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, etc.).....	396.65	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 17 23 23 Raised Pavement Markings (32 17 23)**32 17 23 23-0001 Raised Pavement Markers (RPMs)** (32 17 23 23)

Note: White, Red, Yellow/Amber, Green or Blue

32 17 23 23-0002	EA	One-Way Reflective, Raised Pavement Marker (RPM)	8.57	2.93
		Note: Type G, H or R		
		For >100, Deduct	-0.86	
32 17 23 23-0003	EA	Two-Way Reflective, Raised Pavement Marker (RPM)	9.11	2.93
		Note: Type B, C, D, AC, RA or RR		
		For >100, Deduct	-0.91	
32 17 23 23-0004	EA	4" Diameter, Round Reflective, Raised Pavement Marker (RPM)	11.31	2.93
		For >100, Deduct	-1.13	
32 17 23 23-0005	EA	4" Diameter, Non-Reflective, Raised Pavement Marker (RPM)	7.88	2.93
		Note: Type A or AY		
		For >100, Deduct	-0.79	

32 17 23 23-0006 Snowplowable Pavement Markers (32 17 23 23)

32 17 23 23-0007	EA	One-Way Reflective, Snowplowable Pavement Marker With Center Rail	85.23	36.19
		Note: Type G, H or R		
32 17 23 23-0008	EA	Two-Way Reflective, Snowplowable Pavement Marker With Center Rail	85.70	36.19
		Note: Type B, C, D, AC, RA or RR		
32 17 23 23-0009	EA	Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	24.94	
32 17 23 23-0010	EA	Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker	31.44	

32 17 23 33 Plastic Pavement Markings (32 17 23)**32 17 23 33-0001 Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads** (32 17 23 33)

Note: Includes primers, adhesive and reflective glass beads. For broken line modifier quantity use total lane length.

32 17 23 33-0002 Thermoplastic Reflective Pavement Marking (32 17 23 33-0001)

Note: 90 mil thickness.

32 17 23 33-0003	LF	Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.06	
		For Up To 5,000 LF, Add	0.41	
		For >25,000 LF, Deduct	-0.31	
		For Enhanced Wet-Night Visibility, Add	0.08	
		For 60 mils Thick, Deduct	-0.30	
		For 125 mils Thick, Add	0.38	
		For Broken Line (25% Solid), Deduct	-1.28	
32 17 23 33-0004	LF	Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	3.00	
		Note: Includes yellow or white.		
		For Up To 5,000 LF, Add	0.60	
		For >25,000 LF, Deduct	-0.45	
		For Enhanced Wet-Night Visibility, Add	0.12	
		For 60 mils Thick, Deduct	-0.45	
		For 125 mils Thick, Add	0.58	
		For Broken Line (25% Solid), Deduct	-1.92	
32 17 23 33-0005	LF	Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	3.97	
		Note: Includes yellow or white.		
		For Up To 5,000 LF, Add	0.79	
		For >25,000 LF, Deduct	-0.60	
		For Enhanced Wet-Night Visibility, Add	0.16	
		For 60 mils Thick, Deduct	-0.60	
		For 125 mils Thick, Add	0.77	
		For Broken Line (25% Solid), Deduct	-2.56	
32 17 23 33-0006	LF	Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	5.84	
		Note: Includes yellow or white.		
		For Up To 5,000 LF, Add	1.17	
		For >25,000 LF, Deduct	-0.88	
		For Enhanced Wet-Night Visibility, Add	0.24	
		For 60 mils Thick, Deduct	-0.89	
		For 125 mils Thick, Add	1.15	
		For Broken Line (25% Solid), Deduct	-3.83	
32 17 23 33-0007	LF	Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	3.95	
		Note: Includes yellow or white.		
		For Up To 5,000 LF, Add	0.79	
		For >25,000 LF, Deduct	-0.59	
		For Enhanced Wet-Night Visibility, Add	0.16	
		For 60 mils Thick, Deduct	-0.60	
		For 125 mils Thick, Add	0.77	
		For Broken Line On One Side, Deduct	-1.28	
		For Double Broken Line, Deduct	-2.56	
32 17 23 33-0008	LF	Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	5.84	
		Note: Includes yellow or white.		
		For Up To 5,000 LF, Add	1.17	
		For >25,000 LF, Deduct	-0.88	
		For Enhanced Wet-Night Visibility, Add	0.24	
		For 60 mils Thick, Deduct	-0.89	
		For 125 mils Thick, Add	1.15	
		For Broken Line On One Side, Deduct	-1.92	
		For Double Broken Line, Deduct	-3.83	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0009 SF Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 12.09 Note: Includes yellow or white. For Enhanced Wet-Night Visibility, Add 0.24 For 60 mils Thick, Deduct -0.89 For 125 mils Thick, Add 1.15		
32 17 23 33-0010 EA 6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 7.66 For Up To 10, Add 0.79 For >50 To 100, Deduct -0.39 For >100 To 200, Deduct -0.53 For >200, Deduct -1.05 For Enhanced Wet-Night Visibility, Add 0.11 For 60 mils Thick, Deduct -0.42 For 125 mils Thick, Add 0.54		
32 17 23 33-0011 EA 12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 16.64 For Up To 10, Add 1.19 For >50 To 100, Deduct -0.60 For >100 To 200, Deduct -0.79 For >200, Deduct -1.59 For Enhanced Wet-Night Visibility, Add 0.41 For 60 mils Thick, Deduct -1.52 For 125 mils Thick, Add 1.96		
32 17 23 33-0012 EA 24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 28.42 For Up To 10, Add 1.98 For >50 To 100, Deduct -0.99 For >100 To 200, Deduct -1.32 For >200, Deduct -2.64 For Enhanced Wet-Night Visibility, Add 0.72 For 60 mils Thick, Deduct -2.67 For 125 mils Thick, Add 3.43		
32 17 23 33-0013 EA 36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 53.26 For Up To 10, Add 3.97 For >50 To 100, Deduct -1.99 For >100 To 200, Deduct -2.65 For >200, Deduct -5.30 For Enhanced Wet-Night Visibility, Add 1.27 For 60 mils Thick, Deduct -4.68 For 125 mils Thick, Add 6.02		
32 17 23 33-0014 EA 48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 64.45 For Up To 10, Add 4.45 For >50 To 100, Deduct -2.22 For >100 To 200, Deduct -2.97 For >200, Deduct -5.93 For Enhanced Wet-Night Visibility, Add 1.65 For 60 mils Thick, Deduct -6.09 For 125 mils Thick, Add 7.83		
32 17 23 33-0015 EA 72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 116.34 For Up To 10, Add 7.91 For >50 To 100, Deduct -3.96 For >100 To 200, Deduct -5.28 For >200, Deduct -10.55 For Enhanced Wet-Night Visibility, Add 3.02 For 60 mils Thick, Deduct -11.13 For 125 mils Thick, Add 14.31		
32 17 23 33-0016 EA 96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 154.50 For Up To 10, Add 10.63 For >50 To 100, Deduct -5.31 For >100 To 200, Deduct -7.08 For >200, Deduct -14.17 For Enhanced Wet-Night Visibility, Add 3.97 For 60 mils Thick, Deduct -14.64 For 125 mils Thick, Add 18.82		
32 17 23 33-0017 EA 120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 274.49 For Up To 10, Add 13.17 For >50 To 100, Deduct -6.58 For >100 To 200, Deduct -8.78 For >200, Deduct -17.55 For Enhanced Wet-Night Visibility, Add 8.87 For 60 mils Thick, Deduct -32.68 For 125 mils Thick, Add 42.01		
32 17 23 33-0018 SF Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 13.96 For Enhanced Wet-Night Visibility, Add 0.29 For 60 mils Thick, Deduct -1.05 For 125 mils Thick, Add 1.35		
32 17 23 33-0019 SY Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 40.62 Note: Per SY of area. For Enhanced Wet-Night Visibility, Add 0.54 For 60 mils Thick, Deduct -2.00 For 125 mils Thick, Add 2.57		
32 17 23 33-0020 EA Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 361.35 For Enhanced Wet-Night Visibility, Add 6.58 For 60 mils Thick, Deduct -24.24 For 125 mils Thick, Add 31.17		
32 17 23 33-0021 EA Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 1,075.24 For Enhanced Wet-Night Visibility, Add 20.03 For 60 mils Thick, Deduct -73.78 For 125 mils Thick, Add 94.86		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0022	EA		Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	237.39	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For Enhanced Wet-Night Visibility, Add	9.06	
			For 60 mils Thick, Deduct	-33.37	
			For 125 mils Thick, Add	42.91	
32 17 23 33-0023	EA		Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	172.82	
			For Enhanced Wet-Night Visibility, Add	3.15	
			For 60 mils Thick, Deduct	-11.60	
			For 125 mils Thick, Add	14.91	
32 17 23 33-0024	SF		Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	15.70	
			Note: Handicap, railroad, diamond, arrows, etc.		
			For Enhanced Wet-Night Visibility, Add	0.29	
			For 60 mils Thick, Deduct	-1.05	
			For 125 mils Thick, Add	1.35	
32 17 23 33-0025	EA		10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	219.94	
			For Enhanced Wet-Night Visibility, Add	4.01	
			For 60 mils Thick, Deduct	-14.76	
			For 125 mils Thick, Add	18.97	
32 17 23 33-0026	EA		18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	392.77	
			For Enhanced Wet-Night Visibility, Add	7.15	
			For 60 mils Thick, Deduct	-26.35	
			For 125 mils Thick, Add	33.88	
32 17 23 33-0027	EA		24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	487.04	
			For Enhanced Wet-Night Visibility, Add	8.87	
			For 60 mils Thick, Deduct	-32.68	
			For 125 mils Thick, Add	42.01	
32 17 23 33-0028	EA		24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	706.98	
			For Enhanced Wet-Night Visibility, Add	12.87	
			For 60 mils Thick, Deduct	-47.43	
			For 125 mils Thick, Add	60.98	
32 17 23 33-0029	EA		24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	926.94	
			For Enhanced Wet-Night Visibility, Add	16.88	
			For 60 mils Thick, Deduct	-62.19	
			For 125 mils Thick, Add	79.96	
32 17 23 33-0030	EA		24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	659.85	
			For Enhanced Wet-Night Visibility, Add	12.02	
			For 60 mils Thick, Deduct	-44.27	
			For 125 mils Thick, Add	56.92	
32 17 23 33-0031	EA		24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	1,146.88	
			For Enhanced Wet-Night Visibility, Add	20.89	
			For 60 mils Thick, Deduct	-76.95	
			For 125 mils Thick, Add	98.93	
32 17 23 33-0032	EA		8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	235.67	
			For Enhanced Wet-Night Visibility, Add	4.29	
			For 60 mils Thick, Deduct	-15.81	
			For 125 mils Thick, Add	20.33	
32 17 23 33-0033	EA		24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	518.46	
			For Enhanced Wet-Night Visibility, Add	9.44	
			For 60 mils Thick, Deduct	-34.78	
			For 125 mils Thick, Add	44.72	
32 17 23 33-0034	EA		18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	659.85	
			For Enhanced Wet-Night Visibility, Add	12.02	
			For 60 mils Thick, Deduct	-44.27	
			For 125 mils Thick, Add	56.92	
32 17 23 33-0035	EA		13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	424.19	
			For Enhanced Wet-Night Visibility, Add	7.72	
			For 60 mils Thick, Deduct	-28.46	
			For 125 mils Thick, Add	36.59	
32 17 23 33-0036	EA		15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking.....	565.59	
			For Enhanced Wet-Night Visibility, Add	10.30	
			For 60 mils Thick, Deduct	-37.95	
			For 125 mils Thick, Add	48.79	
32 17 23 33-0037	EA		5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	109.98	
			For Enhanced Wet-Night Visibility, Add	2.00	
			For 60 mils Thick, Deduct	-7.38	
			For 125 mils Thick, Add	9.49	
32 17 23 33-0038			Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001)		
32 17 23 33-0039	LF		Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	4.16	
			For Enhanced Wet-Night Visibility, Add	0.08	
			For 60 mils Thick, Deduct	-0.30	
			For 125 mils Thick, Add	0.38	
32 17 23 33-0040	LF		Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	5.37	
			For Enhanced Wet-Night Visibility, Add	0.12	
			For 60 mils Thick, Deduct	-0.45	
			For 125 mils Thick, Add	0.58	
32 17 23 33-0041	LF		Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	6.69	
			For Enhanced Wet-Night Visibility, Add	0.16	
			For 60 mils Thick, Deduct	-0.60	
			For 125 mils Thick, Add	0.77	
32 17 23 33-0042	LF		Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs.....	9.65	
			For Enhanced Wet-Night Visibility, Add	0.24	
			For 60 mils Thick, Deduct	-0.89	
			For 125 mils Thick, Add	1.15	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0043	LF	Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs <i>For Enhanced Wet-Night Visibility, Add</i> <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i>	17.61 0.49 -1.79 2.30	
32 17 23 33-0044		Preformed, Patterned Thermoplastic Reflective Pavement Marking Tape (32 17 23 33-0001) Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0045	LF	Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i>	4.56 0.91 -0.68	
32 17 23 33-0046	LF	Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i>	6.78 1.36 -1.02	
32 17 23 33-0047	LF	Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i>	9.01 1.80 -1.35	
32 17 23 33-0048	LF	Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i>	13.41 2.68 -2.01	
32 17 23 33-0049	SF	Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape Note: Includes yellow or white.	36.11	
32 17 23 33-0050	EA	6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	53.84 1.44 -0.72 -0.96 -1.91	
32 17 23 33-0051	EA	12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	96.40 1.82 -0.91 -1.21 -2.43	
32 17 23 33-0052	EA	24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	164.71 3.61 -1.80 -2.40 -4.81	
32 17 23 33-0053	EA	36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	234.02 7.21 -3.61 -4.81 -9.62	
32 17 23 33-0054	EA	48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	275.00 8.09 -4.04 -5.39 -10.79	
32 17 23 33-0055	EA	72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	344.43 14.39 -7.20 -9.59 -19.19	
32 17 23 33-0056	EA	96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	437.33 19.33 -9.66 -12.89 -25.77	
32 17 23 33-0057	EA	120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	548.69 23.95 -11.98 -15.97 -31.93	
32 17 23 33-0058	SF	Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	37.05	
32 17 23 33-0059	SF	Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape Note: Handicap, railroad, diamond symbol, etc.	38.79	
32 17 23 33-0060		Preformed, Thermoplastic Reflective Pavement Marking Tape (32 17 23 33-0001) Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0061	EA	Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 4' width x 8' height.	526.28	
32 17 23 33-0062	EA	Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	1,397.14	
32 17 23 33-0063	EA	Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 13' height.	272.68	
32 17 23 33-0064	EA	6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 2' width x 6' height.	227.71	
32 17 23 33-0065	EA	9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.	452.75	
32 17 23 33-0066	EA	4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 4' height.	265.95	



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Bases, Ballasts, and Paving			32 10
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0067 EA 8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 505.50 Note: Approximate overall dimensions: 6' width x 8' height.	505.50	
32 17 23 33-0068 EA Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... 872.08 Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.	872.08	
32 17 23 33-0069 EA Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 1,319.47 Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.	1,319.47	
32 17 23 33-0070 EA Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 464.18 Note: Approximate overall dimensions: 1-2/3' width x 12' height.	464.18	
32 17 23 33-0071 EA Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 516.93 Note: Approximate overall dimensions: 3' width x 12' height.	516.93	
32 17 23 33-0072 EA Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... 963.84 Note: Approximate overall dimensions: 5-1/2' width x 12' height.	963.84	
32 17 23 33-0073 EA Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 884.93 Note: Approximate overall dimensions: 3-1/2' width x 20' height.	884.93	
32 17 23 33-0074 EA Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... 888.42 Note: Approximate overall dimensions: 5-1/2' width x 20' height.	888.42	
32 17 23 33-0075 EA Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 1,229.54 Note: Approximate overall dimensions: 5-1/2' width x 18' height.	1,229.54	
32 17 23 33-0076 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 33)		
32 17 23 33-0077 Thermoplastic Pavement Marking Symbols For Parking Areas (32 17 23 33-0076) Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0078 EA 28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 176.87 Note: White or blue symbol. Excludes striping.	176.87	
32 17 23 33-0079 EA 39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 677.91	677.91	
32 17 23 33-0080 EA 40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 381.26 Note: White symbol on blue background. Excludes striping.	381.26	
32 17 23 33-0081 EA 45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 458.83 Note: White symbol on blue background. Excludes striping.	458.83	
32 17 23 33-0082 EA 48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 481.02	481.02	
32 17 26 Tactile Warning Surfaces (32 17)		
32 17 26 00-0001 Vitriified Polymer Composite (VPC); (Armor Tile) (32 17 26) Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002 SF Surface Applied VPC Truncated Dome Detectable Warning Surface..... 74.58	74.58	11.61
32 17 26 00-0003 SF Embedded, VPC Truncated Dome Detectable Warning Surface..... 59.49 Note: Also raised strips or directional bars. All colors.	59.49	11.61
32 17 26 00-0004 EA 30.5" x 24" x 2" Precast Concrete Truncated Dome Panel Set In Thinset..... 436.38	436.38	
32 17 26 00-0005 LF 24" Wide Temporary Truncated Dome Strips, Screw Down Only Into Asphalt Or Concrete..... 106.56	106.56	23.21
32 17 26 00-0006 Fiber-Reinforced, Polymer Modified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) (32 17 26) Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0007 SF Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) 88.46 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish. All colors. 2' or 3' width.	88.46	11.61
32 17 26 00-0008 SF >15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT)..... 78.01 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish. All colors. 2' or 3' width.	78.01	11.61
32 18 Athletic and Recreational Surfacing (32 10)		
32 18 16 Synthetic Resilient Surfacing (32 18)		
32 18 16 13 Playground Protective Surfacing (32 18 16)		
32 18 16 13-0001 Tile Playground Surface Material (32 18 16 13) Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.		
32 18 16 13-0002 SF 1-3/4" Thick, Resilient Rubber Tile Playground Surfacing 26.73 For Manufacturer's Standard Colors, Add 1.69 For Interlocking Tiles, Add 3.75 For Mechanically Fastened, Add 1.99 For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add 1.50	26.73	2.66
32 18 16 13-0003 SF 2" Thick, Resilient Rubber Tile Playground Surfacing..... 27.23 For Manufacturer's Standard Colors, Add 1.69 For Interlocking Tiles, Add 3.75 For Mechanically Fastened, Add 2.09 For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add 1.50	27.23	2.82

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0004 SF 2-1/4" Thick, Resilient Rubber Tile Playground Surfacing	28.23	3.15
For Manufacturer's Standard Colors, Add	1.69	
For Interlocking Tiles, Add	3.75	
For Mechanically Fastened, Add	2.29	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0005 SF 2-1/2" Thick, Resilient Rubber Tile Playground Surfacing	29.23	3.49
For Manufacturer's Standard Colors, Add	1.69	
For Interlocking Tiles, Add	3.75	
For Mechanically Fastened, Add	2.49	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0006 SF 2-3/4" Thick, Resilient Rubber Tile Playground Surfacing	32.66	3.82
For Manufacturer's Standard Colors, Add	1.27	
For Interlocking Tiles, Add	4.24	
For Mechanically Fastened, Add	2.69	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0007 SF 3" Thick, Resilient Rubber Tile Playground Surfacing	33.76	4.18
For Manufacturer's Standard Colors, Add	1.27	
For Interlocking Tiles, Add	4.24	
For Mechanically Fastened, Add	2.91	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0008 SF 3-1/4" Thick, Resilient Rubber Tile Playground Surfacing	34.90	4.56
For Manufacturer's Standard Colors, Add	1.27	
For Interlocking Tiles, Add	4.24	
For Mechanically Fastened, Add	3.14	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0009 SF 3-1/2" Thick, Resilient Rubber Tile Playground Surfacing	38.40	4.88
For Manufacturer's Standard Colors, Add	0.71	
For Interlocking Tiles, Add	4.73	
For Mechanically Fastened, Add	3.35	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0010 SF 3-3/4" Thick, Resilient Rubber Tile Playground Surfacing	39.40	5.28
For Manufacturer's Standard Colors, Add	0.71	
For Interlocking Tiles, Add	4.73	
For Mechanically Fastened, Add	3.55	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0011 SF 4" Thick, Resilient Rubber Tile Playground Surfacing	40.49	5.58
For Manufacturer's Standard Colors, Add	0.71	
For Interlocking Tiles, Add	4.73	
For Mechanically Fastened, Add	3.77	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0012 SF 4-1/2" Thick, Resilient Rubber Tile Playground Surfacing	46.67	6.28
For Manufacturer's Standard Colors, Add	0.69	
For Interlocking Tiles, Add	5.55	
For Mechanically Fastened, Add	4.19	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0013 Loose Laid Playground Surface Material (32 18 16 13)		
Note: Excludes sub base.		
32 18 16 13-0014 SF 3" Loose Laid Wood Fiber Safety Playground Surfacing	1.89	0.40
32 18 16 13-0015 SF 6" Loose Laid Wood Fiber Safety Playground Surfacing	2.52	0.50
32 18 16 13-0016 SF 9" Loose Laid Wood Fiber Safety Playground Surfacing	3.22	0.60
32 18 16 13-0017 SF 12" Loose Laid Wood Fiber Safety Playground Surfacing	4.54	0.90
32 18 16 13-0018 SF 3" Loose Laid Synthetic Fiber Safety Playground Surfacing	2.84	0.40
32 18 16 13-0019 SF 6" Loose Laid Synthetic Fiber Safety Playground Surfacing	3.51	0.50
32 18 16 13-0020 SF 9" Loose Laid Synthetic Fiber Safety Playground Surfacing	5.39	0.60
32 18 16 13-0021 SF 12" Loose Laid Synthetic Fiber Safety Playground Surfacing	6.73	0.90
32 18 16 13-0022 SF 8" FIBAR System Playground Surfacing	11.41	1.50
Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.		
32 18 16 13-0023 SF 12" FIBAR System Playground Surfacing	14.55	2.00
Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.		
32 18 16 13-0024 Poured In Place Playground Surfacing (32 18 16 13)		
Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.		
32 18 16 13-0025 SF 1-3/4" Thick, Up To 4' Critical Fall Height, Poured In Place Rubber Playground Surfacing	21.18	3.08
For Up To 2,000, Add	4.19	
For >2,000 To 3,000, Add	2.96	
For >3,000 To 4,000, Add	2.01	
For >4,000 To 5,000, Add	1.29	
For >5,000 To 7,000, Add	0.54	
For Aliphatic (Non-Yellowing) Binder, Add	4.52	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63	
32 18 16 13-0026 SF 2" Thick, 5' Critical Fall Height, Poured In Place Rubber Playground Surfacing	21.85	3.43
For Up To 2,000, Add	4.32	
For >2,000 To 3,000, Add	3.05	
For >3,000 To 4,000, Add	2.08	
For >4,000 To 5,000, Add	1.33	
For >5,000 To 7,000, Add	0.55	
For Aliphatic (Non-Yellowing) Binder, Add	4.52	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Athletic and Recreational Surfacing			32 18

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0027	SF	2-1/2" Thick, 6' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	23.58	3.91	
		For Up To 2,000, Add	4.66		
		For >2,000 To 3,000, Add	3.29		
		For >3,000 To 4,000, Add	2.24		
		For >4,000 To 5,000, Add	1.43		
		For >5,000 To 7,000, Add	0.60		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0028	SF	3" Thick, 7' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	25.47	4.16	
		For Up To 2,000, Add	5.04		
		For >2,000 To 3,000, Add	3.55		
		For >3,000 To 4,000, Add	2.42		
		For >4,000 To 5,000, Add	1.55		
		For >5,000 To 7,000, Add	0.64		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0029	SF	3-1/2" Thick, 8' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	27.35	4.38	
		For Up To 2,000, Add	5.41		
		For >2,000 To 3,000, Add	3.81		
		For >3,000 To 4,000, Add	2.60		
		For >4,000 To 5,000, Add	1.66		
		For >5,000 To 7,000, Add	0.69		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0030	SF	4" Thick, 9' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	28.95	4.63	
		For Up To 2,000, Add	5.72		
		For >2,000 To 3,000, Add	4.04		
		For >3,000 To 4,000, Add	2.75		
		For >4,000 To 5,000, Add	1.76		
		For >5,000 To 7,000, Add	0.73		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0031	SF	4-1/2" Thick, 10' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	30.84	4.89	
		For Up To 2,000, Add	6.10		
		For >2,000 To 3,000, Add	4.30		
		For >3,000 To 4,000, Add	2.93		
		For >4,000 To 5,000, Add	1.87		
		For >5,000 To 7,000, Add	0.78		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0032	SF	5-1/2" Thick, 12' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	34.60	5.48	
		For Up To 2,000, Add	6.84		
		For >2,000 To 3,000, Add	4.82		
		For >3,000 To 4,000, Add	3.29		
		For >4,000 To 5,000, Add	2.10		
		For >5,000 To 7,000, Add	0.88		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0033	SF	1/2" Top Only, Poured In Place Playground Surfacing.....	13.83		
		Note: Not used with new surfacing system tasks.			
		For Up To 2,000, Add	4.11		
		For >2,000 To 3,000, Add	2.66		
		For >3,000 To 4,000, Add	1.63		
		For >4,000 To 5,000, Add	0.98		
		For >5,000 To 7,000, Add	0.44		
		For Aliphatic (Non-Yellowing) Binder, Add	4.52		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.63		
32 18 16 13-0034	EA	Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing.....	3,038.22		
32 18 16 13-0035		Synthetic Playground Turf (Sporturf) (32 18 16 13)			
		Note: Excludes base preparation, aggregate, or drainage.			
32 18 16 13-0036	SF	60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929).....	11.13		
32 18 16 13-0037	SF	71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906).....	9.79		
32 18 16 13-0038	SF	2" Foam Padding (Sporturf).....	6.32		
32 18 16 13-0039	CF	Sand/Rubber Infill (Sporturf).....	59.41		
32 18 23		Athletic Surfacing (32 18)			
32 18 23 13		Baseball Field Surfacing (32 18 23)			
32 18 23 13-0001		Clay Infield Maintenance (32 18 23 13)			
32 18 23 13-0002	MSF	Playing Field Maintenance (Clay - Nail Drag).....	12.76		
32 18 23 13-0003	MSF	Playing Field Maintenance (Clay - Screen Drag).....	12.76		
32 18 23 13-0004	CY	Playing Field Maintenance Of Clay.....	115.68		
32 18 23 13-0005	TON	Professional Softball/Baseball Infield Mix (Diamond-Tex Professional).....	126.50		
32 18 23 23		Field Sport Surfacing (32 18 23)			
32 18 23 23-0001		Turf Field Maintenance (32 18 23 23)			
32 18 23 23-0002	ACR	Turf Aeration (Minimum 6" Penetration).....	171.67		

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 18	Athletic and Recreational Surfacing



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 18 23 23-0003	MSF Top Dressing 1/8" - 1/4" Sand	16.32
32 18 23 23-0004	BAG Envirofill, 50 Lb. Bag	128.39

32 18 23 29 Synthetic Field Sport Surfacing (32 18 23)

32 18 23 29-0001	Synthetic Field Sport Surfacing (32 18 23 29)	
32 18 23 29-0002	Synthetic Turf (AstroTurf) (32 18 23 29-0001) Note: Includes labor, equipment and material required to install the task.	
32 18 23 29-0003	Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) (32 18 23 29-0002)	
32 18 23 29-0004	38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) (32 18 23 29-0003)	
32 18 23 29-0005	SF 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38)	8.76
	For Ambient Rubber And Sand Infill, Add	0.10
	For Cryo Rubber Infill, Add	0.26
	For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31
	For Cryo Rubber And Sand Infill, Add	0.36
32 18 23 29-0006	EA Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields	28,996.35
32 18 23 29-0007	EA Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields	23,634.76
32 18 23 29-0008	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields	7,112.31
	Note: Per sport.	
32 18 23 29-0009	EA End Zone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields	2,626.08
	Note: Per letter. Excludes outline.	
32 18 23 29-0010	EA Colored End Zone For AstroTurf® GameDay Grass™ MT 38 Fields	2,516.66
	Note: Per end zone.	
32 18 23 29-0011	EA Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields	21,884.04
	Note: Block letter.	
32 18 23 29-0012	EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields	31,731.86
	Note: Graphic.	

32 18 23 29-0013 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) (32 18 23 29-0003)

32 18 23 29-0014	SF 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41)	10.09
	For Ambient Rubber And Sand Infill, Add	0.10
	For Cryo Rubber Infill, Add	0.26
	For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31
	For Cryo Rubber And Sand Infill, Add	0.36
32 18 23 29-0015	EA Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields	29,543.63
32 18 23 29-0016	EA Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields	24,510.27
32 18 23 29-0017	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields	7,659.46
	Note: Per sport.	
32 18 23 29-0018	EA End Zone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields	2,844.94
	Note: Per letter. Excludes outline.	
32 18 23 29-0019	EA Colored End Zone For AstroTurf® GameDay Grass™ MT 41 Fields	2,626.10
	Note: Per end zone.	
32 18 23 29-0020	EA Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields	22,978.38
	Note: Block letter.	
32 18 23 29-0021	EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields	33,318.65
	Note: Graphic.	

32 18 23 29-0022 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) (32 18 23 29-0003)

32 18 23 29-0023	SF 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45)	10.28
	For Ambient Rubber And Sand Infill, Add	0.10
	For Cryo Rubber Infill, Add	0.26
	For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31
	For Cryo Rubber And Sand Infill, Add	0.36
32 18 23 29-0024	EA Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields	30,090.74
32 18 23 29-0025	EA Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields	26,479.85
32 18 23 29-0026	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields	8,206.56
	Note: Per sport.	
32 18 23 29-0027	EA End Zone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields	3,063.78
	Note: Per letter. Excludes outline.	
32 18 23 29-0028	EA Colored End Zone For AstroTurf® GameDay Grass™ MT 45 Fields	2,735.52
	Note: Per end zone.	
32 18 23 29-0029	EA Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields	24,072.59
	Note: Block letter.	
32 18 23 29-0030	EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields	34,905.25
	Note: Graphic.	

32 18 23 29-0031 Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) (32 18 23 29-0002)



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Athletic and Recreational Surfacing			32 18

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0032 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) (32 18 23 29-0031)		
32 18 23 29-0033 SF 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52)	11.52	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0034 EA Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	31,184.76	
32 18 23 29-0035 EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	33,263.74	
32 18 23 29-0036 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	9,300.72	
Note: Per sport.		
32 18 23 29-0037 EA End Zone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields	3,501.45	
Note: Per letter. Excludes outline.		
32 18 23 29-0038 EA Colored End Zone For AstroTurf® GameDay Grass™ 3DX 52 Fields	2,954.35	
Note: Per end zone.		
32 18 23 29-0039 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields	26,260.85	
Note: Block letter.		
32 18 23 29-0040 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields	38,078.23	
Note: Graphic.		
32 18 23 29-0041 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) (32 18 23 29-0031)		
32 18 23 29-0042 SF 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60)	11.92	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0043 EA Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	31,731.86	
32 18 23 29-0044 EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	36,984.03	
32 18 23 29-0045 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	9,847.82	
Note: Per sport.		
32 18 23 29-0046 EA End Zone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields	3,720.29	
Note: Per letter. Excludes outline.		
32 18 23 29-0047 EA Colored End Zone For AstroTurf® GameDay Grass™ 3DX 60 Fields	3,063.77	
Note: Per end zone.		
32 18 23 29-0048 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	27,355.05	
Note: Block letter.		
32 18 23 29-0049 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	39,664.82	
Note: Graphic.		
32 18 23 29-0050 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) (32 18 23 29-0031)		
32 18 23 29-0051 SF 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52)	11.93	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0052 EA Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	32,278.96	
32 18 23 29-0053 EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	37,202.87	
32 18 23 29-0054 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	10,394.92	
Note: Per sport.		
32 18 23 29-0055 EA End Zone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields	3,939.13	
Note: Per letter. Excludes outline.		
32 18 23 29-0056 EA Colored End Zone For AstroTurf® GameDay Grass™ 3D 52 Fields	3,173.19	
Note: Per end zone.		
32 18 23 29-0057 EA Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields	28,449.25	
Note: Block letter.		
32 18 23 29-0058 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields	41,251.42	
Note: Graphic.		
32 18 23 29-0059 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) (32 18 23 29-0031)		
32 18 23 29-0060 SF 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60)	12.16	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0061 EA Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	32,826.06	
32 18 23 29-0062 EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	39,610.11	
32 18 23 29-0063 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	10,942.02	
Note: Per sport.		
32 18 23 29-0064 EA End Zone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields	4,376.81	
Note: Per letter. Excludes outline.		
32 18 23 29-0065 EA Colored End Zone For AstroTurf® GameDay Grass™ 3D 60 Fields	3,282.61	
Note: Per end zone.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0066	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Block letter.	29,543.45	
32 18 23 29-0067	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields Note: Graphic.	42,838.01	
32 18 23 29-0068		Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) ^(32 18 23 29-0002)		
32 18 23 29-0069		38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) ^(32 18 23 29-0068)		
32 18 23 29-0070	SF	38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38)..... For Ambient Rubber And Sand Infill, Add For Cryo Rubber Infill, Add For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add For Cryo Rubber And Sand Infill, Add	9.68 0.10 0.26 0.31 0.36	
32 18 23 29-0071	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	27,902.32	
32 18 23 29-0072	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	20,571.12	
32 18 23 29-0073	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields Note: Per sport.	6,018.15	
32 18 23 29-0074	EA	End Zone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields	2,188.42	
32 18 23 29-0075	EA	Colored End Zone For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Per end zone.	2,297.84	
32 18 23 29-0076	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Block letter.	19,695.75	
32 18 23 29-0077	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields..... Note: Graphic.	28,558.84	
32 18 23 29-0078		42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) ^(32 18 23 29-0068)		
32 18 23 29-0079	SF	42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42)..... For Ambient Rubber And Sand Infill, Add For Cryo Rubber Infill, Add For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add For Cryo Rubber And Sand Infill, Add	8.50 0.10 0.26 0.31 0.36	
32 18 23 29-0080	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	28,449.25	
32 18 23 29-0081	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	21,884.04	
32 18 23 29-0082	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields Note: Per sport.	6,565.21	
32 18 23 29-0083	EA	End Zone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields	2,407.24	
32 18 23 29-0084	EA	Colored End Zone For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Per end zone.	2,407.24	
32 18 23 29-0085	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Block letter.	20,789.84	
32 18 23 29-0086	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields..... Note: Graphic.	30,145.27	
32 18 23 29-0087		Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) ^(32 18 23 29-0002)		
32 18 23 29-0088	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	19.18	
32 18 23 29-0089	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®).....	17.17	
32 18 23 29-0090	EA	Football Markings For AstroTurf® PureGrass® Fields	53,991.73	
32 18 23 29-0091	EA	Baseball Markings For AstroTurf® PureGrass® Fields	64,144.02	
32 18 23 29-0092	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields Note: Per sport.	15,689.91	
32 18 23 29-0093	EA	End Zone Lettering For AstroTurf® PureGrass® Fields	5,999.08	
32 18 23 29-0094	EA	Colored End Zone For AstroTurf® PureGrass® Fields..... Note: Per end zone.	4,452.93	
32 18 23 29-0095	EA	Simple Logo For AstroTurf® PureGrass® Fields..... Note: Block letter.	40,076.34	
32 18 23 29-0096	EA	Deluxe Logo For AstroTurf® PureGrass® Fields..... Note: Graphic.	58,837.14	
32 18 23 29-0097		Synthetic Turf (G9 Turf) ^(32 18 23 29-0001) Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0098	SF	2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf) Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos. For >35,000, Deduct	10.55 -0.95	
32 18 23 29-0099	SF	2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf)..... Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos. For >35,000, Deduct	10.45 -0.94	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Athletic and Recreational Surfacing			32 18

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0100	SF		1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf).....	10.92	
Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.					
32 18 23 29-0101	EA		Football Inlays For G9 Synthetic Turf	74,661.11	
Note: Includes field grid, numbers, arrows, coach's box and kick off lines.					
32 18 23 29-0102	EA		Soccer Inlays For G9 Synthetic Turf	32,353.15	
32 18 23 29-0103	EA		Boys Lacrosse Inlays For G9 Synthetic Turf	32,353.15	
32 18 23 29-0104	EA		Girls Lacrosse Inlays For G9 Synthetic Turf	32,353.15	
32 18 23 29-0105	EA		Field Hockey Inlays For G9 Synthetic Turf	32,353.15	
32 18 23 29-0106	EA		End Zone Lettering For G9 Synthetic Turf	3,733.06	
Note: Priced per letter. Includes single color outlining.					
32 18 23 29-0107	SF		Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf	3.50	
32 18 23 29-0108	SF		Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf	9.13	
32 18 23 29-0109	SF		Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf	2.60	
32 18 23 29-0110	SF		Sand Infill For G9 Synthetic Turf	1.31	
32 18 23 29-0111	SF		Acrylic Coated Sand Infill For G9 Synthetic Turf	2.16	
32 18 23 29-0112	EA		Gmax Compaction And Hardness Test For G9 Synthetic Turf	2,488.70	
Note: Includes a comprehensive report.					
32 18 23 29-0113	EA		Safety Bridge Over Track For G9 Synthetic Turf	24,887.04	
32 18 23 29-0114	SF		Clean And Groom Synthetic Turf	0.82	
Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.					
For >10,000 To 30,000, Deduct				-0.33	
For >30,000 To 60,000, Deduct				-0.57	
For >60,000, Deduct				-0.63	
32 18 23 29-0115	SF		Rejuvenate Synthetic Turf And Reinstall Existing Infill	5.58	
Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high-pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.					
32 18 23 29-0116	SF		Rejuvenate Synthetic Turf For Installation Of New Infill	6.20	
Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high-pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.					
32 18 23 29-0117	SF		Drainage Layer For G9 Synthetic Turf	5.08	
Note: Used for drainage over asphalt or on rooftops.					
32 18 23 29-0118	SF		15 mm, Shock Pad For G9 Synthetic Turf	3.12	
Note: Used for additional Gmax for a stone base field.					
32 18 23 29-0119	EA		Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf	4,959.80	
Note: Includes field inspection and report.					
32 18 23 29-0120	LF		Repair Inlay Lines Or Seams On G9 Synthetic Turf	13.64	
Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.					
32 18 23 29-0121	LF		Nailer Used To Attach G9 Synthetic Turf	5.46	
32 18 23 29-0122	SF		Removal And Recycling Of Existing Field	3.84	
Note: Includes removal, shipping and recycling of infill, fibers and backing.					
32 18 23 33 Running Track Surfacing (32 18 23)					
32 18 23 33-0001 Running Track Surfacing (32 18 23 33)					
32 18 23 33-0002	SY		2-1/2" Asphaltic Concrete Running Track Surfacing	34.45	
32 18 23 33-0003 Running Track Seal And Colored Surfaces (32 18 23 33)					
32 18 23 33-0004	SY		1 Seal Coat, Striping Of Track	22.16	
Note: Includes certification.					
32 18 23 39 Synthetic Running Track Surfacing (32 18 23)					
32 18 23 39-0001 Synthetic Running Track Surfacing And Striping (32 18 23 39)					
Note: Includes labor, equipment and material required to install the task. Excludes asphalt base.					
32 18 23 39-0002	SY		Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing	88.01	7.85
For >5,500, Deduct				-6.87	
For Up To 4,000, Add				21.85	
32 18 23 39-0003	SY		Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing	110.47	7.85
For >5,500, Deduct				-9.21	
For Up To 4,000, Add				29.32	
For Custom Color Upgrade, Add				7.96	
For Aliphatic Top Coating, Add				15.08	
32 18 23 39-0004	SY		Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing	180.81	7.85
For >5,500, Deduct				-8.45	
For Up To 4,000, Add				49.27	
For Custom Color Upgrade, Add				10.84	
For Aliphatic Top Coating, Add				20.13	
32 18 23 39-0005	SY		Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing	234.98	7.85
For >5,500, Deduct				-10.91	
For Up To 4,000, Add				63.65	
For Custom Color Upgrade, Add				14.18	
For Aliphatic Top Coating, Add				20.73	

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 18	Athletic and Recreational Surfacing



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 39-0006	SY	Latex Binder, Synthetic Running Track Surfacing..... <i>For >5,500, Deduct</i> <i>For Up To 4,000, Add</i>	80.00 -11.60 28.00	
32 18 23 39-0007	SY	Spray Retop Running Tracks..... <i>For Up To 4,000, Add</i> <i>For >5,500, Deduct</i>	70.27 24.59 -6.87	
32 18 23 39-0008	SY	Sandwich Retop Running Tracks..... <i>For Up To 4,000, Add</i> <i>For >5,500, Deduct</i>	136.01 47.60 -14.34	
32 18 23 53 Tennis Court Surfacing (32 18 23)				
32 18 23 53-0001		Tennis Court Surfacing (32 18 23 53) See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002	SY	Tennis Court Bituminous Pavement, 2-1/2" Thick.....	33.95	
32 18 23 53-0003		Tennis Court Markings (32 18 23 53)		
32 18 23 53-0004	EA	Paint Markings On Asphalt Tennis Court 2 Coats.....	664.89	
32 18 23 56 Natural Tennis Court Surfacing (32 18 23)				
32 18 23 56-0001	SY	Clay Tennis Court.....	46.24	
32 18 23 56-0002	SY	Tennis Court, Pulverized Natural Greenstone, Fast Dry..... Note: Includes 4" base.	51.33	
32 18 23 56-0003	SY	Tennis Court, Rubber-Cork Base Resilient Pavement.....	23.03	
32 18 23 56-0004	SY	Resurface Clay Tennis Court.....	13.87	
32 18 23 56-0005	SY	Resurface Tennis Court, Pulverized Natural Greenstone.....	11.87	
32 18 23 56-0006	SY	Resurface Tennis Court, Resilient Pavement.....	9.67	
32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)				
32 18 23 61-0001		100% Acrylic Athletic Surfacing System (Plexipave®) (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002		Surface Preparation For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0003	SY	100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	1.65	
32 18 23 61-0004	SY	Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat..... Note: For previously uncoated portland cement concrete. Applied with broom.	0.82	
32 18 23 61-0005	SY	Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat..... Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.	2.12	
32 18 23 61-0006	SY	Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat..... Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.	93.84	
32 18 23 61-0007		Surface Coatings For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001) Note: Standard color includes dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008	SY	100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	3.37	
		<i>For Pacific Blue, Add</i>	1.21	
		<i>For US Open Blue, Add</i>	1.87	
32 18 23 61-0009	SY	100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	2.76	
		<i>For Pacific Blue, Add</i>	0.87	
		<i>For US Open Blue, Add</i>	1.34	
32 18 23 61-0010	SY	100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat..... Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.	2.41	
		<i>For Pacific Blue, Add</i>	0.67	
		<i>For US Open Blue, Add</i>	1.04	
32 18 23 61-0011	SY	Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat..... Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.	2.40	
		<i>For Pacific Blue, Add</i>	0.81	
		<i>For US Open Or Australian Open Blue, Add</i>	1.32	
		<i>For Pro Purple, Add</i>	2.28	
32 18 23 61-0012		Line Striping For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0013	SY	Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®)..... Note: Textured or non-textured highly reflective line marking paint.	1.63	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Athletic and Recreational Surfing			32 18

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 18 23 61-0014		Cushion Coatings For Athletic Surfing System (Plexipave® Plexicushion®) (32 18 23 61-0001)	
32 18 23 61-0015	SY	Resilient Latex Undercoating Base Coat, Athletic Surfing System (California Products Plexipave® Plexicushion® Base Coat), First Coat Note: Applied with rubber squeegee.	5.12
32 18 23 61-0016	SY	Resilient Latex Undercoating Base Coat, Athletic Surfing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat Note: Applied with rubber squeegee.	6.94
32 18 23 61-0017	SY	Resilient Latex Undercoating Base Coat, Athletic Surfing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat Note: Price per coat for third or additional coats. Applied with rubber squeegee.	5.99
32 18 23 61-0018	SY	Resilient Latex Undercoating, Athletic Surfing System (California Products Plexipave® Plexicushion®), First Coat Note: Applied with rubber squeegee.	4.52
32 18 23 61-0019	SY	Resilient Latex Undercoating, Athletic Surfing System (California Products Plexipave® Plexicushion®), Second Coat Note: Price per coat for second or additional coats. Applied with rubber squeegee.	3.47
32 18 23 61-0020		Resurface Athletic Court (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.	
32 18 23 61-0021	SY	Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster)	2.88

32 30 Site Improvements (32)

32 31 Fences and Gates (32 30)

32 31 11 Gate Operators (32 31)

32 31 11 00-0001		Gate Operators (32 31 11) Note: Excludes gates, electrical connections, access controls and concrete foundation.	
32 31 11 00-0002		Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)	
32 31 11 00-0003		Swing Gate Actuator (DKS™ DoorKing®) (32 31 11 00-0002)	
32 31 11 00-0004		Single Gate, Swing Gate Actuator (32 31 11 00-0003)	
32 31 11 00-0005	EA	Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)	2,362.69 240.16
32 31 11 00-0006	EA	Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)	3,178.39 240.16
		Note: Includes one primary operator with a 14' wide gate capacity.	
32 31 11 00-0007		Dual Gate, Swing Gate Actuator (32 31 11 00-0003)	
32 31 11 00-0008	EA	Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)	4,725.37 480.32
32 31 11 00-0009	EA	Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)	6,356.76 480.32
		Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.	
32 31 11 00-0010		Swing Gate Operators (DKS™ DoorKing®) (32 31 11 00-0002)	
32 31 11 00-0011		Single Gate, Swing Gate Operators (32 31 11 00-0010)	
32 31 11 00-0012	EA	400 Lb. Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050)	4,914.35 240.16
		Note: Includes one primary operator with a 10' wide and 400 Lb. gate capacity.	
32 31 11 00-0013	EA	500 Lb. Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100)	5,353.57 240.16
		Note: Includes one primary operator with a 14' wide and 500 Lb. gate capacity.	
32 31 11 00-0014	EA	700 Lb. Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	7,298.69 240.16
		Note: Includes one primary operator with an 18' wide and 700 Lb. gate capacity.	
		For 208/230/460 Volt AC, Add	322.50
32 31 11 00-0015	EA	800 Lb. Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	8,281.71 240.16
		Note: Includes one primary operator with a 22' wide and 800 Lb. gate capacity.	
		For 208/230/460 Volt AC, Add	322.50
32 31 11 00-0016		Dual Gate, Swing Gate Operators (32 31 11 00-0010)	
32 31 11 00-0017	EA	400 Lb. Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050)	8,678.36 480.32
		Note: Includes one primary and one secondary operator each with a 10' wide and 400 Lb. gate capacity.	
32 31 11 00-0018	EA	500 Lb. Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100)	9,556.80 480.32
		Note: Includes one primary and one secondary operator each with a 14' wide and 500 Lb. gate capacity.	
32 31 11 00-0019	EA	700 Lb. Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	13,426.12 480.32
		Note: Includes one primary and one secondary operator each with an 18' wide and 700 Lb. gate capacity.	
		For 208/230/460 Volt AC, Add	322.50

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0020	EA	800 Lb. Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	15,580.39	480.32
		Note: Includes one primary and one secondary operator each with a 22' wide and 800 Lb. gate capacity. For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0021		Sliding Gate Operators (DKS™ DoorKing®) (32 31 11 00-0002)		
		Note: Includes 20' of chain. See CSI section 32 31 11 00-0030 for additional chain over 20'.		
32 31 11 00-0022	EA	300 Lb. Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050).....	2,212.45	240.16
		Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0023	EA	1,000 Lb. Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100).....	3,095.84	288.19
		Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0024	EA	1,500 Lb. Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150).....	3,830.68	288.19
		Note: Includes operator, chain brackets, hardware and 20' of #40 chain.		
32 31 11 00-0025	EA	3,000 Lb. Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210).....	5,002.76	336.22
		Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0026	EA	2,000 Lb. Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220).....	6,136.52	336.22
		Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0027	EA	5,000 Lb. Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230).....	8,374.12	384.26
		Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0028	EA	5,000 Lb. Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530).....	13,995.66	384.26
		Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0029	EA	10,000 Lb. Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550).....	23,728.67	432.28
		Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0030		Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0002)		
32 31 11 00-0031	EA	Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	753.48	
32 31 11 00-0032	EA	Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	1,463.04	
32 31 11 00-0033	EA	Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	1,028.73	
32 31 11 00-0034	EA	Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	1,103.88	
32 31 11 00-0035	EA	Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	978.39	
32 31 11 00-0036	EA	Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	675.12	
32 31 11 00-0037	LF	#40 Chain For Sliding Gate Operators.....	6.98	
32 31 11 00-0038	LF	#41 Chain For Sliding Gate Operators.....	7.29	
32 31 11 00-0039	LF	#50 Chain For Sliding Gate Operators.....	9.33	
32 31 11 00-0040	LF	#60 Chain For Sliding Gate Operators.....	14.37	
32 31 11 00-0041	EA	Exterior Keypad Gate Operator (Linear AK-11).....	786.87	169.71
32 31 11 00-0042		Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)		
32 31 11 00-0043	EA	Up To 1,500 Lb. Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U).....	3,227.38	294.29
		Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (SS05AL).		
		For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add	218.33	
		For Plug-In Loop Detector Option (Liftmaster LOOPDETLN), Add	156.28	
		For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add	76.96	
		For 10 Watt Solar Panel (Liftmaster SP10W12V), Add	309.35	
		For Each Additional 10' Chain, Add	46.34	
32 31 13		Chain Link Fences and Gates (32 31)		
32 31 13 13		Chain Link Fences and Gates (32 31 13)		
32 31 13 13-0001		Post Holes (32 31 13 13)		
		Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0081 for core drilling in concrete, 02 41 19 13-0219 for core drilling in asphalt.		
32 31 13 13-0002		Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)		
32 31 13 13-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	10.97	
32 31 13 13-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	12.34	
32 31 13 13-0005	VLF	3" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	14.62	
32 31 13 13-0006	VLF	4" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	16.45	
32 31 13 13-0007	VLF	6" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	17.95	
32 31 13 13-0008	VLF	8" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	19.75	
32 31 13 13-0009	VLF	10" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	21.94	
32 31 13 13-0010	VLF	12" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	24.68	
32 31 13 13-0011	VLF	18" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	28.21	
32 31 13 13-0012	VLF	24" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	32.91	
32 31 13 13-0013	VLF	30" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	39.49	
32 31 13 13-0014	VLF	36" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	49.36	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0015 Post Hole In Rock (32 31 13 13-0001)		
32 31 13 13-0016 CF Jackhammer Post Hole In Rock.....	81.54	
32 31 13 13-0017 CF Rock Drill Post Hole In Rock.....	23.72	
32 31 13 13-0018 Fill For Post Holes (32 31 13 13-0001)		
See CSI section 03 21 00 00-0000 for reinforcing steel.		
32 31 13 13-0019 Concrete Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0020 VLF Up To 2-1/2" Diameter, Concrete Fill For Post Hole.....	6.36	
32 31 13 13-0021 VLF 2-1/2" Diameter, Concrete Fill For Post Hole.....	8.17	
32 31 13 13-0022 VLF 3" Diameter, Concrete Fill For Post Hole.....	9.00	
32 31 13 13-0023 VLF 4" Diameter, Concrete Fill For Post Hole.....	10.34	
32 31 13 13-0024 VLF 6" Diameter, Concrete Fill For Post Hole.....	14.59	
32 31 13 13-0025 VLF 8" Diameter, Concrete Fill For Post Hole.....	19.47	
32 31 13 13-0026 VLF 10" Diameter, Concrete Fill For Post Hole.....	23.81	
32 31 13 13-0027 VLF 12" Diameter, Concrete Fill For Post Hole.....	27.76	
32 31 13 13-0028 VLF 18" Diameter, Concrete Fill For Post Hole.....	37.82	
32 31 13 13-0029 VLF 24" Diameter, Concrete Fill For Post Hole.....	46.92	
32 31 13 13-0030 VLF 30" Diameter, Concrete Fill For Post Hole.....	55.80	
32 31 13 13-0031 VLF 36" Diameter, Concrete Fill For Post Hole.....	65.01	
32 31 13 13-0032 Grout Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0033 VLF Up To 2-1/2" Diameter, Grout Fill For Post Hole.....	7.54	
32 31 13 13-0034 VLF 2-1/2" Diameter, Grout Fill For Post Hole.....	9.71	
32 31 13 13-0035 VLF 3" Diameter, Grout Fill For Post Hole.....	10.57	
32 31 13 13-0036 VLF 4" Diameter, Grout Fill For Post Hole.....	11.89	
32 31 13 13-0037 VLF 6" Diameter, Grout Fill For Post Hole.....	16.61	
32 31 13 13-0038 VLF 8" Diameter, Grout Fill For Post Hole.....	22.16	
32 31 13 13-0039 VLF 10" Diameter, Grout Fill For Post Hole.....	27.00	
32 31 13 13-0040 VLF 12" Diameter, Grout Fill For Post Hole.....	31.34	
32 31 13 13-0041 VLF 18" Diameter, Grout Fill For Post Hole.....	41.90	
32 31 13 13-0042 VLF 24" Diameter, Grout Fill For Post Hole.....	51.21	
32 31 13 13-0043 VLF 30" Diameter, Grout Fill For Post Hole.....	60.20	
32 31 13 13-0044 VLF 36" Diameter, Grout Fill For Post Hole.....	69.43	
32 31 13 13-0045 Compacted Earth Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0046 VLF Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	5.34	
32 31 13 13-0047 VLF 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	6.96	
32 31 13 13-0048 VLF 3" Diameter, Compacted Earth Fill For Post Hole.....	7.27	
32 31 13 13-0049 VLF 4" Diameter, Compacted Earth Fill For Post Hole.....	7.49	
32 31 13 13-0050 VLF 6" Diameter, Compacted Earth Fill For Post Hole.....	10.01	
32 31 13 13-0051 VLF 8" Diameter, Compacted Earth Fill For Post Hole.....	13.34	
32 31 13 13-0052 VLF 10" Diameter, Compacted Earth Fill For Post Hole.....	16.01	
32 31 13 13-0053 VLF 12" Diameter, Compacted Earth Fill For Post Hole.....	18.15	
32 31 13 13-0054 VLF 18" Diameter, Compacted Earth Fill For Post Hole.....	22.11	
32 31 13 13-0055 VLF 24" Diameter, Compacted Earth Fill For Post Hole.....	24.82	
32 31 13 13-0056 VLF 30" Diameter, Compacted Earth Fill For Post Hole.....	27.21	
32 31 13 13-0057 VLF 36" Diameter, Compacted Earth Fill For Post Hole.....	29.36	
32 31 13 13-0058 Fence Posts (32 31 13 13)		
Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0059 Fence Posts (32 31 13 13-0058)		
32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059)		
Note: Includes cap and accessories.		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length.....	24.56	3.83
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length.....	23.47	3.26
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length.....	22.14	2.69
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0064 LF 1-7/8" Galvanized H-beam Post, 16' To 20' In Length.....	21.08	2.12
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0065 LF 1-7/8" Galvanized H-beam Post, 21' To 24' In Length.....	20.36	1.84
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0066 LF 1-7/8" Galvanized H-beam Post, >24' In Length.....	19.26	1.27
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059)		
Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0068 LF Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	16.79	3.54
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.43	
For Vinyl Coated, Add	5.82	
For Powder Coated, Add	7.76	
For Aluminum Coated, Add	12.13	
For Schedule 20, Deduct	-1.94	
For Schedule 80, Add	5.37	
32 31 13 13-0069 LF 7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	15.59	2.98
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.40	
For Vinyl Coated, Add	5.75	
For Powder Coated, Add	7.67	
For Aluminum Coated, Add	11.99	
For Schedule 20, Deduct	-1.92	
For Schedule 80, Add	5.20	
32 31 13 13-0070 LF 11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	14.31	2.41
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.38	
For Vinyl Coated, Add	5.72	
For Powder Coated, Add	7.62	
For Aluminum Coated, Add	11.91	
For Schedule 20, Deduct	-1.91	
For Schedule 80, Add	5.05	
32 31 13 13-0071 LF 16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	13.33	1.84
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.38	
For Vinyl Coated, Add	5.70	
For Powder Coated, Add	7.60	
For Aluminum Coated, Add	11.88	
For Schedule 20, Deduct	-1.90	
For Schedule 80, Add	4.94	
32 31 13 13-0072 LF 21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	12.69	1.56
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.37	
For Vinyl Coated, Add	5.69	
For Powder Coated, Add	7.59	
For Aluminum Coated, Add	11.86	
For Schedule 20, Deduct	-1.90	
For Schedule 80, Add	4.88	
32 31 13 13-0073 LF >24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	11.98	1.27
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.37	
For Vinyl Coated, Add	5.69	
For Powder Coated, Add	7.58	
For Aluminum Coated, Add	11.85	
For Schedule 20, Deduct	-1.90	
For Schedule 80, Add	4.80	
32 31 13 13-0074 Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059)		
Note: 2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0075 LF 2" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	19.21	3.69
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.97	
For Vinyl Coated, Add	7.12	
For Powder Coated, Add	9.50	
For Aluminum Coated, Add	14.84	
For Schedule 20, Deduct	-2.37	
For Schedule 80, Add	6.43	
32 31 13 13-0076 LF 2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	18.08	3.12
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.93	
For Vinyl Coated, Add	7.03	
For Powder Coated, Add	9.38	
For Aluminum Coated, Add	14.65	
For Schedule 20, Deduct	-2.34	
For Schedule 80, Add	6.26	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0077 LF 2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	16.71	2.56
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.91	
For Vinyl Coated, Add	6.99	
For Powder Coated, Add	9.32	
For Aluminum Coated, Add	14.56	
For Schedule 20, Deduct	-2.33	
For Schedule 80, Add	6.10	
32 31 13 13-0078 LF 2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	15.67	1.99
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.90	
For Vinyl Coated, Add	6.97	
For Powder Coated, Add	9.29	
For Aluminum Coated, Add	14.51	
For Schedule 20, Deduct	-2.32	
For Schedule 80, Add	5.98	
32 31 13 13-0079 LF 2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	14.96	1.70
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.90	
For Vinyl Coated, Add	6.95	
For Powder Coated, Add	9.27	
For Aluminum Coated, Add	14.49	
For Schedule 20, Deduct	-2.32	
For Schedule 80, Add	5.90	
32 31 13 13-0080 LF 2" Outside Diameter Galvanized Steel Post, >24' In Length	14.34	1.42
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.90	
For Vinyl Coated, Add	6.95	
For Powder Coated, Add	9.27	
For Aluminum Coated, Add	14.49	
For Schedule 20, Deduct	-2.32	
For Schedule 80, Add	5.84	
32 31 13 13-0081 Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059)		
Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0082 LF 2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	23.44	3.98
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.93	
For Vinyl Coated, Add	9.42	
For Powder Coated, Add	12.56	
For Aluminum Coated, Add	19.63	
For Schedule 20, Deduct	-3.14	
For Schedule 80, Add	8.31	
32 31 13 13-0083 LF 2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	22.18	3.41
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.88	
For Vinyl Coated, Add	9.32	
For Powder Coated, Add	12.42	
For Aluminum Coated, Add	19.41	
For Schedule 20, Deduct	-3.11	
For Schedule 80, Add	8.12	
32 31 13 13-0084 LF 2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	20.77	2.69
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.86	
For Vinyl Coated, Add	9.27	
For Powder Coated, Add	12.36	
For Aluminum Coated, Add	19.31	
For Schedule 20, Deduct	-3.09	
For Schedule 80, Add	7.95	
32 31 13 13-0085 LF 2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	19.66	2.12
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.85	
For Vinyl Coated, Add	9.24	
For Powder Coated, Add	12.32	
For Aluminum Coated, Add	19.25	
For Schedule 20, Deduct	-3.08	
For Schedule 80, Add	7.82	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0086 LF 2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length.....	18.92	1.84
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.85	
For Vinyl Coated, Add	9.23	
For Powder Coated, Add	12.30	
For Aluminum Coated, Add	19.23	
For Schedule 20, Deduct	-3.08	
For Schedule 80, Add	7.74	
32 31 13 13-0087 LF 2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length.....	18.25	1.42
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.85	
For Vinyl Coated, Add	9.23	
For Powder Coated, Add	12.30	
For Aluminum Coated, Add	19.23	
For Schedule 20, Deduct	-3.08	
For Schedule 80, Add	7.67	
32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) (32 31 13 13-0059)		
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0089 LF 3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	32.22	4.26
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.93	
For Vinyl Coated, Add	14.23	
For Powder Coated, Add	18.97	
For Aluminum Coated, Add	29.64	
For Schedule 20, Deduct	-4.74	
For Schedule 80, Add	12.23	
32 31 13 13-0090 LF 3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	30.70	3.69
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.84	
For Vinyl Coated, Add	14.02	
For Powder Coated, Add	18.69	
For Aluminum Coated, Add	29.20	
For Schedule 20, Deduct	-4.67	
For Schedule 80, Add	11.95	
32 31 13 13-0091 LF 3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	29.10	2.98
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.80	
For Vinyl Coated, Add	13.91	
For Powder Coated, Add	18.55	
For Aluminum Coated, Add	28.99	
For Schedule 20, Deduct	-4.64	
For Schedule 80, Add	11.72	
32 31 13 13-0092 LF 3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	27.83	2.41
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.78	
For Vinyl Coated, Add	13.86	
For Powder Coated, Add	18.48	
For Aluminum Coated, Add	28.88	
For Schedule 20, Deduct	-4.62	
For Schedule 80, Add	11.56	
32 31 13 13-0093 LF 3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	27.00	1.99
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.77	
For Vinyl Coated, Add	13.84	
For Powder Coated, Add	18.45	
For Aluminum Coated, Add	28.83	
For Schedule 20, Deduct	-4.61	
For Schedule 80, Add	11.46	
32 31 13 13-0094 LF 3" Outside Diameter Galvanized Steel Post, >24' In Length	26.25	1.56
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	5.76	
For Vinyl Coated, Add	13.83	
For Powder Coated, Add	18.44	
For Aluminum Coated, Add	28.81	
For Schedule 20, Deduct	-4.61	
For Schedule 80, Add	11.38	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0095			Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) (32 31 13 13-0095) Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0096	LF		4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	47.65	4.54
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.67	
			For Vinyl Coated, Add	23.21	
			For Powder Coated, Add	30.95	
			For Aluminum Coated, Add	48.36	
			For Schedule 20, Deduct	-7.74	
			For Schedule 80, Add	19.47	
32 31 13 13-0097	LF		4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	45.52	3.69
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.52	
			For Vinyl Coated, Add	22.84	
			For Powder Coated, Add	30.45	
			For Aluminum Coated, Add	47.58	
			For Schedule 20, Deduct	-7.61	
			For Schedule 80, Add	19.01	
32 31 13 13-0098	LF		4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	43.97	3.12
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.44	
			For Vinyl Coated, Add	22.65	
			For Powder Coated, Add	30.20	
			For Aluminum Coated, Add	47.19	
			For Schedule 20, Deduct	-7.55	
			For Schedule 80, Add	18.74	
32 31 13 13-0099	LF		4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	42.57	2.56
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.40	
			For Vinyl Coated, Add	22.55	
			For Powder Coated, Add	30.07	
			For Aluminum Coated, Add	46.99	
			For Schedule 20, Deduct	-7.52	
			For Schedule 80, Add	18.54	
32 31 13 13-0100	LF		4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	42.49	2.56
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.38	
			For Vinyl Coated, Add	22.51	
			For Powder Coated, Add	30.01	
			For Aluminum Coated, Add	46.89	
			For Schedule 20, Deduct	-7.50	
			For Schedule 80, Add	18.50	
32 31 13 13-0101	LF		4" Outside Diameter Galvanized Steel Post, >24' In Length	41.03	1.84
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	9.37	
			For Vinyl Coated, Add	22.49	
			For Powder Coated, Add	29.99	
			For Aluminum Coated, Add	46.86	
			For Schedule 20, Deduct	-7.50	
			For Schedule 80, Add	18.35	
32 31 13 13-0102			Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) (32 31 13 13-0102) Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0103	LF		6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	94.63	4.96
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	21.17	
			For Vinyl Coated, Add	50.80	
			For Powder Coated, Add	67.74	
			For Aluminum Coated, Add	105.84	
			For Schedule 20, Deduct	-16.93	
			For Schedule 80, Add	41.64	
32 31 13 13-0104	LF		6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	90.63	4.11
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	20.57	
			For Vinyl Coated, Add	49.37	
			For Powder Coated, Add	65.82	
			For Aluminum Coated, Add	102.65	
			For Schedule 20, Deduct	-16.46	
			For Schedule 80, Add	40.33	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0105	LF	6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	88.01	3.41
		For Each Top Rail Fitting, Add	4.55	
		For Each Single Barbed Wire Arm, Add	7.15	
		For Each Double Barbed Wire Arm, Add	14.95	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	20.27	
		For Vinyl Coated, Add	48.65	
		For Powder Coated, Add	64.87	
		For Aluminum Coated, Add	101.36	
		For Schedule 20, Deduct	-16.22	
		For Schedule 80, Add	39.62	
32 31 13 13-0106	LF	6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	86.02	2.69
		For Each Top Rail Fitting, Add	4.55	
		For Each Single Barbed Wire Arm, Add	7.15	
		For Each Double Barbed Wire Arm, Add	14.95	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	20.12	
		For Vinyl Coated, Add	48.29	
		For Powder Coated, Add	64.39	
		For Aluminum Coated, Add	100.61	
		For Schedule 20, Deduct	-16.10	
		For Schedule 80, Add	39.19	
32 31 13 13-0107	LF	6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	84.93	2.41
		For Each Top Rail Fitting, Add	4.55	
		For Each Single Barbed Wire Arm, Add	7.15	
		For Each Double Barbed Wire Arm, Add	14.95	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	20.05	
		For Vinyl Coated, Add	48.12	
		For Powder Coated, Add	64.16	
		For Aluminum Coated, Add	100.25	
		For Schedule 20, Deduct	-16.04	
		For Schedule 80, Add	38.97	
32 31 13 13-0108	LF	6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	84.08	1.99
		For Each Top Rail Fitting, Add	4.55	
		For Each Single Barbed Wire Arm, Add	7.15	
		For Each Double Barbed Wire Arm, Add	14.95	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	20.04	
		For Vinyl Coated, Add	48.08	
		For Powder Coated, Add	64.11	
		For Aluminum Coated, Add	100.18	
		For Schedule 20, Deduct	-16.03	
		For Schedule 80, Add	38.86	
32 31 13 13-0109		Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) (32 31 13 13-0059)		
		Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0110	LF	8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	184.18	5.53
		For Each Top Rail Fitting, Add	7.50	
		For Each Single Barbed Wire Arm, Add	9.15	
		For Each Double Barbed Wire Arm, Add	18.95	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	43.28	
		For Vinyl Coated, Add	103.88	
		For Powder Coated, Add	138.50	
		For Aluminum Coated, Add	216.41	
		For Schedule 20, Deduct	-34.63	
		For Schedule 80, Add	84.21	
32 31 13 13-0111	LF	8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	177.63	4.68
		For Each Top Rail Fitting, Add	7.50	
		For Each Single Barbed Wire Arm, Add	9.15	
		For Each Double Barbed Wire Arm, Add	18.95	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	42.10	
		For Vinyl Coated, Add	101.03	
		For Powder Coated, Add	134.70	
		For Aluminum Coated, Add	210.48	
		For Schedule 20, Deduct	-33.68	
		For Schedule 80, Add	81.75	
32 31 13 13-0112	LF	8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	173.68	3.83
		For Each Top Rail Fitting, Add	7.50	
		For Each Single Barbed Wire Arm, Add	9.15	
		For Each Double Barbed Wire Arm, Add	18.95	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	41.50	
		For Vinyl Coated, Add	99.61	
		For Powder Coated, Add	132.81	
		For Aluminum Coated, Add	207.51	
		For Schedule 20, Deduct	-33.20	
		For Schedule 80, Add	80.45	
32 31 13 13-0113	LF	8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	170.91	2.98
		For Each Top Rail Fitting, Add	7.50	
		For Each Single Barbed Wire Arm, Add	9.15	
		For Each Double Barbed Wire Arm, Add	18.95	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	41.21	
		For Vinyl Coated, Add	98.90	
		For Powder Coated, Add	131.86	
		For Aluminum Coated, Add	206.04	
		For Schedule 20, Deduct	-32.97	
		For Schedule 80, Add	79.73	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0114	LF	8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	169.48 7.50 9.15 18.95 41.06 98.54 131.38 205.29 -32.85 79.36	2.56
32 31 13	13-0115	LF	8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	168.50 7.50 9.15 18.95 41.03 98.47 131.29 205.14 -32.82 79.21	2.12
32 31 13	13-0116		Driven Post Supports (32 31 13 13) Note: OZ-Post.		
32 31 13	13-0117		Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)		
32 31 13	13-0118	EA	26" Driven Post Support For 1-5/8" Round Chain Link Fence Post..... Note: OZ-Post GB-700.	96.78	
32 31 13	13-0119	EA	26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post..... Note: OZ-Post HB-700.	96.78	
32 31 13	13-0120	EA	26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post IS-600.	99.58	
32 31 13	13-0121	EA	32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post ISW-850.	119.22	
32 31 13	13-0122		Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)		
32 31 13	13-0123	EA	34" Driven Post Support For 1-3/4" Square Ornamental Fence Post..... Note: OZ-Post C175-850.	110.80	
32 31 13	13-0124	EA	24" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-600.	106.60	
32 31 13	13-0125	EA	34" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-850.	111.65	
32 31 13	13-0126	EA	34" Driven Post Support For 2-1/2" Square Ornamental Fence Post..... Note: OZ-Post I25-850.	119.22	
32 31 13	13-0127	EA	34" Driven Post Support For 3" Square Ornamental Fence Post..... Note: OZ-Post I3-850.	119.22	
32 31 13	13-0128		Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)		
32 31 13	13-0129	EA	24" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-600.	111.72	
32 31 13	13-0130	EA	34" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-850.	115.01	
32 31 13	13-0131	EA	34" Driven Post Support For 3-3/4" Square Wooden Fence Post..... Note: OZ-Post C4-850.	124.82	
32 31 13	13-0132	EA	34" Driven Post Support For 4" Square Wooden Fence Post..... Note: OZ-Post P4-850.	124.83	
32 31 13	13-0133	EA	36" Driven Post Support For 4" x 6" Wooden Fence Post..... Note: OZ-Post T46-850.	143.06	
32 31 13	13-0134	EA	36" Driven Post Support For 6" Square Wooden Fence Post..... Note: OZ-Post T6-850.	155.96	
32 31 13	13-0135		Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)		
32 31 13	13-0136	EA	24" Driven Post Support For 3-1/2" Square Vinyl Fence Post..... Note: OZ-Post T4-600.	111.72	
32 31 13	13-0137	EA	34" Driven Post Support For 3-1/2" Square Vinyl Fence Post..... Note: OZ-Post T4-850.	115.01	
32 31 13	13-0138	EA	34" Driven Post Support For 4" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	124.83	
32 31 13	13-0139	EA	34" Driven Post Support For 5" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	127.07	
32 31 13	13-0140		Chain Link Fence Assemblies (32 31 13 13)		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0141		Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13 13-0140) Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 26 05 26 00-0000 for grounding, 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0684 for barb wire attachments.			
32 31 13 13-0142		Galvanized (32 31 13 13-0141)			
32 31 13 13-0143	LF	3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	48.90		4.83
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.39		
		For 13 Gauge Fabric, Deduct	-10.43		
		For 11 Gauge Fabric, Deduct	-6.09		
		For 6 Gauge Fabric, Add	9.57		
		For 1" Mesh Fabric, Add	13.05		
		For 1-3/4" Mesh Fabric, Add	5.22		
		For 2-1/8" Mesh Fabric, Deduct	-2.61		
		For 2-3/8" Mesh Fabric, Deduct	-3.48		
		For Posts 8' On Centers, Add	2.67		
		For Posts 5' On Centers, Add	10.03		
		For 3/8" Non-Climbable Mesh, Add	34.16		
		For Up To 100, Add	9.22		
		For >100 To 250, Add	3.39		
		For >2,500 To 5,000, Deduct	-1.69		
		For >5,000, Deduct	-3.39		
32 31 13 13-0144	LF	3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	50.76		4.83
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.50		
		For 13 Gauge Fabric, Deduct	-10.97		
		For 11 Gauge Fabric, Deduct	-6.41		
		For 6 Gauge Fabric, Add	10.07		
		For 1" Mesh Fabric, Add	13.73		
		For 1-3/4" Mesh Fabric, Add	5.49		
		For 2-1/8" Mesh Fabric, Deduct	-2.75		
		For 2-3/8" Mesh Fabric, Deduct	-3.66		
		For Posts 8' On Centers, Add	2.77		
		For Posts 5' On Centers, Add	10.38		
		For 3/8" Non-Climbable Mesh, Add	39.14		
		For Up To 100, Add	9.53		
		For >100 To 250, Add	3.50		
		For >2,500 To 5,000, Deduct	-1.75		
		For >5,000, Deduct	-3.50		
32 31 13 13-0145	LF	4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	52.39		4.83
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.59		
		For 13 Gauge Fabric, Deduct	-11.43		
		For 11 Gauge Fabric, Deduct	-6.68		
		For 6 Gauge Fabric, Add	10.49		
		For 1" Mesh Fabric, Add	14.31		
		For 1-3/4" Mesh Fabric, Add	5.72		
		For 2-1/8" Mesh Fabric, Deduct	-2.86		
		For 2-3/8" Mesh Fabric, Deduct	-3.82		
		For Posts 8' On Centers, Add	2.85		
		For Posts 5' On Centers, Add	10.70		
		For 3/8" Non-Climbable Mesh, Add	44.17		
		For Up To 100, Add	9.81		
		For >100 To 250, Add	3.59		
		For >2,500 To 5,000, Deduct	-1.80		
		For >5,000, Deduct	-3.59		
32 31 13 13-0146	LF	5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	56.17		4.83
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.81		
		For 13 Gauge Fabric, Deduct	-12.53		
		For 11 Gauge Fabric, Deduct	-7.32		
		For 6 Gauge Fabric, Add	11.50		
		For 1" Mesh Fabric, Add	15.69		
		For 1-3/4" Mesh Fabric, Add	6.27		
		For 2-1/8" Mesh Fabric, Deduct	-3.14		
		For 2-3/8" Mesh Fabric, Deduct	-4.18		
		For Posts 8' On Centers, Add	3.05		
		For Posts 5' On Centers, Add	11.42		
		For 3/8" Non-Climbable Mesh, Add	53.52		
		For Up To 100, Add	10.44		
		For >100 To 250, Add	3.81		
		For >2,500 To 5,000, Deduct	-1.91		
		For >5,000, Deduct	-3.81		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0147	LF	6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For 3/8" Non-Climbable Mesh, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	60.67 4.10 -13.64 -7.97 12.52 17.07 6.83 -3.41 -4.55 3.29 12.31 62.95 11.24 4.10 -2.05 -4.10	4.83
32 31 13	13-0148	LF	7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For 3/8" Non-Climbable Mesh, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	62.82 4.25 -14.11 -8.24 12.95 17.66 7.06 -3.53 -4.71 3.41 12.75 72.55 11.65 4.25 -2.13 -4.25	7.24
32 31 13	13-0149	LF	8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For 3/8" Non-Climbable Mesh, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	71.13 4.74 -16.49 -9.63 15.14 20.64 8.26 -4.13 -5.50 3.84 14.34 82.24 13.04 4.74 -2.37 -4.74	8.44
32 31 13	13-0150	LF	9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For 3/8" Non-Climbable Mesh, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	75.70 5.03 -17.69 -10.33 16.24 22.14 8.86 -4.43 -5.90 4.08 15.24 90.65 13.84 5.03 -2.51 -5.03	10.85
32 31 13	13-0151	LF	10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For 3/8" Non-Climbable Mesh, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	80.28 5.31 -18.89 -11.03 17.34 23.64 9.46 -4.73 -6.30 4.33 16.14 99.36 14.64 5.31 -2.66 -5.31	12.06

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
32 31 13 13-0152	LF	12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post		88.90	14.47
		For Each Additional Foot >12, Add		4.56	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		5.85	
		For 13 Gauge Fabric, Deduct		-21.13	
		For 11 Gauge Fabric, Deduct		-12.34	
		For 6 Gauge Fabric, Add		19.40	
		For 1" Mesh Fabric, Add		26.45	
		For 1-3/4" Mesh Fabric, Add		10.58	
		For 2-1/8" Mesh Fabric, Deduct		-5.29	
		For 2-3/8" Mesh Fabric, Deduct		-7.05	
		For Posts 8' On Centers, Add		4.78	
		For Posts 5' On Centers, Add		17.83	
		For 3/8" Non-Climbable Mesh, Add		107.77	
		For Up To 100, Add		16.15	
		For >100 To 250, Add		5.85	
		For >2,500 To 5,000, Deduct		-2.93	
		For >5,000, Deduct		-5.85	
32 31 13 13-0153		Vinyl Coated (32 31 13 13-0141)			
32 31 13 13-0154	LF	4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post		54.11	4.83
		For Powder Coated Framework (Posts, Rails, Hardware), Add		5.19	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		3.68	
		For 13 Gauge Fabric, Deduct		-12.03	
		For 11 Gauge Fabric, Deduct		-7.03	
		For 6 Gauge Fabric, Add		11.04	
		For 1" Mesh Fabric, Add		15.06	
		For 1-3/4" Mesh Fabric, Add		6.02	
		For 2-1/8" Mesh Fabric, Deduct		-3.01	
		For 2-3/8" Mesh Fabric, Deduct		-4.01	
		For Posts 8' On Centers, Add		2.94	
		For Posts 5' On Centers, Add		11.01	
		For 3/8" Non-Climbable Mesh, Add		49.44	
		For Up To 100, Add		10.07	
		For >100 To 250, Add		3.68	
		For >2,500 To 5,000, Deduct		-1.84	
		For >5,000, Deduct		-3.68	
32 31 13 13-0155	LF	5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post		58.33	4.83
		For Powder Coated Framework (Posts, Rails, Hardware), Add		5.73	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		3.92	
		For 13 Gauge Fabric, Deduct		-13.28	
		For 11 Gauge Fabric, Deduct		-7.76	
		For 6 Gauge Fabric, Add		12.19	
		For 1" Mesh Fabric, Add		16.63	
		For 1-3/4" Mesh Fabric, Add		6.65	
		For 2-1/8" Mesh Fabric, Deduct		-3.33	
		For 2-3/8" Mesh Fabric, Deduct		-4.43	
		For Posts 8' On Centers, Add		3.16	
		For Posts 5' On Centers, Add		11.81	
		For 3/8" Non-Climbable Mesh, Add		60.11	
		For Up To 100, Add		10.76	
		For >100 To 250, Add		3.92	
		For >2,500 To 5,000, Deduct		-1.96	
		For >5,000, Deduct		-3.92	
32 31 13 13-0156	LF	6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post		65.07	4.83
		For Powder Coated Framework (Posts, Rails, Hardware), Add		6.55	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add		4.32	
		For 13 Gauge Fabric, Deduct		-15.17	
		For 11 Gauge Fabric, Deduct		-8.86	
		For 6 Gauge Fabric, Add		13.92	
		For 1" Mesh Fabric, Add		18.99	
		For 1-3/4" Mesh Fabric, Add		7.60	
		For 2-1/8" Mesh Fabric, Deduct		-3.80	
		For 2-3/8" Mesh Fabric, Deduct		-5.06	
		For Posts 8' On Centers, Add		3.51	
		For Posts 5' On Centers, Add		13.10	
		For 3/8" Non-Climbable Mesh, Add		70.84	
		For Up To 100, Add		11.90	
		For >100 To 250, Add		4.32	
		For >2,500 To 5,000, Deduct		-2.16	
		For >5,000, Deduct		-4.32	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0157	LF		7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For 3/8" Non-Climbable Mesh, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	67.93 6.86 4.51 -15.88 -9.28 14.58 19.88 7.95 -3.98 -5.30 3.66 13.67 81.76 12.41 4.51 -2.25 -4.51	7.24
32 31 13 13-0158	LF		8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For 3/8" Non-Climbable Mesh, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	77.09 8.01 5.04 -18.56 -10.84 17.04 23.23 9.29 -4.65 -6.20 4.14 15.42 92.77 13.93 5.04 -2.52 -5.04	8.44
32 31 13 13-0159	LF		9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For 3/8" Non-Climbable Mesh, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	82.10 8.60 5.35 -19.91 -11.63 18.28 24.93 9.97 -4.99 -6.65 4.40 16.39 102.36 14.80 5.35 -2.67 -5.35	10.85
32 31 13 13-0160	LF		10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For 3/8" Non-Climbable Mesh, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	87.11 9.18 5.65 -21.26 -12.42 19.52 26.61 10.65 -5.32 -7.10 4.67 17.37 112.27 15.66 5.65 -2.83 -5.65	12.06

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	94.91		14.47
		For Each Additional Foot >12, Add	4.81		
		For Powder Coated Framework (Posts, Rails, Hardware), Add	10.02		
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	6.15		
		For 13 Gauge Fabric, Deduct	-23.22		
		For 11 Gauge Fabric, Deduct	-13.56		
		For 6 Gauge Fabric, Add	21.31		
		For 1" Mesh Fabric, Add	29.06		
		For 1-3/4" Mesh Fabric, Add	11.62		
		For 2-1/8" Mesh Fabric, Deduct	-5.81		
		For 2-3/8" Mesh Fabric, Deduct	-7.75		
		For Posts 8' On Centers, Add	5.08		
		For Posts 5' On Centers, Add	18.91		
		For 3/8" Non-Climbable Mesh, Add	121.76		
		For Up To 100, Add	17.05		
		For >100 To 250, Add	6.15		
		For >2,500 To 5,000, Deduct	-3.08		
		For >5,000, Deduct	-6.15		
32 31 13 13-0162		Rails (32 31 13 13)			
		Note: Includes rail end fittings.			
32 31 13 13-0163		SS-20 Chain Link Fence Rails (32 31 13 13-0162)			
		Note: Includes tie wires.			
32 31 13 13-0164	LF	1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	9.20		1.56
		For SS15, Deduct	-0.59		
		For SS40, Add	1.49		
32 31 13 13-0165	LF	1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	11.20		1.56
		For SS40, Add	0.79		
		For Powder Coated, Add	1.59		
		For Aluminum Coated, Add	3.18		
32 31 13 13-0166	LF	1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	11.45		1.78
		For SS15, Deduct	-0.79		
		For SS40, Add	1.98		
32 31 13 13-0167	LF	1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	14.12		1.78
		For SS40, Add	1.06		
		For Powder Coated, Add	2.12		
		For Aluminum Coated, Add	4.23		
32 31 13 13-0168	LF	2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	13.48		1.99
		For SS40, Add	2.38		
32 31 13 13-0169	LF	2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	16.68		1.99
		For SS40, Add	1.27		
		For Powder Coated, Add	2.54		
		For Aluminum Coated, Add	5.08		
32 31 13 13-0170		SS-20 Middle/Bottom Rail With Tie Wire (1.66" Nominal) (32 31 13 13-0162)			
32 31 13 13-0171	LF	1-5/8" Galvanized Steel Fence Rail, Tie Wire And Fittings.....	12.10		1.56
		For SS40, Add	2.14		
32 31 13 13-0172	LF	1-5/8" Vinyl Coated Fence Rail, Tie Wires And Fittings.....	14.77		1.56
		For SS40, Add	1.12		
		For Powder Coated, Add	2.25		
		For Aluminum Coated, Add	4.49		
32 31 13 13-0173		Fabric (32 31 13 13)			
32 31 13 13-0174		Fabric, Galvanized Chain Link (32 31 13 13-0173)			
32 31 13 13-0175	LF	3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	13.45		2.84
		For 1-1/4" Mesh Fabric, Add	1.18		
		For 2 Oz Galvanized Or Zinc Coating, Add	1.06		
		For 13 Gauge Fabric, Deduct	-1.90		
		For 11 Gauge Fabric, Deduct	-1.06		
		For 6 Gauge Fabric, Add	3.38		
		For 1" Mesh Fabric, Add	3.17		
		For 1-1/4" Mesh Fabric, Add	2.12		
		For 1-3/4" Mesh Fabric, Add	1.27		
		For 2-1/8" Mesh Fabric, Deduct	-0.63		
		For 2-3/8" Mesh Fabric, Deduct	-0.85		
		For 3/8" Non-Climbable Mesh, Add	35.54		
32 31 13 13-0176	LF	3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	14.86		3.20
		For 1-1/4" Mesh Fabric, Add	1.38		
		For 2 Oz Galvanized Or Zinc Coating, Add	1.23		
		For 13 Gauge Fabric, Deduct	-2.22		
		For 11 Gauge Fabric, Deduct	-1.23		
		For 6 Gauge Fabric, Add	3.94		
		For 1" Mesh Fabric, Add	3.70		
		For 1-1/4" Mesh Fabric, Add	2.47		
		For 1-3/4" Mesh Fabric, Add	1.48		
		For 2-1/8" Mesh Fabric, Deduct	-0.74		
		For 2-3/8" Mesh Fabric, Deduct	-0.99		
		For 3/8" Non-Climbable Mesh, Add	40.62		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0177	LF 4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh..... For 1-1/4" Mesh Fabric, Add For 2 Oz Galvanized Or Zinc Coating, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For 3/8" Non-Climbable Mesh, Add	16.06 1.52 1.36 -2.44 -1.36 4.34 4.07 2.71 1.63 -0.81 -1.08 45.76	3.54
32 31	13	13-0178	LF 5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh..... For 1-1/4" Mesh Fabric, Add For 2 Oz Galvanized Or Zinc Coating, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For 3/8" Non-Climbable Mesh, Add	18.11 1.89 1.69 -3.04 -1.69 5.41 5.07 3.38 2.03 -1.01 -1.35 55.22	4.26
32 31	13	13-0179	LF 6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh..... For 1-1/4" Mesh Fabric, Add For 2 Oz Galvanized Or Zinc Coating, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For 3/8" Non-Climbable Mesh, Add	20.29 2.28 2.03 -3.66 -2.03 6.50 6.10 4.07 2.44 -1.22 -1.63 64.79	4.96
32 31	13	13-0180	LF 7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh..... For 1-1/4" Mesh Fabric, Add For 2 Oz Galvanized Or Zinc Coating, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For 3/8" Non-Climbable Mesh, Add	22.56 2.65 2.37 -4.26 -2.37 7.57 7.10 4.73 2.84 -1.42 -1.89 74.51	5.68
32 31	13	13-0181	LF 8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh..... For 1-1/4" Mesh Fabric, Add For 2 Oz Galvanized Or Zinc Coating, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For 3/8" Non-Climbable Mesh, Add	25.02 3.03 2.71 -4.87 -2.71 8.66 8.12 5.42 3.25 -1.62 -2.17 84.38	7.09
32 31	13	13-0182	LF 10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh..... For 1-1/4" Mesh Fabric, Add For 2 Oz Galvanized Or Zinc Coating, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For 3/8" Non-Climbable Mesh, Add	29.71 3.94 3.52 -6.33 -3.52 11.25 10.55 7.03 4.22 -2.11 -2.81 101.71	7.80
32 31	13	13-0183	LF 12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh..... For 1-1/4" Mesh Fabric, Add For 2 Oz Galvanized Or Zinc Coating, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For 3/8" Non-Climbable Mesh, Add	33.88 4.72 4.21 -7.58 -4.21 13.48 12.64 8.43 5.06 -2.53 -3.37 110.33	8.51

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0184	LF	14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	37.97	9.93
		For 1-1/4" Mesh Fabric, Add	5.07	
		For 2 Oz Galvanized Or Zinc Coating, Add	4.53	
		For 13 Gauge Fabric, Deduct	-8.15	
		For 11 Gauge Fabric, Deduct	-4.53	
		For 6 Gauge Fabric, Add	14.48	
		For 1" Mesh Fabric, Add	13.58	
		For 1-1/4" Mesh Fabric, Add	9.05	
		For 1-3/4" Mesh Fabric, Add	5.43	
		For 2-1/8" Mesh Fabric, Deduct	-2.72	
		For 2-3/8" Mesh Fabric, Deduct	-3.62	
		For 3/8" Non-Climbable Mesh, Add	120.42	
32 31 13 13-0185	LF	16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	42.05	11.35
		For 1-1/4" Mesh Fabric, Add	5.42	
		For 2 Oz Galvanized Or Zinc Coating, Add	4.84	
		For 13 Gauge Fabric, Deduct	-8.71	
		For 11 Gauge Fabric, Deduct	-4.84	
		For 6 Gauge Fabric, Add	15.48	
		For 1" Mesh Fabric, Add	14.51	
		For 1-1/4" Mesh Fabric, Add	9.68	
		For 1-3/4" Mesh Fabric, Add	5.81	
		For 2-1/8" Mesh Fabric, Deduct	-2.90	
		For 2-3/8" Mesh Fabric, Deduct	-3.87	
		For 3/8" Non-Climbable Mesh, Add	130.51	
32 31 13 13-0186	SF	>16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	2.63	0.67
		For 1-1/4" Mesh Fabric, Add	0.34	
		For 2 Oz Galvanized Or Zinc Coating, Add	0.30	
		For 13 Gauge Fabric, Deduct	-0.54	
		For 11 Gauge Fabric, Deduct	-0.30	
		For 6 Gauge Fabric, Add	0.97	
		For 1" Mesh Fabric, Add	0.91	
		For 1-1/4" Mesh Fabric, Add	0.61	
		For 1-3/4" Mesh Fabric, Add	0.36	
		For 2-1/8" Mesh Fabric, Deduct	-0.18	
		For 2-3/8" Mesh Fabric, Deduct	-0.24	
32 31 13 13-0187		Fabric, Vinyl Coated Chain Link (32 31 13 13-0173)		
32 31 13 13-0188	LF	4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	17.78	2.84
		For 1-1/4" Mesh Fabric, Add	2.00	
		For 13 Gauge Fabric, Deduct	-3.21	
		For 11 Gauge Fabric, Deduct	-1.79	
		For 6 Gauge Fabric, Add	5.71	
		For 1" Mesh Fabric, Add	5.36	
		For 1-1/4" Mesh Fabric, Add	3.57	
		For 1-3/4" Mesh Fabric, Add	2.14	
		For 2-1/8" Mesh Fabric, Deduct	-1.07	
		For 2-3/8" Mesh Fabric, Deduct	-1.43	
		For 3/8" Non-Climbable Mesh, Add	51.03	
		For Aluminum Coated, Add	2.86	
32 31 13 13-0189	LF	5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	20.28	4.26
		For 1-1/4" Mesh Fabric, Add	2.50	
		For 13 Gauge Fabric, Deduct	-4.02	
		For 11 Gauge Fabric, Deduct	-2.23	
		For 6 Gauge Fabric, Add	7.14	
		For 1" Mesh Fabric, Add	6.70	
		For 1-1/4" Mesh Fabric, Add	4.47	
		For 1-3/4" Mesh Fabric, Add	2.68	
		For 2-1/8" Mesh Fabric, Deduct	-1.34	
		For 2-3/8" Mesh Fabric, Deduct	-1.79	
		For 3/8" Non-Climbable Mesh, Add	61.81	
		For Aluminum Coated, Add	3.57	
32 31 13 13-0190	LF	6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	24.68	4.96
		For 1-1/4" Mesh Fabric, Add	3.51	
		For 13 Gauge Fabric, Deduct	-5.63	
		For 11 Gauge Fabric, Deduct	-3.13	
		For 6 Gauge Fabric, Add	10.02	
		For 1" Mesh Fabric, Add	9.39	
		For 1-1/4" Mesh Fabric, Add	6.26	
		For 1-3/4" Mesh Fabric, Add	3.76	
		For 2-1/8" Mesh Fabric, Deduct	-1.88	
		For 2-3/8" Mesh Fabric, Deduct	-2.50	
		For 3/8" Non-Climbable Mesh, Add	72.68	
		For Aluminum Coated, Add	5.01	
32 31 13 13-0191	LF	7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	27.68	5.68
		For 1-1/4" Mesh Fabric, Add	4.08	
		For 13 Gauge Fabric, Deduct	-6.56	
		For 11 Gauge Fabric, Deduct	-3.65	
		For 6 Gauge Fabric, Add	11.66	
		For 1" Mesh Fabric, Add	10.94	
		For 1-1/4" Mesh Fabric, Add	7.29	
		For 1-3/4" Mesh Fabric, Add	4.37	
		For 2-1/8" Mesh Fabric, Deduct	-2.19	
		For 2-3/8" Mesh Fabric, Deduct	-2.92	
		For 3/8" Non-Climbable Mesh, Add	83.72	
		For Aluminum Coated, Add	5.83	



Exterior Improvements			32
Site Improvements			32 30
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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 13 13-0192	LF	8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	30.98	7.09
		For 1-1/4" Mesh Fabric, Add	4.70	
		For 13 Gauge Fabric, Deduct	-7.56	
		For 11 Gauge Fabric, Deduct	-4.20	
		For 6 Gauge Fabric, Add	13.43	
		For 1" Mesh Fabric, Add	12.59	
		For 1-1/4" Mesh Fabric, Add	8.40	
		For 1-3/4" Mesh Fabric, Add	5.04	
		For 2-1/8" Mesh Fabric, Deduct	-2.52	
		For 2-3/8" Mesh Fabric, Deduct	-3.36	
		For 3/8" Non-Climbable Mesh, Add	94.91	
		For Aluminum Coated, Add	6.72	
32 31 13 13-0193	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	36.54	7.80
		For 1-1/4" Mesh Fabric, Add	5.85	
		For 13 Gauge Fabric, Deduct	-9.40	
		For 11 Gauge Fabric, Deduct	-5.22	
		For 6 Gauge Fabric, Add	16.71	
		For 1" Mesh Fabric, Add	15.67	
		For 1-1/4" Mesh Fabric, Add	10.45	
		For 1-3/4" Mesh Fabric, Add	6.27	
		For 2-1/8" Mesh Fabric, Deduct	-3.13	
		For 2-3/8" Mesh Fabric, Deduct	-4.18	
		For 3/8" Non-Climbable Mesh, Add	114.62	
		For Aluminum Coated, Add	8.36	
32 31 13 13-0194	LF	12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	39.89	8.51
		For 1-1/4" Mesh Fabric, Add	6.40	
		For 13 Gauge Fabric, Deduct	-10.29	
		For 11 Gauge Fabric, Deduct	-5.72	
		For 6 Gauge Fabric, Add	18.29	
		For 1" Mesh Fabric, Add	17.15	
		For 1-1/4" Mesh Fabric, Add	11.43	
		For 1-3/4" Mesh Fabric, Add	6.86	
		For 2-1/8" Mesh Fabric, Deduct	-3.43	
		For 2-3/8" Mesh Fabric, Deduct	-4.57	
		For 3/8" Non-Climbable Mesh, Add	124.32	
		For Aluminum Coated, Add	9.14	
32 31 13 13-0195	LF	14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	45.03	9.93
		For 1-1/4" Mesh Fabric, Add	7.04	
		For 13 Gauge Fabric, Deduct	-11.32	
		For 11 Gauge Fabric, Deduct	-6.29	
		For 6 Gauge Fabric, Add	20.13	
		For 1" Mesh Fabric, Add	18.87	
		For 1-1/4" Mesh Fabric, Add	12.58	
		For 1-3/4" Mesh Fabric, Add	7.55	
		For 2-1/8" Mesh Fabric, Deduct	-3.77	
		For 2-3/8" Mesh Fabric, Deduct	-5.03	
		For 3/8" Non-Climbable Mesh, Add	135.51	
		For Aluminum Coated, Add	10.06	
32 31 13 13-0196	LF	16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	50.27	11.35
		For 1-1/4" Mesh Fabric, Add	7.72	
		For 13 Gauge Fabric, Deduct	-12.41	
		For 11 Gauge Fabric, Deduct	-6.89	
		For 6 Gauge Fabric, Add	22.06	
		For 1" Mesh Fabric, Add	20.68	
		For 1-1/4" Mesh Fabric, Add	13.79	
		For 1-3/4" Mesh Fabric, Add	8.27	
		For 2-1/8" Mesh Fabric, Deduct	-4.14	
		For 2-3/8" Mesh Fabric, Deduct	-5.51	
		For 3/8" Non-Climbable Mesh, Add	146.68	
		For Aluminum Coated, Add	11.03	
32 31 13 13-0197	SF	>16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	3.14	0.67
		For 1-1/4" Mesh Fabric, Add	0.48	
		For 13 Gauge Fabric, Deduct	-0.77	
		For 11 Gauge Fabric, Deduct	-0.43	
		For 6 Gauge Fabric, Add	1.38	
		For 1" Mesh Fabric, Add	1.29	
		For 1-1/4" Mesh Fabric, Add	0.86	
		For 1-3/4" Mesh Fabric, Add	0.52	
		For 2-1/8" Mesh Fabric, Deduct	-0.26	
		For 2-3/8" Mesh Fabric, Deduct	-0.34	
		For Aluminum Coated, Add	0.69	
32 31 13 13-0198		Fabric, Aluminized Steel Chain Link (32 31 13 13-0173)		
32 31 13 13-0199	LF	3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	13.00	2.84
		For 6 Gauge Fabric, Add	3.02	
		For 1" Mesh Fabric, Add	3.97	
32 31 13 13-0200	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	14.32	3.20
		For 6 Gauge Fabric, Add	3.51	
		For 1" Mesh Fabric, Add	4.61	
32 31 13 13-0201	LF	4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	15.67	3.54
		For 6 Gauge Fabric, Add	4.02	
		For 1" Mesh Fabric, Add	5.28	
32 31 13 13-0202	LF	5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	17.63	4.26
		For 6 Gauge Fabric, Add	5.02	
		For 1" Mesh Fabric, Add	6.59	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0203	LF	6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	19.66 6.00 7.88	4.96
32 31 13 13-0204	LF	7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	21.88 7.02 9.22	5.68
32 31 13 13-0205	LF	8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	24.22 8.02 10.53	7.09
32 31 13 13-0206	LF	10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	28.18 10.02 13.16	7.80
32 31 13 13-0207	LF	12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	32.06 12.02 15.78	8.51
32 31 13 13-0208 Fabric, All Aluminum Chain Link (32 31 13 13-0173)				
32 31 13 13-0209	LF	3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	19.10 7.90 10.37	2.84
32 31 13 13-0210	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	21.45 9.22 12.10	3.20
32 31 13 13-0211	LF	4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	23.81 10.54 13.83	3.54
32 31 13 13-0212	LF	5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	27.81 13.17 17.28	4.26
32 31 13 13-0213	LF	6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	31.91 15.80 20.74	4.96
32 31 13 13-0214	LF	7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	36.14 18.43 24.19	5.68
32 31 13 13-0215	LF	8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	40.52 21.06 27.65	7.09
32 31 13 13-0216	LF	10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	48.57 26.34 34.57	7.80
32 31 13 13-0217	LF	12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	56.53 31.60 41.48	8.51
32 31 13 13-0218 Fence Inserts (32 31 13 13-0173)				
Note: For use with new or existing chain link fence, per lf of fence.				
32 31 13 13-0219 Vinyl Plastic Fence Inserts (32 31 13 13-0218)				
Note: Assorted colors.				
32 31 13 13-0220	LF	3' High Fence, Vinyl Plastic Fence Insert.....	10.19	
32 31 13 13-0221	LF	3-1/2' High Fence, Vinyl Plastic Fence Insert.....	11.62	
32 31 13 13-0222	LF	4' High Fence, Vinyl Plastic Fence Insert.....	12.81	
32 31 13 13-0223	LF	5' High Fence, Vinyl Plastic Fence Insert.....	16.06	
32 31 13 13-0224	LF	6' High Fence, Vinyl Plastic Fence Insert.....	19.22	
32 31 13 13-0225	LF	7' High Fence, Vinyl Plastic Fence Insert.....	22.49	
32 31 13 13-0226	LF	8' High Fence, Vinyl Plastic Fence Insert.....	25.64	
32 31 13 13-0227	LF	10' High Fence, Vinyl Plastic Fence Insert.....	31.21	
32 31 13 13-0228 Aluminum Fence Inserts (32 31 13 13-0218)				
Note: Assorted colors.				
32 31 13 13-0229	LF	3' High Fence, Aluminum Fence Insert.....	42.41	
32 31 13 13-0230	LF	3-1/2' High Fence, Aluminum Fence Insert.....	46.44	
32 31 13 13-0231	LF	4' High Fence, Aluminum Fence Insert.....	52.46	
32 31 13 13-0232	LF	5' High Fence, Aluminum Fence Insert.....	65.63	
32 31 13 13-0233	LF	6' High Fence, Aluminum Fence Insert.....	78.75	
32 31 13 13-0234	LF	7' High Fence, Aluminum Fence Insert.....	85.23	
32 31 13 13-0235	LF	8' High Fence, Aluminum Fence Insert.....	104.99	
32 31 13 13-0236	LF	10' High Fence, Aluminum Fence Insert.....	131.20	
32 31 13 13-0237 Redwood Fence Inserts (32 31 13 13-0218)				
32 31 13 13-0238	LF	4' High Fence, Redwood Fence Insert.....	15.45	
32 31 13 13-0239	LF	5' High Fence, Redwood Fence Insert.....	19.53	
32 31 13 13-0240	LF	6' High Fence, Redwood Fence Insert.....	23.46	
32 31 13 13-0241	LF	7' High Fence, Redwood Fence Insert.....	27.31	
32 31 13 13-0242	LF	8' High Fence, Redwood Fence Insert.....	31.25	
32 31 13 13-0243 Diagonal Flexible Polyethylene Inserts (32 31 13 13-0218)				



Exterior Improvements			32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0244 SF Diagonal Polyethylene Fence Weave	4.05	
32 31 13 13-0245 Hedge Link Fence Inserts (32 31 13 13-0218)		
32 31 13 13-0246 LF 3' High Fence, Hedge Link Fence Insert.....	21.81	
32 31 13 13-0247 LF 3-1/2' High Fence, Hedge Link Fence Insert.....	24.85	
32 31 13 13-0248 LF 4' High Fence, Hedge Link Fence Insert.....	29.10	
32 31 13 13-0249 LF 5' High Fence, Hedge Link Fence Insert.....	35.89	
32 31 13 13-0250 LF 6' High Fence, Hedge Link Fence Insert.....	41.03	
32 31 13 13-0251 LF 7' High Fence, Hedge Link Fence Insert.....	51.87	
32 31 13 13-0252 LF 8' High Fence, Hedge Link Fence Insert.....	58.91	
32 31 13 13-0253 LF 10' High Fence, Hedge Link Fence Insert.....	70.42	
32 31 13 13-0254 LF 12' High Fence, Hedge Link Fence Insert.....	80.78	
32 31 13 13-0255 Fence Windscreen Fabric (32 31 13 13-0173)		
Note: Includes plastic wire clips.		
32 31 13 13-0256 SF Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY	1.37	0.61
For Sewn Boxed Vent (Each), Add	29.76	
For Welded Boxed Vent (Each), Add	14.88	
For 4' x 4' One Color Logo (Each), Add	619.98	
32 31 13 13-0257 Non-Climbable Fabric, Galvanized Chain Link (32 31 13 13-0173)		
32 31 13 13-0258 LF 3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	35.54	2.84
For 11 Gauge, Deduct	-5.26	
For 10 Gauge, Deduct	-2.11	
For 7 Gauge, Add	3.16	
For 6 Gauge, Add	7.37	
For 1/2" Mesh Fabric, Deduct	-1.32	
For 5/8" Mesh Fabric, Deduct	-2.90	
For 3/4" Mesh Fabric, Deduct	-4.21	
32 31 13 13-0259 LF 3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	40.62	3.20
For 11 Gauge, Deduct	-6.14	
For 10 Gauge, Deduct	-2.46	
For 7 Gauge, Add	3.68	
For 6 Gauge, Add	8.59	
For 1/2" Mesh Fabric, Deduct	-1.53	
For 5/8" Mesh Fabric, Deduct	-3.38	
For 3/4" Mesh Fabric, Deduct	-4.91	
32 31 13 13-0260 LF 4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	45.76	3.54
For 11 Gauge, Deduct	-7.02	
For 10 Gauge, Deduct	-2.81	
For 7 Gauge, Add	4.21	
For 6 Gauge, Add	9.83	
For 1/2" Mesh Fabric, Deduct	-1.76	
For 5/8" Mesh Fabric, Deduct	-3.86	
For 3/4" Mesh Fabric, Deduct	-5.62	
32 31 13 13-0261 LF 5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	55.22	4.26
For 11 Gauge, Deduct	-8.77	
For 10 Gauge, Deduct	-3.51	
For 7 Gauge, Add	5.26	
For 6 Gauge, Add	12.28	
For 1/2" Mesh Fabric, Deduct	-2.19	
For 5/8" Mesh Fabric, Deduct	-4.83	
For 3/4" Mesh Fabric, Deduct	-7.02	
32 31 13 13-0262 LF 6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	64.79	4.96
For 11 Gauge, Deduct	-10.53	
For 10 Gauge, Deduct	-4.21	
For 7 Gauge, Add	6.32	
For 6 Gauge, Add	14.74	
For 1/2" Mesh Fabric, Deduct	-2.63	
For 5/8" Mesh Fabric, Deduct	-5.79	
For 3/4" Mesh Fabric, Deduct	-8.42	
32 31 13 13-0263 LF 7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	74.51	5.68
For 11 Gauge, Deduct	-12.28	
For 10 Gauge, Deduct	-4.91	
For 7 Gauge, Add	7.37	
For 6 Gauge, Add	17.19	
For 1/2" Mesh Fabric, Deduct	-3.07	
For 5/8" Mesh Fabric, Deduct	-6.76	
For 3/4" Mesh Fabric, Deduct	-9.83	
32 31 13 13-0264 LF 8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	84.38	7.09
For 11 Gauge, Deduct	-14.04	
For 10 Gauge, Deduct	-5.62	
For 7 Gauge, Add	8.42	
For 6 Gauge, Add	19.65	
For 1/2" Mesh Fabric, Deduct	-3.51	
For 5/8" Mesh Fabric, Deduct	-7.72	
For 3/4" Mesh Fabric, Deduct	-11.23	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0265	LF		9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	93.02	7.45
			For 11 Gauge, Deduct	-15.63	
			For 10 Gauge, Deduct	-6.25	
			For 7 Gauge, Add	9.38	
			For 6 Gauge, Add	21.88	
			For 1/2" Mesh Fabric, Deduct	-3.91	
			For 5/8" Mesh Fabric, Deduct	-8.59	
			For 3/4" Mesh Fabric, Deduct	-12.50	
32 31 13 13-0266	LF		10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	101.71	7.80
			For 11 Gauge, Deduct	-17.21	
			For 10 Gauge, Deduct	-6.88	
			For 7 Gauge, Add	10.33	
			For 6 Gauge, Add	24.10	
			For 1/2" Mesh Fabric, Deduct	-4.30	
			For 5/8" Mesh Fabric, Deduct	-9.47	
			For 3/4" Mesh Fabric, Deduct	-13.77	
32 31 13 13-0267	LF		12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	110.33	8.51
			For 11 Gauge, Deduct	-18.66	
			For 10 Gauge, Deduct	-7.46	
			For 7 Gauge, Add	11.20	
			For 6 Gauge, Add	26.12	
			For 1/2" Mesh Fabric, Deduct	-4.67	
			For 5/8" Mesh Fabric, Deduct	-10.26	
			For 3/4" Mesh Fabric, Deduct	-14.93	
32 31 13 13-0268			Gates (32 31 13 13)		
			Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0269			Galvanized Steel Without Barbed Wire (32 31 13 13-0268)		
			Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0270			4' Fence Height (32 31 13 13-0269)		
32 31 13 13-0271	EA		3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	362.07	26.57
			For Gate With Single Barb Wire Arm, Add	30.70	
			For Gate With Double Barb Wire Arm, Add	44.65	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-52.32	
			For Aluminized Steel Gate And Post, Add	133.95	
			For Powder Coated Gate And Post, Add	72.56	
			For 1" Mesh Fabric, Add	121.39	
			For 1-1/4" Mesh Fabric, Add	78.14	
			For 1-3/4" Mesh Fabric, Add	48.56	
			For 2-1/8" Mesh Fabric, Deduct	-24.28	
32 31 13 13-0272	EA		4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	455.09	27.67
			For Gate With Single Barb Wire Arm, Add	40.93	
			For Gate With Double Barb Wire Arm, Add	59.53	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.77	
			For Aluminized Steel Gate And Post, Add	178.60	
			For Powder Coated Gate And Post, Add	96.74	
			For 1" Mesh Fabric, Add	161.85	
			For 1-1/4" Mesh Fabric, Add	104.18	
			For 1-3/4" Mesh Fabric, Add	64.74	
			For 2-1/8" Mesh Fabric, Deduct	-32.37	
32 31 13 13-0273	EA		5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	537.76	29.44
			For Gate With Single Barb Wire Arm, Add	49.41	
			For Gate With Double Barb Wire Arm, Add	71.87	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.23	
			For Aluminized Steel Gate And Post, Add	215.62	
			For Powder Coated Gate And Post, Add	116.79	
			For 1" Mesh Fabric, Add	195.41	
			For 1-1/4" Mesh Fabric, Add	125.78	
			For 1-3/4" Mesh Fabric, Add	78.16	
			For 2-1/8" Mesh Fabric, Deduct	-39.08	
32 31 13 13-0274	EA		6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	632.62	35.42
			For Gate With Single Barb Wire Arm, Add	57.90	
			For Gate With Double Barb Wire Arm, Add	84.22	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-98.69	
			For Aluminized Steel Gate And Post, Add	252.65	
			For Powder Coated Gate And Post, Add	136.85	
			For 1" Mesh Fabric, Add	228.96	
			For 1-1/4" Mesh Fabric, Add	147.38	
			For 1-3/4" Mesh Fabric, Add	91.58	
			For 2-1/8" Mesh Fabric, Deduct	-45.79	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0275	EA	7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	727.48	41.29
			For Gate With Single Barb Wire Arm, Add	66.38	
			For Gate With Double Barb Wire Arm, Add	96.56	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.15	
			For Aluminized Steel Gate And Post, Add	289.68	
			For Powder Coated Gate And Post, Add	156.91	
			For 1" Mesh Fabric, Add	262.52	
			For 1-1/4" Mesh Fabric, Add	168.98	
			For 1-3/4" Mesh Fabric, Add	105.01	
			For 2-1/8" Mesh Fabric, Deduct	-52.50	
32 31 13	13-0276	EA	8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	825.49	47.16
			For Gate With Single Barb Wire Arm, Add	75.22	
			For Gate With Double Barb Wire Arm, Add	109.41	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-128.21	
			For Aluminized Steel Gate And Post, Add	328.22	
			For Powder Coated Gate And Post, Add	177.79	
			For 1" Mesh Fabric, Add	297.45	
			For 1-1/4" Mesh Fabric, Add	191.46	
			For 1-3/4" Mesh Fabric, Add	118.98	
			For 2-1/8" Mesh Fabric, Deduct	-59.49	
32 31 13	13-0277	EA	9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	920.33	53.13
			For Gate With Single Barb Wire Arm, Add	83.70	
			For Gate With Double Barb Wire Arm, Add	121.75	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-142.68	
			For Aluminized Steel Gate And Post, Add	365.25	
			For Powder Coated Gate And Post, Add	197.84	
			For 1" Mesh Fabric, Add	331.01	
			For 1-1/4" Mesh Fabric, Add	213.06	
			For 1-3/4" Mesh Fabric, Add	132.40	
			For 2-1/8" Mesh Fabric, Deduct	-66.20	
32 31 13	13-0278	EA	10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	1,016.53	59.00
			For Gate With Single Barb Wire Arm, Add	92.34	
			For Gate With Double Barb Wire Arm, Add	134.31	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-157.40	
			For Aluminized Steel Gate And Post, Add	402.93	
			For Powder Coated Gate And Post, Add	218.25	
			For 1" Mesh Fabric, Add	365.16	
			For 1-1/4" Mesh Fabric, Add	235.04	
			For 1-3/4" Mesh Fabric, Add	146.06	
			For 2-1/8" Mesh Fabric, Deduct	-73.03	
32 31 13	13-0279	EA	10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,293.32	59.00
			For Gate With Single Barb Wire Arm, Add	122.78	
			For Gate With Double Barb Wire Arm, Add	178.60	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-209.29	
			For Aluminized Steel Gate And Post, Add	535.79	
			For Powder Coated Gate And Post, Add	290.22	
			For 1" Mesh Fabric, Add	485.56	
			For 1-1/4" Mesh Fabric, Add	312.54	
			For 1-3/4" Mesh Fabric, Add	194.22	
			For 2-1/8" Mesh Fabric, Deduct	-97.11	
32 31 13	13-0280	EA	12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,529.22	63.21
			For Gate With Single Barb Wire Arm, Add	147.34	
			For Gate With Double Barb Wire Arm, Add	214.32	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-251.15	
			For Aluminized Steel Gate And Post, Add	642.95	
			For Powder Coated Gate And Post, Add	348.26	
			For 1" Mesh Fabric, Add	582.67	
			For 1-1/4" Mesh Fabric, Add	375.05	
			For 1-3/4" Mesh Fabric, Add	233.07	
			For 2-1/8" Mesh Fabric, Deduct	-116.53	
32 31 13	13-0281	EA	14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,767.07	68.07
			For Gate With Single Barb Wire Arm, Add	171.90	
			For Gate With Double Barb Wire Arm, Add	250.04	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-293.01	
			For Aluminized Steel Gate And Post, Add	750.11	
			For Powder Coated Gate And Post, Add	406.31	
			For 1" Mesh Fabric, Add	679.78	
			For 1-1/4" Mesh Fabric, Add	437.56	
			For 1-3/4" Mesh Fabric, Add	271.91	
			For 2-1/8" Mesh Fabric, Deduct	-135.96	
32 31 13	13-0282	EA	16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,007.33	73.72
			For Gate With Single Barb Wire Arm, Add	196.46	
			For Gate With Double Barb Wire Arm, Add	285.75	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-334.87	
			For Aluminized Steel Gate And Post, Add	857.26	
			For Powder Coated Gate And Post, Add	464.35	
			For 1" Mesh Fabric, Add	776.89	
			For 1-1/4" Mesh Fabric, Add	500.07	
			For 1-3/4" Mesh Fabric, Add	310.76	
			For 2-1/8" Mesh Fabric, Deduct	-155.38	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0283	EA	18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,293.02	94.45
		For Gate With Single Barb Wire Arm, Add	221.01	
		For Gate With Double Barb Wire Arm, Add	321.47	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-376.73	
		For Aluminized Steel Gate And Post, Add	964.42	
		For Powder Coated Gate And Post, Add	522.39	
		For 1" Mesh Fabric, Add	874.00	
		For 1-1/4" Mesh Fabric, Add	562.58	
		For 1-3/4" Mesh Fabric, Add	349.60	
		For 2-1/8" Mesh Fabric, Deduct	-174.80	
32 31 13 13-0284	EA	20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,536.54	101.25
		For Gate With Single Barb Wire Arm, Add	245.57	
		For Gate With Double Barb Wire Arm, Add	357.19	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-418.58	
		For Aluminized Steel Gate And Post, Add	1,071.58	
		For Powder Coated Gate And Post, Add	580.44	
		For 1" Mesh Fabric, Add	971.12	
		For 1-1/4" Mesh Fabric, Add	625.09	
		For 1-3/4" Mesh Fabric, Add	388.45	
		For 2-1/8" Mesh Fabric, Deduct	-194.22	
32 31 13 13-0285	EA	22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,777.73	109.09
		For Gate With Single Barb Wire Arm, Add	269.53	
		For Gate With Double Barb Wire Arm, Add	392.04	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-459.42	
		For Aluminized Steel Gate And Post, Add	1,176.12	
		For Powder Coated Gate And Post, Add	637.07	
		For 1" Mesh Fabric, Add	1,065.86	
		For 1-1/4" Mesh Fabric, Add	686.07	
		For 1-3/4" Mesh Fabric, Add	426.34	
		For 2-1/8" Mesh Fabric, Deduct	-213.17	
32 31 13 13-0286	EA	24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,022.83	118.14
		For Gate With Single Barb Wire Arm, Add	293.49	
		For Gate With Double Barb Wire Arm, Add	426.89	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-500.26	
		For Aluminized Steel Gate And Post, Add	1,280.66	
		For Powder Coated Gate And Post, Add	693.69	
		For 1" Mesh Fabric, Add	1,160.60	
		For 1-1/4" Mesh Fabric, Add	747.05	
		For 1-3/4" Mesh Fabric, Add	464.24	
		For 2-1/8" Mesh Fabric, Deduct	-232.12	
32 31 13 13-0287	EA	26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,272.88	128.92
		For Gate With Single Barb Wire Arm, Add	317.44	
		For Gate With Double Barb Wire Arm, Add	461.74	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-541.10	
		For Aluminized Steel Gate And Post, Add	1,385.21	
		For Powder Coated Gate And Post, Add	750.32	
		For 1" Mesh Fabric, Add	1,255.34	
		For 1-1/4" Mesh Fabric, Add	808.04	
		For 1-3/4" Mesh Fabric, Add	502.14	
		For 2-1/8" Mesh Fabric, Deduct	-251.07	
32 31 13 13-0288	EA	28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,447.71	141.83
		For Gate With Single Barb Wire Arm, Add	332.42	
		For Gate With Double Barb Wire Arm, Add	483.52	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-566.62	
		For Aluminized Steel Gate And Post, Add	1,450.55	
		For Powder Coated Gate And Post, Add	785.71	
		For 1" Mesh Fabric, Add	1,314.56	
		For 1-1/4" Mesh Fabric, Add	846.15	
		For 1-3/4" Mesh Fabric, Add	525.82	
		For 2-1/8" Mesh Fabric, Deduct	-262.91	
32 31 13 13-0289	EA	30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,821.71	157.52
		For Gate With Single Barb Wire Arm, Add	368.35	
		For Gate With Double Barb Wire Arm, Add	535.79	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-627.88	
		For Aluminized Steel Gate And Post, Add	1,607.37	
		For Powder Coated Gate And Post, Add	870.66	
		For 1" Mesh Fabric, Add	1,456.68	
		For 1-1/4" Mesh Fabric, Add	937.63	
		For 1-3/4" Mesh Fabric, Add	582.67	
		For 2-1/8" Mesh Fabric, Deduct	-291.34	
32 31 13 13-0290		5' Fence Height (32 31 13 13-0269)		
32 31 13 13-0291	EA	3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	433.40	29.44
		For Gate With Single Barb Wire Arm, Add	37.93	
		For Gate With Double Barb Wire Arm, Add	55.18	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-64.66	
		For Aluminized Steel Gate And Post, Add	165.53	
		For Powder Coated Gate And Post, Add	89.66	
		For 1" Mesh Fabric, Add	150.01	
		For 1-1/4" Mesh Fabric, Add	96.56	
		For 1-3/4" Mesh Fabric, Add	60.00	
		For 2-1/8" Mesh Fabric, Deduct	-30.00	



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Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0292	EA	4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	546.84	29.44
			For Gate With Single Barb Wire Arm, Add	50.41	
			For Gate With Double Barb Wire Arm, Add	73.33	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-85.93	
			For Aluminized Steel Gate And Post, Add	219.98	
			For Powder Coated Gate And Post, Add	119.16	
			For 1" Mesh Fabric, Add	199.36	
			For 1-1/4" Mesh Fabric, Add	128.32	
			For 1-3/4" Mesh Fabric, Add	79.74	
			For 2-1/8" Mesh Fabric, Deduct	-39.87	
32 31 13	13-0293	EA	5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	638.60	31.33
			For Gate With Single Barb Wire Arm, Add	59.90	
			For Gate With Double Barb Wire Arm, Add	87.12	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.09	
			For Aluminized Steel Gate And Post, Add	261.36	
			For Powder Coated Gate And Post, Add	141.57	
			For 1" Mesh Fabric, Add	236.86	
			For 1-1/4" Mesh Fabric, Add	152.46	
			For 1-3/4" Mesh Fabric, Add	94.74	
			For 2-1/8" Mesh Fabric, Deduct	-47.37	
32 31 13	13-0294	EA	6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	748.17	37.63
			For Gate With Single Barb Wire Arm, Add	69.88	
			For Gate With Double Barb Wire Arm, Add	101.64	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-119.11	
			For Aluminized Steel Gate And Post, Add	304.92	
			For Powder Coated Gate And Post, Add	165.17	
			For 1" Mesh Fabric, Add	276.33	
			For 1-1/4" Mesh Fabric, Add	177.87	
			For 1-3/4" Mesh Fabric, Add	110.53	
			For 2-1/8" Mesh Fabric, Deduct	-55.27	
32 31 13	13-0295	EA	7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	848.64	43.83
			For Gate With Single Barb Wire Arm, Add	78.86	
			For Gate With Double Barb Wire Arm, Add	114.71	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-134.42	
			For Aluminized Steel Gate And Post, Add	344.12	
			For Powder Coated Gate And Post, Add	186.40	
			For 1" Mesh Fabric, Add	311.86	
			For 1-1/4" Mesh Fabric, Add	200.74	
			For 1-3/4" Mesh Fabric, Add	124.74	
			For 2-1/8" Mesh Fabric, Deduct	-62.37	
32 31 13	13-0296	EA	8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	959.33	50.47
			For Gate With Single Barb Wire Arm, Add	88.84	
			For Gate With Double Barb Wire Arm, Add	129.23	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-151.44	
			For Aluminized Steel Gate And Post, Add	387.69	
			For Powder Coated Gate And Post, Add	210.00	
			For 1" Mesh Fabric, Add	351.34	
			For 1-1/4" Mesh Fabric, Add	226.15	
			For 1-3/4" Mesh Fabric, Add	140.54	
			For 2-1/8" Mesh Fabric, Deduct	-70.27	
32 31 13	13-0297	EA	9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,064.35	56.78
			For Gate With Single Barb Wire Arm, Add	98.33	
			For Gate With Double Barb Wire Arm, Add	143.02	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-167.60	
			For Aluminized Steel Gate And Post, Add	429.07	
			For Powder Coated Gate And Post, Add	232.41	
			For 1" Mesh Fabric, Add	388.84	
			For 1-1/4" Mesh Fabric, Add	250.29	
			For 1-3/4" Mesh Fabric, Add	155.54	
			For 2-1/8" Mesh Fabric, Deduct	-77.77	
32 31 13	13-0298	EA	10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,169.37	62.99
			For Gate With Single Barb Wire Arm, Add	107.81	
			For Gate With Double Barb Wire Arm, Add	156.82	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-183.77	
			For Aluminized Steel Gate And Post, Add	470.45	
			For Powder Coated Gate And Post, Add	254.63	
			For 1" Mesh Fabric, Add	426.34	
			For 1-1/4" Mesh Fabric, Add	274.43	
			For 1-3/4" Mesh Fabric, Add	170.54	
			For 2-1/8" Mesh Fabric, Deduct	-85.27	
32 31 13	13-0299	EA	10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,572.78	63.21
			For Gate With Single Barb Wire Arm, Add	152.13	
			For Gate With Double Barb Wire Arm, Add	221.28	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-259.32	
			For Aluminized Steel Gate And Post, Add	663.85	
			For Powder Coated Gate And Post, Add	359.59	
			For 1" Mesh Fabric, Add	601.62	
			For 1-1/4" Mesh Fabric, Add	387.25	
			For 1-3/4" Mesh Fabric, Add	240.65	
			For 2-1/8" Mesh Fabric, Deduct	-120.32	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0300	EA 12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,865.07		68.07
	For Gate With Single Barb Wire Arm, Add	182.68		
	For Gate With Double Barb Wire Arm, Add	265.72		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-311.39		
	For Aluminized Steel Gate And Post, Add	797.15		
	For Powder Coated Gate And Post, Add	431.79		
	For 1" Mesh Fabric, Add	722.41		
	For 1-1/4" Mesh Fabric, Add	465.00		
	For 1-3/4" Mesh Fabric, Add	288.97		
	For 2-1/8" Mesh Fabric, Deduct	-144.48		
32 31 13 13-0301	EA 14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,159.79		73.72
	For Gate With Single Barb Wire Arm, Add	213.23		
	For Gate With Double Barb Wire Arm, Add	310.15		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-363.45		
	For Aluminized Steel Gate And Post, Add	930.44		
	For Powder Coated Gate And Post, Add	503.99		
	For 1" Mesh Fabric, Add	843.21		
	For 1-1/4" Mesh Fabric, Add	542.76		
	For 1-3/4" Mesh Fabric, Add	337.29		
	For 2-1/8" Mesh Fabric, Deduct	-168.64		
32 31 13 13-0302	EA 16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,499.94		94.45
	For Gate With Single Barb Wire Arm, Add	243.77		
	For Gate With Double Barb Wire Arm, Add	354.58		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-415.52		
	For Aluminized Steel Gate And Post, Add	1,063.74		
	For Powder Coated Gate And Post, Add	576.19		
	For 1" Mesh Fabric, Add	964.01		
	For 1-1/4" Mesh Fabric, Add	620.51		
	For 1-3/4" Mesh Fabric, Add	385.60		
	For 2-1/8" Mesh Fabric, Deduct	-192.80		
32 31 13 13-0303	EA 18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,792.45		101.25
	For Gate With Single Barb Wire Arm, Add	273.72		
	For Gate With Double Barb Wire Arm, Add	398.14		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-466.57		
	For Aluminized Steel Gate And Post, Add	1,194.41		
	For Powder Coated Gate And Post, Add	646.97		
	For 1" Mesh Fabric, Add	1,082.44		
	For 1-1/4" Mesh Fabric, Add	696.74		
	For 1-3/4" Mesh Fabric, Add	432.97		
	For 2-1/8" Mesh Fabric, Deduct	-216.49		
32 31 13 13-0304	EA 20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,098.98		109.09
	For Gate With Single Barb Wire Arm, Add	304.87		
	For Gate With Double Barb Wire Arm, Add	443.44		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-519.66		
	For Aluminized Steel Gate And Post, Add	1,330.32		
	For Powder Coated Gate And Post, Add	720.59		
	For 1" Mesh Fabric, Add	1,205.60		
	For 1-1/4" Mesh Fabric, Add	776.02		
	For 1-3/4" Mesh Fabric, Add	482.24		
	For 2-1/8" Mesh Fabric, Deduct	-241.12		
32 31 13 13-0305	EA 22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,403.98		118.14
	For Gate With Single Barb Wire Arm, Add	335.41		
	For Gate With Double Barb Wire Arm, Add	487.87		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-571.73		
	For Aluminized Steel Gate And Post, Add	1,463.62		
	For Powder Coated Gate And Post, Add	792.79		
	For 1" Mesh Fabric, Add	1,326.40		
	For 1-1/4" Mesh Fabric, Add	853.78		
	For 1-3/4" Mesh Fabric, Add	530.56		
	For 2-1/8" Mesh Fabric, Deduct	-265.28		
32 31 13 13-0306	EA 24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,708.48		128.92
	For Gate With Single Barb Wire Arm, Add	365.36		
	For Gate With Double Barb Wire Arm, Add	531.43		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-622.77		
	For Aluminized Steel Gate And Post, Add	1,594.30		
	For Powder Coated Gate And Post, Add	863.58		
	For 1" Mesh Fabric, Add	1,444.83		
	For 1-1/4" Mesh Fabric, Add	930.01		
	For 1-3/4" Mesh Fabric, Add	577.93		
	For 2-1/8" Mesh Fabric, Deduct	-288.97		
32 31 13 13-0307	EA 26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,030.32		141.83
	For Gate With Single Barb Wire Arm, Add	396.50		
	For Gate With Double Barb Wire Arm, Add	576.73		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-675.86		
	For Aluminized Steel Gate And Post, Add	1,730.20		
	For Powder Coated Gate And Post, Add	937.19		
	For 1" Mesh Fabric, Add	1,568.00		
	For 1-1/4" Mesh Fabric, Add	1,009.29		
	For 1-3/4" Mesh Fabric, Add	627.20		
	For 2-1/8" Mesh Fabric, Deduct	-313.60		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0308	EA		28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,351.88	157.52
			For Gate With Single Barb Wire Arm, Add	426.67	
			For Gate With Double Barb Wire Arm, Add	620.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-727.28	
			For Aluminized Steel Gate And Post, Add	1,861.85	
			For Powder Coated Gate And Post, Add	1,008.50	
			For 1" Mesh Fabric, Add	1,687.30	
			For 1-1/4" Mesh Fabric, Add	1,086.08	
			For 1-3/4" Mesh Fabric, Add	674.92	
			For 2-1/8" Mesh Fabric, Deduct	-337.46	
32 31 13 13-0309	EA		30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,681.26	177.21
			For Gate With Single Barb Wire Arm, Add	456.40	
			For Gate With Double Barb Wire Arm, Add	663.85	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-777.95	
			For Aluminized Steel Gate And Post, Add	1,991.56	
			For Powder Coated Gate And Post, Add	1,078.76	
			For 1" Mesh Fabric, Add	1,804.85	
			For 1-1/4" Mesh Fabric, Add	1,161.75	
			For 1-3/4" Mesh Fabric, Add	721.94	
			For 2-1/8" Mesh Fabric, Deduct	-360.97	
32 31 13 13-0310 6' Fence Height (32 31 13 13-0269)					
32 31 13 13-0311	EA		3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	464.69	31.55
			For Gate With Single Barb Wire Arm, Add	40.68	
			For Gate With Double Barb Wire Arm, Add	59.17	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.34	
			For Aluminized Steel Gate And Post, Add	177.51	
			For Powder Coated Gate And Post, Add	96.15	
			For 1" Mesh Fabric, Add	160.87	
			For 1-1/4" Mesh Fabric, Add	103.55	
			For 1-3/4" Mesh Fabric, Add	64.35	
			For 2-1/8" Mesh Fabric, Deduct	-32.17	
32 31 13 13-0312	EA		4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	587.20	31.55
			For Gate With Single Barb Wire Arm, Add	54.16	
			For Gate With Double Barb Wire Arm, Add	78.77	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-92.31	
			For Aluminized Steel Gate And Post, Add	236.31	
			For Powder Coated Gate And Post, Add	128.00	
			For 1" Mesh Fabric, Add	214.16	
			For 1-1/4" Mesh Fabric, Add	137.85	
			For 1-3/4" Mesh Fabric, Add	85.66	
			For 2-1/8" Mesh Fabric, Deduct	-42.83	
32 31 13 13-0313	EA		5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	686.76	33.53
			For Gate With Single Barb Wire Arm, Add	64.46	
			For Gate With Double Barb Wire Arm, Add	93.76	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.88	
			For Aluminized Steel Gate And Post, Add	281.29	
			For Powder Coated Gate And Post, Add	152.37	
			For 1" Mesh Fabric, Add	254.92	
			For 1-1/4" Mesh Fabric, Add	164.09	
			For 1-3/4" Mesh Fabric, Add	101.97	
			For 2-1/8" Mesh Fabric, Deduct	-50.98	
32 31 13 13-0314	EA		6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	797.85	40.51
			For Gate With Single Barb Wire Arm, Add	74.37	
			For Gate With Double Barb Wire Arm, Add	108.17	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-126.77	
			For Aluminized Steel Gate And Post, Add	324.52	
			For Powder Coated Gate And Post, Add	175.78	
			For 1" Mesh Fabric, Add	294.10	
			For 1-1/4" Mesh Fabric, Add	189.31	
			For 1-3/4" Mesh Fabric, Add	117.64	
			For 2-1/8" Mesh Fabric, Deduct	-58.82	
32 31 13 13-0315	EA		7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	914.16	47.60
			For Gate With Single Barb Wire Arm, Add	84.85	
			For Gate With Double Barb Wire Arm, Add	123.42	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-144.63	
			For Aluminized Steel Gate And Post, Add	370.26	
			For Powder Coated Gate And Post, Add	200.56	
			For 1" Mesh Fabric, Add	335.55	
			For 1-1/4" Mesh Fabric, Add	215.99	
			For 1-3/4" Mesh Fabric, Add	134.22	
			For 2-1/8" Mesh Fabric, Deduct	-67.11	
32 31 13 13-0316	EA		8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,024.83	54.24
			For Gate With Single Barb Wire Arm, Add	94.83	
			For Gate With Double Barb Wire Arm, Add	137.94	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.65	
			For Aluminized Steel Gate And Post, Add	413.82	
			For Powder Coated Gate And Post, Add	224.15	
			For 1" Mesh Fabric, Add	375.02	
			For 1-1/4" Mesh Fabric, Add	241.39	
			For 1-3/4" Mesh Fabric, Add	150.01	
			For 2-1/8" Mesh Fabric, Deduct	-75.00	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0317	EA	9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,136.63	61.21
		For Gate With Single Barb Wire Arm, Add	104.82	
		For Gate With Double Barb Wire Arm, Add	152.46	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-178.67	
		For Aluminized Steel Gate And Post, Add	457.38	
		For Powder Coated Gate And Post, Add	247.75	
		For 1" Mesh Fabric, Add	414.50	
		For 1-1/4" Mesh Fabric, Add	266.81	
		For 1-3/4" Mesh Fabric, Add	165.80	
		For 2-1/8" Mesh Fabric, Deduct	-82.90	
32 31 13 13-0318	EA	10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,207.56	68.19
		For Gate With Single Barb Wire Arm, Add	110.31	
		For Gate With Double Barb Wire Arm, Add	160.45	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-188.02	
		For Aluminized Steel Gate And Post, Add	481.34	
		For Powder Coated Gate And Post, Add	260.73	
		For 1" Mesh Fabric, Add	436.21	
		For 1-1/4" Mesh Fabric, Add	280.78	
		For 1-3/4" Mesh Fabric, Add	174.49	
		For 2-1/8" Mesh Fabric, Deduct	-87.24	
32 31 13 13-0319	EA	10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,679.95	68.07
		For Gate With Single Barb Wire Arm, Add	162.32	
		For Gate With Double Barb Wire Arm, Add	236.10	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-276.68	
		For Aluminized Steel Gate And Post, Add	708.29	
		For Powder Coated Gate And Post, Add	383.66	
		For 1" Mesh Fabric, Add	641.89	
		For 1-1/4" Mesh Fabric, Add	413.17	
		For 1-3/4" Mesh Fabric, Add	256.75	
		For 2-1/8" Mesh Fabric, Deduct	-128.38	
32 31 13 13-0320	EA	12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,990.99	73.72
		For Gate With Single Barb Wire Arm, Add	194.66	
		For Gate With Double Barb Wire Arm, Add	283.14	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-331.80	
		For Aluminized Steel Gate And Post, Add	849.42	
		For Powder Coated Gate And Post, Add	460.10	
		For 1" Mesh Fabric, Add	769.78	
		For 1-1/4" Mesh Fabric, Add	495.49	
		For 1-3/4" Mesh Fabric, Add	307.91	
		For 2-1/8" Mesh Fabric, Deduct	-153.96	
32 31 13 13-0321	EA	14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,373.19	101.25
		For Gate With Single Barb Wire Arm, Add	227.60	
		For Gate With Double Barb Wire Arm, Add	331.06	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-387.96	
		For Aluminized Steel Gate And Post, Add	993.17	
		For Powder Coated Gate And Post, Add	537.97	
		For 1" Mesh Fabric, Add	900.06	
		For 1-1/4" Mesh Fabric, Add	579.35	
		For 1-3/4" Mesh Fabric, Add	360.02	
		For 2-1/8" Mesh Fabric, Deduct	-180.01	
32 31 13 13-0322	EA	16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,690.61	109.09
		For Gate With Single Barb Wire Arm, Add	259.94	
		For Gate With Double Barb Wire Arm, Add	378.10	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-443.09	
		For Aluminized Steel Gate And Post, Add	1,134.30	
		For Powder Coated Gate And Post, Add	614.41	
		For 1" Mesh Fabric, Add	1,027.96	
		For 1-1/4" Mesh Fabric, Add	661.68	
		For 1-3/4" Mesh Fabric, Add	411.18	
		For 2-1/8" Mesh Fabric, Deduct	-205.59	
32 31 13 13-0323	EA	18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,017.38	118.14
		For Gate With Single Barb Wire Arm, Add	292.89	
		For Gate With Double Barb Wire Arm, Add	426.02	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-499.24	
		For Aluminized Steel Gate And Post, Add	1,278.05	
		For Powder Coated Gate And Post, Add	692.28	
		For 1" Mesh Fabric, Add	1,158.23	
		For 1-1/4" Mesh Fabric, Add	745.53	
		For 1-3/4" Mesh Fabric, Add	463.29	
		For 2-1/8" Mesh Fabric, Deduct	-231.65	
32 31 13 13-0324	EA	20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,349.11	128.92
		For Gate With Single Barb Wire Arm, Add	325.83	
		For Gate With Double Barb Wire Arm, Add	473.93	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-555.39	
		For Aluminized Steel Gate And Post, Add	1,421.80	
		For Powder Coated Gate And Post, Add	770.14	
		For 1" Mesh Fabric, Add	1,288.50	
		For 1-1/4" Mesh Fabric, Add	829.38	
		For 1-3/4" Mesh Fabric, Add	515.40	
		For 2-1/8" Mesh Fabric, Deduct	-257.70	



Exterior Improvements			32
Site Improvements			32 30
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0325	EA	22'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,681.84	141.83
			For Gate With Single Barb Wire Arm, Add	358.17	
			For Gate With Double Barb Wire Arm, Add	520.98	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-610.52	
			For Aluminized Steel Gate And Post, Add	1,562.93	
			For Powder Coated Gate And Post, Add	846.59	
			For 1" Mesh Fabric, Add	1,416.41	
			For 1-1/4" Mesh Fabric, Add	911.71	
			For 1-3/4" Mesh Fabric, Add	566.56	
			For 2-1/8" Mesh Fabric, Deduct	-283.28	
32 31 13 13-0326	EA	24'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,025.89	157.52
			For Gate With Single Barb Wire Arm, Add	390.81	
			For Gate With Double Barb Wire Arm, Add	568.46	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-666.16	
			For Aluminized Steel Gate And Post, Add	1,705.37	
			For Powder Coated Gate And Post, Add	923.74	
			For 1" Mesh Fabric, Add	1,545.49	
			For 1-1/4" Mesh Fabric, Add	994.80	
			For 1-3/4" Mesh Fabric, Add	618.20	
			For 2-1/8" Mesh Fabric, Deduct	-309.10	
32 31 13 13-0327	EA	26'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,378.52	177.21
			For Gate With Single Barb Wire Arm, Add	423.10	
			For Gate With Double Barb Wire Arm, Add	615.42	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-721.19	
			For Aluminized Steel Gate And Post, Add	1,846.25	
			For Powder Coated Gate And Post, Add	1,000.05	
			For 1" Mesh Fabric, Add	1,673.16	
			For 1-1/4" Mesh Fabric, Add	1,076.98	
			For 1-3/4" Mesh Fabric, Add	669.26	
			For 2-1/8" Mesh Fabric, Deduct	-334.63	
32 31 13 13-0328	EA	28'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,751.82	202.48
			For Gate With Single Barb Wire Arm, Add	455.80	
			For Gate With Double Barb Wire Arm, Add	662.98	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-776.93	
			For Aluminized Steel Gate And Post, Add	1,988.95	
			For Powder Coated Gate And Post, Add	1,077.35	
			For 1" Mesh Fabric, Add	1,802.48	
			For 1-1/4" Mesh Fabric, Add	1,160.22	
			For 1-3/4" Mesh Fabric, Add	720.99	
			For 2-1/8" Mesh Fabric, Deduct	-360.50	
32 31 13 13-0329	EA	30'	Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	5,151.04	236.28
			For Gate With Single Barb Wire Arm, Add	488.56	
			For Gate With Double Barb Wire Arm, Add	710.64	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-832.78	
			For Aluminized Steel Gate And Post, Add	2,131.92	
			For Powder Coated Gate And Post, Add	1,154.79	
			For 1" Mesh Fabric, Add	1,932.05	
			For 1-1/4" Mesh Fabric, Add	1,243.62	
			For 1-3/4" Mesh Fabric, Add	772.82	
			For 2-1/8" Mesh Fabric, Deduct	-386.41	
32 31 13 13-0330			7' Fence Height (32 31 13 13-0269)		
32 31 13 13-0331	EA	3'	Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	487.86	33.98
			For Gate With Single Barb Wire Arm, Add	42.43	
			For Gate With Double Barb Wire Arm, Add	61.71	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.32	
			For Aluminized Steel Gate And Post, Add	185.13	
			For Powder Coated Gate And Post, Add	100.28	
			For 1" Mesh Fabric, Add	167.78	
			For 1-1/4" Mesh Fabric, Add	107.99	
			For 1-3/4" Mesh Fabric, Add	67.11	
			For 2-1/8" Mesh Fabric, Deduct	-33.56	
32 31 13 13-0332	EA	4'	Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	614.91	33.98
			For Gate With Single Barb Wire Arm, Add	56.40	
			For Gate With Double Barb Wire Arm, Add	82.04	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-96.14	
			For Aluminized Steel Gate And Post, Add	246.12	
			For Powder Coated Gate And Post, Add	133.31	
			For 1" Mesh Fabric, Add	223.04	
			For 1-1/4" Mesh Fabric, Add	143.57	
			For 1-3/4" Mesh Fabric, Add	89.22	
			For 2-1/8" Mesh Fabric, Deduct	-44.61	
32 31 13 13-0333	EA	5'	Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	723.02	35.75
			For Gate With Single Barb Wire Arm, Add	67.72	
			For Gate With Double Barb Wire Arm, Add	98.50	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-115.43	
			For Aluminized Steel Gate And Post, Add	295.51	
			For Powder Coated Gate And Post, Add	160.07	
			For 1" Mesh Fabric, Add	267.81	
			For 1-1/4" Mesh Fabric, Add	172.38	
			For 1-3/4" Mesh Fabric, Add	107.12	
			For 2-1/8" Mesh Fabric, Deduct	-53.56	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0334	EA	6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	886.01	43.50
		For Gate With Single Barb Wire Arm, Add	83.09	
		For Gate With Double Barb Wire Arm, Add	120.86	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.64	
		For Aluminized Steel Gate And Post, Add	362.59	
		For Powder Coated Gate And Post, Add	196.40	
		For 1" Mesh Fabric, Add	328.60	
		For 1-1/4" Mesh Fabric, Add	211.51	
		For 1-3/4" Mesh Fabric, Add	131.44	
		For 2-1/8" Mesh Fabric, Deduct	-65.72	
32 31 13 13-0335	EA	7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,047.95	50.91
		For Gate With Single Barb Wire Arm, Add	98.47	
		For Gate With Double Barb Wire Arm, Add	143.23	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-167.85	
		For Aluminized Steel Gate And Post, Add	429.70	
		For Powder Coated Gate And Post, Add	232.75	
		For 1" Mesh Fabric, Add	389.41	
		For 1-1/4" Mesh Fabric, Add	250.66	
		For 1-3/4" Mesh Fabric, Add	155.76	
		For 2-1/8" Mesh Fabric, Deduct	-77.88	
32 31 13 13-0336	EA	8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,210.96	58.55
		For Gate With Single Barb Wire Arm, Add	113.85	
		For Gate With Double Barb Wire Arm, Add	165.59	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-194.06	
		For Aluminized Steel Gate And Post, Add	496.78	
		For Powder Coated Gate And Post, Add	269.09	
		For 1" Mesh Fabric, Add	450.21	
		For 1-1/4" Mesh Fabric, Add	289.79	
		For 1-3/4" Mesh Fabric, Add	180.08	
		For 2-1/8" Mesh Fabric, Deduct	-90.04	
32 31 13 13-0337	EA	9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,372.88	65.97
		For Gate With Single Barb Wire Arm, Add	129.22	
		For Gate With Double Barb Wire Arm, Add	187.96	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-220.27	
		For Aluminized Steel Gate And Post, Add	563.88	
		For Powder Coated Gate And Post, Add	305.44	
		For 1" Mesh Fabric, Add	511.02	
		For 1-1/4" Mesh Fabric, Add	328.93	
		For 1-3/4" Mesh Fabric, Add	204.41	
		For 2-1/8" Mesh Fabric, Deduct	-102.20	
32 31 13 13-0338	EA	10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,510.70	73.72
		For Gate With Single Barb Wire Arm, Add	141.83	
		For Gate With Double Barb Wire Arm, Add	206.29	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.75	
		For Aluminized Steel Gate And Post, Add	618.88	
		For Powder Coated Gate And Post, Add	335.23	
		For 1" Mesh Fabric, Add	560.86	
		For 1-1/4" Mesh Fabric, Add	361.01	
		For 1-3/4" Mesh Fabric, Add	224.34	
		For 2-1/8" Mesh Fabric, Deduct	-112.17	
32 31 13 13-0339	EA	10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,913.78	73.72
		For Gate With Single Barb Wire Arm, Add	186.17	
		For Gate With Double Barb Wire Arm, Add	270.79	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-317.33	
		For Aluminized Steel Gate And Post, Add	812.36	
		For Powder Coated Gate And Post, Add	440.03	
		For 1" Mesh Fabric, Add	736.20	
		For 1-1/4" Mesh Fabric, Add	473.87	
		For 1-3/4" Mesh Fabric, Add	294.48	
		For 2-1/8" Mesh Fabric, Deduct	-147.24	
32 31 13 13-0340	EA	12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,185.91	101.25
		For Gate With Single Barb Wire Arm, Add	207.00	
		For Gate With Double Barb Wire Arm, Add	301.09	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-352.84	
		For Aluminized Steel Gate And Post, Add	903.27	
		For Powder Coated Gate And Post, Add	489.27	
		For 1" Mesh Fabric, Add	818.59	
		For 1-1/4" Mesh Fabric, Add	526.91	
		For 1-3/4" Mesh Fabric, Add	327.44	
		For 2-1/8" Mesh Fabric, Deduct	-163.72	
32 31 13 13-0341	EA	14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,522.94	109.09
		For Gate With Single Barb Wire Arm, Add	241.50	
		For Gate With Double Barb Wire Arm, Add	351.27	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-411.65	
		For Aluminized Steel Gate And Post, Add	1,053.82	
		For Powder Coated Gate And Post, Add	570.82	
		For 1" Mesh Fabric, Add	955.03	
		For 1-1/4" Mesh Fabric, Add	614.73	
		For 1-3/4" Mesh Fabric, Add	382.01	
		For 2-1/8" Mesh Fabric, Deduct	-191.01	



Exterior Improvements			32
Site Improvements			32 30
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0342	EA	16'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,837.70	118.14
			For Gate With Single Barb Wire Arm, Add	273.12	
			For Gate With Double Barb Wire Arm, Add	397.27	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-465.55	
			For Aluminized Steel Gate And Post, Add	1,191.80	
			For Powder Coated Gate And Post, Add	645.56	
			For 1" Mesh Fabric, Add	1,080.07	
			For 1-1/4" Mesh Fabric, Add	695.22	
			For 1-3/4" Mesh Fabric, Add	432.03	
			For 2-1/8" Mesh Fabric, Deduct	-216.01	
32 31 13 13-0343	EA	18'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,185.76	128.92
			For Gate With Single Barb Wire Arm, Add	307.86	
			For Gate With Double Barb Wire Arm, Add	447.80	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-524.76	
			For Aluminized Steel Gate And Post, Add	1,343.39	
			For Powder Coated Gate And Post, Add	727.67	
			For 1" Mesh Fabric, Add	1,217.45	
			For 1-1/4" Mesh Fabric, Add	783.64	
			For 1-3/4" Mesh Fabric, Add	486.98	
			For 2-1/8" Mesh Fabric, Deduct	-243.49	
32 31 13 13-0344	EA	20'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,534.83	141.83
			For Gate With Single Barb Wire Arm, Add	342.00	
			For Gate With Double Barb Wire Arm, Add	497.46	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-582.96	
			For Aluminized Steel Gate And Post, Add	1,492.37	
			For Powder Coated Gate And Post, Add	808.37	
			For 1" Mesh Fabric, Add	1,352.46	
			For 1-1/4" Mesh Fabric, Add	870.55	
			For 1-3/4" Mesh Fabric, Add	540.98	
			For 2-1/8" Mesh Fabric, Deduct	-270.49	
32 31 13 13-0345	EA	22'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,892.49	157.52
			For Gate With Single Barb Wire Arm, Add	376.14	
			For Gate With Double Barb Wire Arm, Add	547.11	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-641.15	
			For Aluminized Steel Gate And Post, Add	1,641.34	
			For Powder Coated Gate And Post, Add	889.06	
			For 1" Mesh Fabric, Add	1,487.47	
			For 1-1/4" Mesh Fabric, Add	957.45	
			For 1-3/4" Mesh Fabric, Add	594.99	
			For 2-1/8" Mesh Fabric, Deduct	-297.49	
32 31 13 13-0346	EA	24'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,261.99	177.21
			For Gate With Single Barb Wire Arm, Add	410.28	
			For Gate With Double Barb Wire Arm, Add	596.77	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-699.34	
			For Aluminized Steel Gate And Post, Add	1,790.31	
			For Powder Coated Gate And Post, Add	969.75	
			For 1" Mesh Fabric, Add	1,622.47	
			For 1-1/4" Mesh Fabric, Add	1,044.35	
			For 1-3/4" Mesh Fabric, Add	648.99	
			For 2-1/8" Mesh Fabric, Deduct	-324.49	
32 31 13 13-0347	EA	26'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,648.37	202.48
			For Gate With Single Barb Wire Arm, Add	444.42	
			For Gate With Double Barb Wire Arm, Add	646.43	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-757.54	
			For Aluminized Steel Gate And Post, Add	1,939.29	
			For Powder Coated Gate And Post, Add	1,050.45	
			For 1" Mesh Fabric, Add	1,757.48	
			For 1-1/4" Mesh Fabric, Add	1,131.25	
			For 1-3/4" Mesh Fabric, Add	702.99	
			For 2-1/8" Mesh Fabric, Deduct	-351.50	
32 31 13 13-0348	EA	28'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,060.11	236.28
			For Gate With Single Barb Wire Arm, Add	478.56	
			For Gate With Double Barb Wire Arm, Add	696.09	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-815.73	
			For Aluminized Steel Gate And Post, Add	2,088.27	
			For Powder Coated Gate And Post, Add	1,131.15	
			For 1" Mesh Fabric, Add	1,892.49	
			For 1-1/4" Mesh Fabric, Add	1,218.16	
			For 1-3/4" Mesh Fabric, Add	757.00	
			For 2-1/8" Mesh Fabric, Deduct	-378.50	
32 31 13 13-0349	EA	30'	Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,512.38	283.51
			For Gate With Single Barb Wire Arm, Add	512.70	
			For Gate With Double Barb Wire Arm, Add	745.75	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-873.92	
			For Aluminized Steel Gate And Post, Add	2,237.24	
			For Powder Coated Gate And Post, Add	1,211.84	
			For 1" Mesh Fabric, Add	2,027.50	
			For 1-1/4" Mesh Fabric, Add	1,305.06	
			For 1-3/4" Mesh Fabric, Add	811.00	
			For 2-1/8" Mesh Fabric, Deduct	-405.50	

32 31 13 13-0350 8' Fence Height (32 31 13 13-0269)

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0351	EA	3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	571.31	36.86
			For Gate With Single Barb Wire Arm, Add	50.67	
			For Gate With Double Barb Wire Arm, Add	73.70	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-86.37	
			For Aluminized Steel Gate And Post, Add	221.10	
			For Powder Coated Gate And Post, Add	119.76	
			For 1" Mesh Fabric, Add	200.37	
			For 1-1/4" Mesh Fabric, Add	128.97	
			For 1-3/4" Mesh Fabric, Add	80.15	
			For 2-1/8" Mesh Fabric, Deduct	-40.07	
32 31 13	13-0352	EA	4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	724.86	36.86
			For Gate With Single Barb Wire Arm, Add	67.56	
			For Gate With Double Barb Wire Arm, Add	98.27	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-115.16	
			For Aluminized Steel Gate And Post, Add	294.80	
			For Powder Coated Gate And Post, Add	159.68	
			For 1" Mesh Fabric, Add	267.16	
			For 1-1/4" Mesh Fabric, Add	171.97	
			For 1-3/4" Mesh Fabric, Add	106.87	
			For 2-1/8" Mesh Fabric, Deduct	-53.43	
32 31 13	13-0353	EA	5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	845.74	41.07
			For Gate With Single Barb Wire Arm, Add	79.46	
			For Gate With Double Barb Wire Arm, Add	115.57	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-135.44	
			For Aluminized Steel Gate And Post, Add	346.71	
			For Powder Coated Gate And Post, Add	187.80	
			For 1" Mesh Fabric, Add	314.21	
			For 1-1/4" Mesh Fabric, Add	202.25	
			For 1-3/4" Mesh Fabric, Add	125.68	
			For 2-1/8" Mesh Fabric, Deduct	-62.84	
32 31 13	13-0354	EA	6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	969.96	46.49
			For Gate With Single Barb Wire Arm, Add	91.36	
			For Gate With Double Barb Wire Arm, Add	132.88	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-155.72	
			For Aluminized Steel Gate And Post, Add	398.64	
			For Powder Coated Gate And Post, Add	215.93	
			For 1" Mesh Fabric, Add	361.27	
			For 1-1/4" Mesh Fabric, Add	232.54	
			For 1-3/4" Mesh Fabric, Add	144.51	
			For 2-1/8" Mesh Fabric, Deduct	-72.25	
32 31 13	13-0355	EA	7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,106.91	56.01
			For Gate With Single Barb Wire Arm, Add	103.25	
			For Gate With Double Barb Wire Arm, Add	150.19	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-176.00	
			For Aluminized Steel Gate And Post, Add	450.56	
			For Powder Coated Gate And Post, Add	244.05	
			For 1" Mesh Fabric, Add	408.32	
			For 1-1/4" Mesh Fabric, Add	262.83	
			For 1-3/4" Mesh Fabric, Add	163.33	
			For 2-1/8" Mesh Fabric, Deduct	-81.66	
32 31 13	13-0356	EA	8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,242.77	65.19
			For Gate With Single Barb Wire Arm, Add	115.15	
			For Gate With Double Barb Wire Arm, Add	167.50	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-196.28	
			For Aluminized Steel Gate And Post, Add	502.49	
			For Powder Coated Gate And Post, Add	272.18	
			For 1" Mesh Fabric, Add	455.38	
			For 1-1/4" Mesh Fabric, Add	293.12	
			For 1-3/4" Mesh Fabric, Add	182.15	
			For 2-1/8" Mesh Fabric, Deduct	-91.08	
32 31 13	13-0357	EA	9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,379.72	74.83
			For Gate With Single Barb Wire Arm, Add	127.05	
			For Gate With Double Barb Wire Arm, Add	184.80	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-216.57	
			For Aluminized Steel Gate And Post, Add	554.41	
			For Powder Coated Gate And Post, Add	300.31	
			For 1" Mesh Fabric, Add	502.43	
			For 1-1/4" Mesh Fabric, Add	323.41	
			For 1-3/4" Mesh Fabric, Add	200.97	
			For 2-1/8" Mesh Fabric, Deduct	-100.49	
32 31 13	13-0358	EA	10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,516.65	84.46
			For Gate With Single Barb Wire Arm, Add	138.95	
			For Gate With Double Barb Wire Arm, Add	202.11	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-236.85	
			For Aluminized Steel Gate And Post, Add	606.33	
			For Powder Coated Gate And Post, Add	328.43	
			For 1" Mesh Fabric, Add	549.49	
			For 1-1/4" Mesh Fabric, Add	353.69	
			For 1-3/4" Mesh Fabric, Add	219.80	
			For 2-1/8" Mesh Fabric, Deduct	-109.90	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0359 EA 10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,198.91	101.25
For Gate With Single Barb Wire Arm, Add	208.43	
For Gate With Double Barb Wire Arm, Add	303.17	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-355.28	
For Aluminized Steel Gate And Post, Add	909.51	
For Powder Coated Gate And Post, Add	492.65	
For 1" Mesh Fabric, Add	824.25	
For 1-1/4" Mesh Fabric, Add	530.55	
For 1-3/4" Mesh Fabric, Add	329.70	
For 2-1/8" Mesh Fabric, Deduct	-164.85	
32 31 13 13-0360 EA 12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,587.16	109.09
For Gate With Single Barb Wire Arm, Add	248.56	
For Gate With Double Barb Wire Arm, Add	361.55	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-423.69	
For Aluminized Steel Gate And Post, Add	1,084.65	
For Powder Coated Gate And Post, Add	587.52	
For 1" Mesh Fabric, Add	982.96	
For 1-1/4" Mesh Fabric, Add	632.71	
For 1-3/4" Mesh Fabric, Add	393.18	
For 2-1/8" Mesh Fabric, Deduct	-196.59	
32 31 13 13-0361 EA 14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,984.72	118.14
For Gate With Single Barb Wire Arm, Add	289.29	
For Gate With Double Barb Wire Arm, Add	420.79	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-493.11	
For Aluminized Steel Gate And Post, Add	1,262.37	
For Powder Coated Gate And Post, Add	683.78	
For 1" Mesh Fabric, Add	1,144.02	
For 1-1/4" Mesh Fabric, Add	736.38	
For 1-3/4" Mesh Fabric, Add	457.61	
For 2-1/8" Mesh Fabric, Deduct	-228.80	
32 31 13 13-0362 EA 16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,398.11	128.92
For Gate With Single Barb Wire Arm, Add	331.22	
For Gate With Double Barb Wire Arm, Add	481.77	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-564.58	
For Aluminized Steel Gate And Post, Add	1,445.32	
For Powder Coated Gate And Post, Add	782.88	
For 1" Mesh Fabric, Add	1,309.82	
For 1-1/4" Mesh Fabric, Add	843.10	
For 1-3/4" Mesh Fabric, Add	523.93	
For 2-1/8" Mesh Fabric, Deduct	-261.96	
32 31 13 13-0363 EA 18' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,817.97	141.83
For Gate With Single Barb Wire Arm, Add	373.15	
For Gate With Double Barb Wire Arm, Add	542.76	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-636.05	
For Aluminized Steel Gate And Post, Add	1,628.28	
For Powder Coated Gate And Post, Add	881.98	
For 1" Mesh Fabric, Add	1,475.62	
For 1-1/4" Mesh Fabric, Add	949.83	
For 1-3/4" Mesh Fabric, Add	590.25	
For 2-1/8" Mesh Fabric, Deduct	-295.12	
32 31 13 13-0364 EA 20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,240.97	157.52
For Gate With Single Barb Wire Arm, Add	414.47	
For Gate With Double Barb Wire Arm, Add	602.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-706.49	
For Aluminized Steel Gate And Post, Add	1,808.61	
For Powder Coated Gate And Post, Add	979.66	
For 1" Mesh Fabric, Add	1,639.05	
For 1-1/4" Mesh Fabric, Add	1,055.02	
For 1-3/4" Mesh Fabric, Add	655.62	
For 2-1/8" Mesh Fabric, Deduct	-327.81	
32 31 13 13-0365 EA 22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,670.37	177.21
For Gate With Single Barb Wire Arm, Add	455.20	
For Gate With Double Barb Wire Arm, Add	662.11	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-775.91	
For Aluminized Steel Gate And Post, Add	1,986.34	
For Powder Coated Gate And Post, Add	1,075.93	
For 1" Mesh Fabric, Add	1,800.12	
For 1-1/4" Mesh Fabric, Add	1,158.70	
For 1-3/4" Mesh Fabric, Add	720.05	
For 2-1/8" Mesh Fabric, Deduct	-360.02	
32 31 13 13-0366 EA 24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,127.53	202.48
For Gate With Single Barb Wire Arm, Add	497.13	
For Gate With Double Barb Wire Arm, Add	723.10	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-847.38	
For Aluminized Steel Gate And Post, Add	2,169.29	
For Powder Coated Gate And Post, Add	1,175.03	
For 1" Mesh Fabric, Add	1,965.92	
For 1-1/4" Mesh Fabric, Add	1,265.42	
For 1-3/4" Mesh Fabric, Add	786.37	
For 2-1/8" Mesh Fabric, Deduct	-393.18	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0367	EA	26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,610.05	236.28
		For Gate With Single Barb Wire Arm, Add	539.06	
		For Gate With Double Barb Wire Arm, Add	784.08	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-918.84	
		For Aluminized Steel Gate And Post, Add	2,352.24	
		For Powder Coated Gate And Post, Add	1,274.13	
		For 1" Mesh Fabric, Add	2,131.72	
		For 1-1/4" Mesh Fabric, Add	1,372.14	
		For 1-3/4" Mesh Fabric, Add	852.69	
		For 2-1/8" Mesh Fabric, Deduct	-426.34	
32 31 13 13-0368	EA	28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,127.66	283.51
		For Gate With Single Barb Wire Arm, Add	580.38	
		For Gate With Double Barb Wire Arm, Add	844.19	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-989.29	
		For Aluminized Steel Gate And Post, Add	2,532.58	
		For Powder Coated Gate And Post, Add	1,371.81	
		For 1" Mesh Fabric, Add	2,295.15	
		For 1-1/4" Mesh Fabric, Add	1,477.34	
		For 1-3/4" Mesh Fabric, Add	918.06	
		For 2-1/8" Mesh Fabric, Deduct	-459.03	
32 31 13 13-0369	EA	30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,716.23	354.42
		For Gate With Single Barb Wire Arm, Add	621.71	
		For Gate With Double Barb Wire Arm, Add	904.31	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,059.73	
		For Aluminized Steel Gate And Post, Add	2,712.92	
		For Powder Coated Gate And Post, Add	1,469.50	
		For 1" Mesh Fabric, Add	2,458.58	
		For 1-1/4" Mesh Fabric, Add	1,582.53	
		For 1-3/4" Mesh Fabric, Add	983.43	
		For 2-1/8" Mesh Fabric, Deduct	-491.72	
32 31 13 13-0370 10' Fence Height (32 31 13 13-0269)				
32 31 13 13-0371	EA	3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	718.63	40.95
		For Gate With Single Barb Wire Arm, Add	65.52	
		For Gate With Double Barb Wire Arm, Add	95.30	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-111.68	
		For Aluminized Steel Gate And Post, Add	285.91	
		For Powder Coated Gate And Post, Add	154.87	
		For 1" Mesh Fabric, Add	259.11	
		For 1-1/4" Mesh Fabric, Add	166.78	
		For 1-3/4" Mesh Fabric, Add	103.64	
		For 2-1/8" Mesh Fabric, Deduct	-51.82	
32 31 13 13-0372	EA	4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	917.17	40.95
		For Gate With Single Barb Wire Arm, Add	87.36	
		For Gate With Double Barb Wire Arm, Add	127.07	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-148.91	
		For Aluminized Steel Gate And Post, Add	381.21	
		For Powder Coated Gate And Post, Add	206.49	
		For 1" Mesh Fabric, Add	345.47	
		For 1-1/4" Mesh Fabric, Add	222.37	
		For 1-3/4" Mesh Fabric, Add	138.19	
		For 2-1/8" Mesh Fabric, Deduct	-69.09	
32 31 13 13-0373	EA	5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,062.48	42.73
		For Gate With Single Barb Wire Arm, Add	102.75	
		For Gate With Double Barb Wire Arm, Add	149.45	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.14	
		For Aluminized Steel Gate And Post, Add	448.36	
		For Powder Coated Gate And Post, Add	242.86	
		For 1" Mesh Fabric, Add	406.33	
		For 1-1/4" Mesh Fabric, Add	261.55	
		For 1-3/4" Mesh Fabric, Add	162.53	
		For 2-1/8" Mesh Fabric, Deduct	-81.27	
32 31 13 13-0374	EA	6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,233.37	53.13
		For Gate With Single Barb Wire Arm, Add	118.14	
		For Gate With Double Barb Wire Arm, Add	171.84	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-201.37	
		For Aluminized Steel Gate And Post, Add	515.51	
		For Powder Coated Gate And Post, Add	279.23	
		For 1" Mesh Fabric, Add	467.18	
		For 1-1/4" Mesh Fabric, Add	300.71	
		For 1-3/4" Mesh Fabric, Add	186.87	
		For 2-1/8" Mesh Fabric, Deduct	-93.44	
32 31 13 13-0375	EA	7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,403.58	62.99
		For Gate With Single Barb Wire Arm, Add	133.52	
		For Gate With Double Barb Wire Arm, Add	194.21	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-227.59	
		For Aluminized Steel Gate And Post, Add	582.64	
		For Powder Coated Gate And Post, Add	315.60	
		For 1" Mesh Fabric, Add	528.02	
		For 1-1/4" Mesh Fabric, Add	339.87	
		For 1-3/4" Mesh Fabric, Add	211.21	
		For 2-1/8" Mesh Fabric, Deduct	-105.60	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0376	EA	8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,573.98	73.39
			For Gate With Single Barb Wire Arm, Add	148.91	
			For Gate With Double Barb Wire Arm, Add	216.60	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-253.82	
			For Aluminized Steel Gate And Post, Add	649.79	
			For Powder Coated Gate And Post, Add	351.97	
			For 1" Mesh Fabric, Add	588.87	
			For 1-1/4" Mesh Fabric, Add	379.04	
			For 1-3/4" Mesh Fabric, Add	235.55	
			For 2-1/8" Mesh Fabric, Deduct	-117.77	
32 31 13	13-0377	EA	9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,743.75	83.35
			For Gate With Single Barb Wire Arm, Add	164.30	
			For Gate With Double Barb Wire Arm, Add	238.98	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-280.05	
			For Aluminized Steel Gate And Post, Add	716.93	
			For Powder Coated Gate And Post, Add	388.34	
			For 1" Mesh Fabric, Add	649.72	
			For 1-1/4" Mesh Fabric, Add	418.21	
			For 1-3/4" Mesh Fabric, Add	259.89	
			For 2-1/8" Mesh Fabric, Deduct	-129.94	
32 31 13	13-0378	EA	10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,914.65	93.64
			For Gate With Single Barb Wire Arm, Add	179.69	
			For Gate With Double Barb Wire Arm, Add	261.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-306.28	
			For Aluminized Steel Gate And Post, Add	784.08	
			For Powder Coated Gate And Post, Add	424.71	
			For 1" Mesh Fabric, Add	710.57	
			For 1-1/4" Mesh Fabric, Add	457.38	
			For 1-3/4" Mesh Fabric, Add	284.23	
			For 2-1/8" Mesh Fabric, Deduct	-142.11	
32 31 13	13-0379	EA	10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,788.12	112.55
			For Gate With Single Barb Wire Arm, Add	269.53	
			For Gate With Double Barb Wire Arm, Add	392.04	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-459.42	
			For Aluminized Steel Gate And Post, Add	1,176.11	
			For Powder Coated Gate And Post, Add	637.06	
			For 1" Mesh Fabric, Add	1,065.85	
			For 1-1/4" Mesh Fabric, Add	686.06	
			For 1-3/4" Mesh Fabric, Add	426.34	
			For 2-1/8" Mesh Fabric, Deduct	-213.17	
32 31 13	13-0380	EA	12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,031.84	121.07
			For Gate With Single Barb Wire Arm, Add	293.49	
			For Gate With Double Barb Wire Arm, Add	426.89	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-500.27	
			For Aluminized Steel Gate And Post, Add	1,280.68	
			For Powder Coated Gate And Post, Add	693.70	
			For 1" Mesh Fabric, Add	1,160.62	
			For 1-1/4" Mesh Fabric, Add	747.07	
			For 1-3/4" Mesh Fabric, Add	464.25	
			For 2-1/8" Mesh Fabric, Deduct	-232.12	
32 31 13	13-0381	EA	14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,454.28	131.31
			For Gate With Single Barb Wire Arm, Add	336.61	
			For Gate With Double Barb Wire Arm, Add	489.61	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-573.77	
			For Aluminized Steel Gate And Post, Add	1,468.84	
			For Powder Coated Gate And Post, Add	795.62	
			For 1" Mesh Fabric, Add	1,331.14	
			For 1-1/4" Mesh Fabric, Add	856.83	
			For 1-3/4" Mesh Fabric, Add	532.46	
			For 2-1/8" Mesh Fabric, Deduct	-266.23	
32 31 13	13-0382	EA	16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,925.55	143.16
			For Gate With Single Barb Wire Arm, Add	384.53	
			For Gate With Double Barb Wire Arm, Add	559.31	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-655.44	
			For Aluminized Steel Gate And Post, Add	1,677.93	
			For Powder Coated Gate And Post, Add	908.88	
			For 1" Mesh Fabric, Add	1,520.63	
			For 1-1/4" Mesh Fabric, Add	978.79	
			For 1-3/4" Mesh Fabric, Add	608.25	
			For 2-1/8" Mesh Fabric, Deduct	-304.13	
32 31 13	13-0383	EA	18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,404.32	157.52
			For Gate With Single Barb Wire Arm, Add	432.44	
			For Gate With Double Barb Wire Arm, Add	629.01	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-737.12	
			For Aluminized Steel Gate And Post, Add	1,887.02	
			For Powder Coated Gate And Post, Add	1,022.14	
			For 1" Mesh Fabric, Add	1,710.11	
			For 1-1/4" Mesh Fabric, Add	1,100.76	
			For 1-3/4" Mesh Fabric, Add	684.04	
			For 2-1/8" Mesh Fabric, Deduct	-342.02	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0384 EA 20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,894.94	174.95
For Gate With Single Barb Wire Arm, Add	480.66	
For Gate With Double Barb Wire Arm, Add	699.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-819.30	
For Aluminized Steel Gate And Post, Add	2,097.41	
For Powder Coated Gate And Post, Add	1,136.10	
For 1" Mesh Fabric, Add	1,900.78	
For 1-1/4" Mesh Fabric, Add	1,223.49	
For 1-3/4" Mesh Fabric, Add	760.31	
For 2-1/8" Mesh Fabric, Deduct	-380.16	
32 31 13 13-0385 EA 22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,399.23	196.90
For Gate With Single Barb Wire Arm, Add	528.87	
For Gate With Double Barb Wire Arm, Add	769.27	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-901.49	
For Aluminized Steel Gate And Post, Add	2,307.81	
For Powder Coated Gate And Post, Add	1,250.06	
For 1" Mesh Fabric, Add	2,091.45	
For 1-1/4" Mesh Fabric, Add	1,346.22	
For 1-3/4" Mesh Fabric, Add	836.58	
For 2-1/8" Mesh Fabric, Deduct	-418.29	
32 31 13 13-0386 EA 24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,918.88	224.84
For Gate With Single Barb Wire Arm, Add	576.79	
For Gate With Double Barb Wire Arm, Add	838.97	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-983.16	
For Aluminized Steel Gate And Post, Add	2,516.90	
For Powder Coated Gate And Post, Add	1,363.32	
For 1" Mesh Fabric, Add	2,280.94	
For 1-1/4" Mesh Fabric, Add	1,468.19	
For 1-3/4" Mesh Fabric, Add	912.38	
For 2-1/8" Mesh Fabric, Deduct	-456.19	
32 31 13 13-0387 EA 26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,467.53	262.49
For Gate With Single Barb Wire Arm, Add	624.71	
For Gate With Double Barb Wire Arm, Add	908.66	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,064.84	
For Aluminized Steel Gate And Post, Add	2,725.99	
For Powder Coated Gate And Post, Add	1,476.58	
For 1" Mesh Fabric, Add	2,470.43	
For 1-1/4" Mesh Fabric, Add	1,590.16	
For 1-3/4" Mesh Fabric, Add	988.17	
For 2-1/8" Mesh Fabric, Deduct	-494.09	
32 31 13 13-0388 EA 28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,059.96	314.78
For Gate With Single Barb Wire Arm, Add	672.62	
For Gate With Double Barb Wire Arm, Add	978.36	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,146.51	
For Aluminized Steel Gate And Post, Add	2,935.08	
For Powder Coated Gate And Post, Add	1,589.83	
For 1" Mesh Fabric, Add	2,659.91	
For 1-1/4" Mesh Fabric, Add	1,712.13	
For 1-3/4" Mesh Fabric, Add	1,063.96	
For 2-1/8" Mesh Fabric, Deduct	-531.98	
32 31 13 13-0389 EA 30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,738.36	393.80
For Gate With Single Barb Wire Arm, Add	721.14	
For Gate With Double Barb Wire Arm, Add	1,048.92	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,229.21	
For Aluminized Steel Gate And Post, Add	3,146.77	
For Powder Coated Gate And Post, Add	1,704.50	
For 1" Mesh Fabric, Add	2,851.76	
For 1-1/4" Mesh Fabric, Add	1,835.62	
For 1-3/4" Mesh Fabric, Add	1,140.71	
For 2-1/8" Mesh Fabric, Deduct	-570.35	
32 31 13 13-0390 12' Fence Height (32 31 13 13-0269)		
32 31 13 13-0391 EA 3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	899.08	45.49
For Gate With Single Barb Wire Arm, Add	83.87	
For Gate With Double Barb Wire Arm, Add	121.99	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-142.96	
For Aluminized Steel Gate And Post, Add	365.97	
For Powder Coated Gate And Post, Add	198.23	
For 1" Mesh Fabric, Add	331.66	
For 1-1/4" Mesh Fabric, Add	213.48	
For 1-3/4" Mesh Fabric, Add	132.66	
For 2-1/8" Mesh Fabric, Deduct	-66.33	
32 31 13 13-0392 EA 4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,153.21	45.49
For Gate With Single Barb Wire Arm, Add	111.82	
For Gate With Double Barb Wire Arm, Add	162.65	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-190.61	
For Aluminized Steel Gate And Post, Add	487.95	
For Powder Coated Gate And Post, Add	264.31	
For 1" Mesh Fabric, Add	442.20	
For 1-1/4" Mesh Fabric, Add	284.64	
For 1-3/4" Mesh Fabric, Add	176.88	
For 2-1/8" Mesh Fabric, Deduct	-88.44	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0393	EA 5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,337.31 131.52 191.30 -224.18 573.90 310.86 520.10 334.78 208.04 -104.02	47.16
32 31	13	13-0394	EA 6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,550.68 151.21 219.95 -257.75 659.85 357.42 597.99 384.91 239.19 -119.60	58.55
32 31	13	13-0395	EA 7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	720.88 56.16 81.69 -95.73 245.07 132.75 222.10 142.96 88.84 -44.42	70.07
32 31	13	13-0396	EA 8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	812.93 62.64 91.11 -106.76 273.32 148.05 247.69 159.43 99.08 -49.54	81.14
32 31	13	13-0397	EA 9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	906.08 69.11 100.52 -117.80 301.56 163.35 273.29 175.91 109.32 -54.66	92.53
32 31	13	13-0398	EA 10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	999.23 75.58 109.93 -128.83 329.80 178.64 298.88 192.38 119.55 -59.78	103.94
32 31	13	13-0399	EA 10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,332.71 105.30 153.17 -179.49 459.50 248.90 416.42 268.04 166.57 -83.28	125.06
32 31	13	13-0400	EA 12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,456.19 115.73 168.34 -197.27 505.02 273.55 457.67 294.59 183.07 -91.53	134.64

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0401	EA	14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,644.00	145.81
		For Gate With Single Barb Wire Arm, Add	132.66	
		For Gate With Double Barb Wire Arm, Add	192.96	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.13	
		For Aluminized Steel Gate And Post, Add	578.88	
		For Powder Coated Gate And Post, Add	313.56	
		For 1" Mesh Fabric, Add	524.61	
		For 1-1/4" Mesh Fabric, Add	337.68	
		For 1-3/4" Mesh Fabric, Add	209.84	
		For 2-1/8" Mesh Fabric, Deduct	-104.92	
32 31 13 13-0402	EA	16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,855.48	158.99
		For Gate With Single Barb Wire Arm, Add	151.56	
		For Gate With Double Barb Wire Arm, Add	220.44	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-258.33	
		For Aluminized Steel Gate And Post, Add	661.33	
		For Powder Coated Gate And Post, Add	358.22	
		For 1" Mesh Fabric, Add	599.33	
		For 1-1/4" Mesh Fabric, Add	385.78	
		For 1-3/4" Mesh Fabric, Add	239.73	
		For 2-1/8" Mesh Fabric, Deduct	-119.87	
32 31 13 13-0403	EA	18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,240.70	175.09
		For Gate With Single Barb Wire Arm, Add	518.69	
		For Gate With Double Barb Wire Arm, Add	754.46	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-884.13	
		For Aluminized Steel Gate And Post, Add	2,263.38	
		For Powder Coated Gate And Post, Add	1,226.00	
		For 1" Mesh Fabric, Add	2,051.19	
		For 1-1/4" Mesh Fabric, Add	1,320.30	
		For 1-3/4" Mesh Fabric, Add	820.47	
		For 2-1/8" Mesh Fabric, Deduct	-410.24	
32 31 13 13-0404	EA	20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,827.05	194.37
		For Gate With Single Barb Wire Arm, Add	576.79	
		For Gate With Double Barb Wire Arm, Add	838.97	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-983.16	
		For Aluminized Steel Gate And Post, Add	2,516.90	
		For Powder Coated Gate And Post, Add	1,363.32	
		For 1" Mesh Fabric, Add	2,280.94	
		For 1-1/4" Mesh Fabric, Add	1,468.19	
		For 1-3/4" Mesh Fabric, Add	912.38	
		For 2-1/8" Mesh Fabric, Deduct	-456.19	
32 31 13 13-0405	EA	22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,423.25	218.72
		For Gate With Single Barb Wire Arm, Add	634.29	
		For Gate With Double Barb Wire Arm, Add	922.60	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,081.17	
		For Aluminized Steel Gate And Post, Add	2,767.80	
		For Powder Coated Gate And Post, Add	1,499.23	
		For 1" Mesh Fabric, Add	2,508.32	
		For 1-1/4" Mesh Fabric, Add	1,614.55	
		For 1-3/4" Mesh Fabric, Add	1,003.33	
		For 2-1/8" Mesh Fabric, Deduct	-501.66	
32 31 13 13-0406	EA	24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,044.79	249.85
		For Gate With Single Barb Wire Arm, Add	692.39	
		For Gate With Double Barb Wire Arm, Add	1,007.11	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,180.20	
		For Aluminized Steel Gate And Post, Add	3,021.32	
		For Powder Coated Gate And Post, Add	1,636.55	
		For 1" Mesh Fabric, Add	2,738.07	
		For 1-1/4" Mesh Fabric, Add	1,762.44	
		For 1-3/4" Mesh Fabric, Add	1,095.23	
		For 2-1/8" Mesh Fabric, Deduct	-547.61	
32 31 13 13-0407	EA	26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,687.69	291.76
		For Gate With Single Barb Wire Arm, Add	749.29	
		For Gate With Double Barb Wire Arm, Add	1,089.87	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,277.19	
		For Aluminized Steel Gate And Post, Add	3,269.62	
		For Powder Coated Gate And Post, Add	1,771.04	
		For 1" Mesh Fabric, Add	2,963.09	
		For 1-1/4" Mesh Fabric, Add	1,907.28	
		For 1-3/4" Mesh Fabric, Add	1,185.24	
		For 2-1/8" Mesh Fabric, Deduct	-592.62	
32 31 13 13-0408	EA	28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,384.67	349.76
		For Gate With Single Barb Wire Arm, Add	806.79	
		For Gate With Double Barb Wire Arm, Add	1,173.51	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,375.20	
		For Aluminized Steel Gate And Post, Add	3,520.52	
		For Powder Coated Gate And Post, Add	1,906.95	
		For 1" Mesh Fabric, Add	3,190.47	
		For 1-1/4" Mesh Fabric, Add	2,053.64	
		For 1-3/4" Mesh Fabric, Add	1,276.19	
		For 2-1/8" Mesh Fabric, Deduct	-638.09	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0409	EA		30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	9,176.56	437.57
			For Gate With Single Barb Wire Arm, Add	864.88	
			For Gate With Double Barb Wire Arm, Add	1,258.01	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,474.23	
			For Aluminized Steel Gate And Post, Add	3,774.04	
			For Powder Coated Gate And Post, Add	2,044.27	
			For 1" Mesh Fabric, Add	3,420.22	
			For 1-1/4" Mesh Fabric, Add	2,201.52	
			For 1-3/4" Mesh Fabric, Add	1,368.09	
			For 2-1/8" Mesh Fabric, Deduct	-684.04	
32 31 13 13-0410			Vinyl Coated Without Barb Wire Arm (32 31 13 13-0268)		
			Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0411			4' Fence Height (32 31 13 13-0410)		
32 31 13 13-0412	EA		3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	202.41	27.67
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-22.39	
			For 1" Mesh Fabric, Add	51.94	
			For 1-1/4" Mesh Fabric, Add	33.43	
			For 1-3/4" Mesh Fabric, Add	20.78	
			For 2-1/8" Mesh Fabric, Deduct	-10.39	
			For Gate With Single Barb Wire Arm, Add	13.13	
			For Gate With Double Barb Wire Arm, Add	19.10	
32 31 13 13-0413	EA		4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	242.21	27.67
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.85	
			For 1" Mesh Fabric, Add	69.25	
			For 1-1/4" Mesh Fabric, Add	44.58	
			For 1-3/4" Mesh Fabric, Add	27.70	
			For 2-1/8" Mesh Fabric, Deduct	-13.85	
			For Gate With Single Barb Wire Arm, Add	17.51	
			For Gate With Double Barb Wire Arm, Add	25.47	
32 31 13 13-0414	EA		5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	280.92	29.44
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-36.07	
			For 1" Mesh Fabric, Add	83.68	
			For 1-1/4" Mesh Fabric, Add	53.86	
			For 1-3/4" Mesh Fabric, Add	33.47	
			For 2-1/8" Mesh Fabric, Deduct	-16.74	
			For Gate With Single Barb Wire Arm, Add	21.16	
			For Gate With Double Barb Wire Arm, Add	30.78	
32 31 13 13-0415	EA		6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	331.79	35.42
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-42.29	
			For 1" Mesh Fabric, Add	98.11	
			For 1-1/4" Mesh Fabric, Add	63.15	
			For 1-3/4" Mesh Fabric, Add	39.24	
			For 2-1/8" Mesh Fabric, Deduct	-19.62	
			For Gate With Single Barb Wire Arm, Add	24.81	
			For Gate With Double Barb Wire Arm, Add	36.08	
32 31 13 13-0416	EA		7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	382.66	41.29
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-48.50	
			For 1" Mesh Fabric, Add	112.53	
			For 1-1/4" Mesh Fabric, Add	72.43	
			For 1-3/4" Mesh Fabric, Add	45.01	
			For 2-1/8" Mesh Fabric, Deduct	-22.51	
			For Gate With Single Barb Wire Arm, Add	28.46	
			For Gate With Double Barb Wire Arm, Add	41.39	
32 31 13 13-0417	EA		8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	433.55	47.16
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.73	
			For 1" Mesh Fabric, Add	126.96	
			For 1-1/4" Mesh Fabric, Add	81.72	
			For 1-3/4" Mesh Fabric, Add	50.79	
			For 2-1/8" Mesh Fabric, Deduct	-25.39	
			For Gate With Single Barb Wire Arm, Add	32.11	
			For Gate With Double Barb Wire Arm, Add	46.70	
32 31 13 13-0418	EA		9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	484.42	53.13
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.94	
			For 1" Mesh Fabric, Add	141.39	
			For 1-1/4" Mesh Fabric, Add	91.01	
			For 1-3/4" Mesh Fabric, Add	56.56	
			For 2-1/8" Mesh Fabric, Deduct	-28.28	
			For Gate With Single Barb Wire Arm, Add	35.75	
			For Gate With Double Barb Wire Arm, Add	52.00	
32 31 13 13-0419	EA		10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	535.29	59.00
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.16	
			For 1" Mesh Fabric, Add	155.81	
			For 1-1/4" Mesh Fabric, Add	100.29	
			For 1-3/4" Mesh Fabric, Add	62.33	
			For 2-1/8" Mesh Fabric, Deduct	-31.16	
			For Gate With Single Barb Wire Arm, Add	39.40	
			For Gate With Double Barb Wire Arm, Add	57.31	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0420	EA	10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	654.69 -89.55 207.75 133.73 83.10 -41.55 52.53 76.41	59.00
32 31 13 13-0421	EA	12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	762.86 -107.46 249.30 160.47 99.72 -49.86 63.04 91.70	63.21
32 31 13 13-0422	EA	14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	872.98 -125.37 290.85 187.22 116.34 -58.17 73.55 106.98	68.07
32 31 13 13-0423	EA	16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	985.52 -143.28 332.41 213.96 132.96 -66.48 84.06 122.26	73.72
32 31 13 13-0424	EA	18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,143.49 -161.19 373.96 240.71 149.58 -74.79 94.56 137.55	94.45
32 31 13 13-0425	EA	20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,259.27 -179.10 415.50 267.45 166.20 -83.10 105.07 152.83	101.25
32 31 13 13-0426	EA	22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,378.18 -197.01 457.05 294.20 182.82 -91.41 115.58 168.11	109.09
32 31 13 13-0427	EA	24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,501.00 -214.92 498.61 320.94 199.44 -99.72 126.08 183.40	118.14
32 31 13 13-0428	EA	26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,628.77 -232.83 540.16 347.69 216.06 -108.03 136.59 198.68	128.92
32 31 13 13-0429	EA	28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,762.99 -250.74 581.71 374.43 232.68 -116.34 147.10 213.96	141.83



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0430	EA		30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,905.81 -268.65 623.26 401.18 249.30 -124.65 157.61 229.24	157.52
32 31 13 13-0431			5' Fence Height (32 31 13 13-0410)		
32 31 13 13-0432	EA		3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	236.50 -27.74 64.36 41.43 25.74 -12.87 16.27 23.67	29.44
32 31 13 13-0433	EA		4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	285.82 -36.99 85.81 55.24 34.32 -17.16 21.70 31.56	29.44
32 31 13 13-0434	EA		5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	328.35 -43.93 101.91 65.60 40.76 -20.38 25.77 37.48	31.33
32 31 13 13-0435	EA		6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	384.14 -50.86 117.99 75.95 47.20 -23.60 29.84 43.40	37.63
32 31 13 13-0436	EA		7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	439.96 -57.80 134.08 86.31 53.63 -26.82 33.91 49.32	43.83
32 31 13 13-0437	EA		8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	496.86 -64.73 150.17 96.66 60.07 -30.03 37.97 55.24	50.47
32 31 13 13-0438	EA		9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	552.67 -71.66 166.26 107.02 66.50 -33.25 42.04 61.15	56.78
32 31 13 13-0439	EA		10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	608.46 -78.60 182.35 117.37 72.94 -36.47 46.11 67.07	62.99
32 31 13 13-0440	EA		10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	781.55 -110.96 257.43 165.70 102.97 -51.49 65.10 94.69	63.21

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0441	EA	12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	914.51	68.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-133.16	
		For 1" Mesh Fabric, Add	308.92	
		For 1-1/4" Mesh Fabric, Add	198.84	
		For 1-3/4" Mesh Fabric, Add	123.57	
		For 2-1/8" Mesh Fabric, Deduct	-61.78	
		For Gate With Single Barb Wire Arm, Add	78.12	
		For Gate With Double Barb Wire Arm, Add	113.63	
32 31 13 13-0442	EA	14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,049.89	73.72
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-155.35	
		For 1" Mesh Fabric, Add	360.41	
		For 1-1/4" Mesh Fabric, Add	231.99	
		For 1-3/4" Mesh Fabric, Add	144.16	
		For 2-1/8" Mesh Fabric, Deduct	-72.08	
		For Gate With Single Barb Wire Arm, Add	91.14	
		For Gate With Double Barb Wire Arm, Add	132.56	
32 31 13 13-0443	EA	16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,230.70	94.45
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-177.54	
		For 1" Mesh Fabric, Add	411.89	
		For 1-1/4" Mesh Fabric, Add	265.13	
		For 1-3/4" Mesh Fabric, Add	164.76	
		For 2-1/8" Mesh Fabric, Deduct	-82.38	
		For Gate With Single Barb Wire Arm, Add	104.16	
		For Gate With Double Barb Wire Arm, Add	151.50	
32 31 13 13-0444	EA	18' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,369.33	101.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-199.73	
		For 1" Mesh Fabric, Add	463.38	
		For 1-1/4" Mesh Fabric, Add	298.27	
		For 1-3/4" Mesh Fabric, Add	185.35	
		For 2-1/8" Mesh Fabric, Deduct	-92.68	
		For Gate With Single Barb Wire Arm, Add	117.18	
		For Gate With Double Barb Wire Arm, Add	170.44	
32 31 13 13-0445	EA	20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,511.08	109.09
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-221.93	
		For 1" Mesh Fabric, Add	514.87	
		For 1-1/4" Mesh Fabric, Add	331.41	
		For 1-3/4" Mesh Fabric, Add	205.95	
		For 2-1/8" Mesh Fabric, Deduct	-102.97	
		For Gate With Single Barb Wire Arm, Add	130.20	
		For Gate With Double Barb Wire Arm, Add	189.38	
32 31 13 13-0446	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,656.74	118.14
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-244.12	
		For 1" Mesh Fabric, Add	566.35	
		For 1-1/4" Mesh Fabric, Add	364.55	
		For 1-3/4" Mesh Fabric, Add	226.54	
		For 2-1/8" Mesh Fabric, Deduct	-113.27	
		For Gate With Single Barb Wire Arm, Add	143.22	
		For Gate With Double Barb Wire Arm, Add	208.31	
32 31 13 13-0447	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,807.35	128.92
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-266.31	
		For 1" Mesh Fabric, Add	617.84	
		For 1-1/4" Mesh Fabric, Add	397.69	
		For 1-3/4" Mesh Fabric, Add	247.14	
		For 2-1/8" Mesh Fabric, Deduct	-123.57	
		For Gate With Single Barb Wire Arm, Add	156.24	
		For Gate With Double Barb Wire Arm, Add	227.25	
32 31 13 13-0448	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,964.41	141.83
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-288.50	
		For 1" Mesh Fabric, Add	669.33	
		For 1-1/4" Mesh Fabric, Add	430.83	
		For 1-3/4" Mesh Fabric, Add	267.73	
		For 2-1/8" Mesh Fabric, Deduct	-133.87	
		For Gate With Single Barb Wire Arm, Add	169.25	
		For Gate With Double Barb Wire Arm, Add	246.19	
32 31 13 13-0449	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,130.07	157.52
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-310.70	
		For 1" Mesh Fabric, Add	720.81	
		For 1-1/4" Mesh Fabric, Add	463.97	
		For 1-3/4" Mesh Fabric, Add	288.32	
		For 2-1/8" Mesh Fabric, Deduct	-144.16	
		For Gate With Single Barb Wire Arm, Add	182.27	
		For Gate With Double Barb Wire Arm, Add	265.13	
32 31 13 13-0450	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,307.57	177.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-332.89	
		For 1" Mesh Fabric, Add	772.30	
		For 1-1/4" Mesh Fabric, Add	497.11	
		For 1-3/4" Mesh Fabric, Add	308.92	
		For 2-1/8" Mesh Fabric, Deduct	-154.46	
		For Gate With Single Barb Wire Arm, Add	195.29	
		For Gate With Double Barb Wire Arm, Add	284.06	

32 31 13 13-0451 6' Fence Height (32 31 13 13-0410)



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32	31	13	13-0452 EA 3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	253.00	31.55
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.65	
			For 1" Mesh Fabric, Add	68.78	
			For 1-1/4" Mesh Fabric, Add	44.27	
			For 1-3/4" Mesh Fabric, Add	27.51	
			For 2-1/8" Mesh Fabric, Deduct	-13.76	
			For Gate With Single Barb Wire Arm, Add	17.39	
			For Gate With Double Barb Wire Arm, Add	25.30	
32	31	13	13-0453 EA 4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	305.70	31.55
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-39.53	
			For 1" Mesh Fabric, Add	91.71	
			For 1-1/4" Mesh Fabric, Add	59.03	
			For 1-3/4" Mesh Fabric, Add	36.68	
			For 2-1/8" Mesh Fabric, Deduct	-18.34	
			For Gate With Single Barb Wire Arm, Add	23.19	
			For Gate With Double Barb Wire Arm, Add	33.73	
32	31	13	13-0454 EA 5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	351.09	33.53
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.94	
			For 1" Mesh Fabric, Add	108.91	
			For 1-1/4" Mesh Fabric, Add	70.10	
			For 1-3/4" Mesh Fabric, Add	43.56	
			For 2-1/8" Mesh Fabric, Deduct	-21.78	
			For Gate With Single Barb Wire Arm, Add	27.54	
			For Gate With Double Barb Wire Arm, Add	40.06	
32	31	13	13-0455 EA 6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	411.64	40.51
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.35	
			For 1" Mesh Fabric, Add	126.10	
			For 1-1/4" Mesh Fabric, Add	81.17	
			For 1-3/4" Mesh Fabric, Add	50.44	
			For 2-1/8" Mesh Fabric, Deduct	-25.22	
			For Gate With Single Barb Wire Arm, Add	31.89	
			For Gate With Double Barb Wire Arm, Add	46.38	
32	31	13	13-0456 EA 7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	472.20	47.60
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.76	
			For 1" Mesh Fabric, Add	143.29	
			For 1-1/4" Mesh Fabric, Add	92.23	
			For 1-3/4" Mesh Fabric, Add	57.32	
			For 2-1/8" Mesh Fabric, Deduct	-28.66	
			For Gate With Single Barb Wire Arm, Add	36.24	
			For Gate With Double Barb Wire Arm, Add	52.71	
32	31	13	13-0457 EA 8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	531.65	54.24
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.18	
			For 1" Mesh Fabric, Add	160.49	
			For 1-1/4" Mesh Fabric, Add	103.30	
			For 1-3/4" Mesh Fabric, Add	64.20	
			For 2-1/8" Mesh Fabric, Deduct	-32.10	
			For Gate With Single Barb Wire Arm, Add	40.58	
			For Gate With Double Barb Wire Arm, Add	59.03	
32	31	13	13-0458 EA 9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	592.22	61.21
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-76.59	
			For 1" Mesh Fabric, Add	177.68	
			For 1-1/4" Mesh Fabric, Add	114.37	
			For 1-3/4" Mesh Fabric, Add	71.07	
			For 2-1/8" Mesh Fabric, Deduct	-35.54	
			For Gate With Single Barb Wire Arm, Add	44.93	
			For Gate With Double Barb Wire Arm, Add	65.36	
32	31	13	13-0459 EA 10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	652.78	68.19
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.00	
			For 1" Mesh Fabric, Add	194.88	
			For 1-1/4" Mesh Fabric, Add	125.44	
			For 1-3/4" Mesh Fabric, Add	77.95	
			For 2-1/8" Mesh Fabric, Deduct	-38.98	
			For Gate With Single Barb Wire Arm, Add	49.28	
			For Gate With Double Barb Wire Arm, Add	71.68	
32	31	13	13-0460 EA 10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	836.82	68.07
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-118.59	
			For 1" Mesh Fabric, Add	275.12	
			For 1-1/4" Mesh Fabric, Add	177.09	
			For 1-3/4" Mesh Fabric, Add	110.05	
			For 2-1/8" Mesh Fabric, Deduct	-55.02	
			For Gate With Single Barb Wire Arm, Add	69.57	
			For Gate With Double Barb Wire Arm, Add	101.20	
32	31	13	13-0461 EA 12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	980.33	73.72
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-142.31	
			For 1" Mesh Fabric, Add	330.15	
			For 1-1/4" Mesh Fabric, Add	212.51	
			For 1-3/4" Mesh Fabric, Add	132.06	
			For 2-1/8" Mesh Fabric, Deduct	-66.03	
			For Gate With Single Barb Wire Arm, Add	83.49	
			For Gate With Double Barb Wire Arm, Add	121.43	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0462	EA	14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,189.54	101.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-166.02	
		For 1" Mesh Fabric, Add	365.17	
		For 1-1/4" Mesh Fabric, Add	247.93	
		For 1-3/4" Mesh Fabric, Add	154.07	
		For 2-1/8" Mesh Fabric, Deduct	-77.03	
		For Gate With Single Barb Wire Arm, Add	97.40	
		For Gate With Double Barb Wire Arm, Add	141.67	
32 31 13 13-0463	EA	16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,339.43	109.09
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-189.74	
		For 1" Mesh Fabric, Add	440.20	
		For 1-1/4" Mesh Fabric, Add	283.35	
		For 1-3/4" Mesh Fabric, Add	176.08	
		For 2-1/8" Mesh Fabric, Deduct	-88.04	
		For Gate With Single Barb Wire Arm, Add	111.31	
		For Gate With Double Barb Wire Arm, Add	161.91	
32 31 13 13-0464	EA	18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,493.22	118.14
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-213.46	
		For 1" Mesh Fabric, Add	495.22	
		For 1-1/4" Mesh Fabric, Add	318.76	
		For 1-3/4" Mesh Fabric, Add	198.09	
		For 2-1/8" Mesh Fabric, Deduct	-99.04	
		For Gate With Single Barb Wire Arm, Add	125.23	
		For Gate With Double Barb Wire Arm, Add	182.15	
32 31 13 13-0465	EA	20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,675.34	128.92
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.56	
		For 1" Mesh Fabric, Add	560.41	
		For 1-1/4" Mesh Fabric, Add	360.73	
		For 1-3/4" Mesh Fabric, Add	224.17	
		For 2-1/8" Mesh Fabric, Deduct	-112.08	
		For Gate With Single Barb Wire Arm, Add	141.71	
		For Gate With Double Barb Wire Arm, Add	206.13	
32 31 13 13-0466	EA	22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,821.40	141.83
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-261.69	
		For 1" Mesh Fabric, Add	607.12	
		For 1-1/4" Mesh Fabric, Add	390.79	
		For 1-3/4" Mesh Fabric, Add	242.85	
		For 2-1/8" Mesh Fabric, Deduct	-121.42	
		For Gate With Single Barb Wire Arm, Add	153.52	
		For Gate With Double Barb Wire Arm, Add	223.31	
32 31 13 13-0467	EA	24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,990.95	157.52
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-284.61	
		For 1" Mesh Fabric, Add	660.30	
		For 1-1/4" Mesh Fabric, Add	425.02	
		For 1-3/4" Mesh Fabric, Add	264.12	
		For 2-1/8" Mesh Fabric, Deduct	-132.06	
		For Gate With Single Barb Wire Arm, Add	166.97	
		For Gate With Double Barb Wire Arm, Add	242.87	
32 31 13 13-0468	EA	26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,176.58	177.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-308.33	
		For 1" Mesh Fabric, Add	715.32	
		For 1-1/4" Mesh Fabric, Add	460.43	
		For 1-3/4" Mesh Fabric, Add	286.13	
		For 2-1/8" Mesh Fabric, Deduct	-143.06	
		For Gate With Single Barb Wire Arm, Add	180.89	
		For Gate With Double Barb Wire Arm, Add	263.11	
32 31 13 13-0469	EA	28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,379.09	202.48
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-332.05	
		For 1" Mesh Fabric, Add	770.35	
		For 1-1/4" Mesh Fabric, Add	495.85	
		For 1-3/4" Mesh Fabric, Add	308.14	
		For 2-1/8" Mesh Fabric, Deduct	-154.07	
		For Gate With Single Barb Wire Arm, Add	194.80	
		For Gate With Double Barb Wire Arm, Add	283.35	
32 31 13 13-0470	EA	30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,606.95	236.28
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-355.76	
		For 1" Mesh Fabric, Add	825.37	
		For 1-1/4" Mesh Fabric, Add	531.27	
		For 1-3/4" Mesh Fabric, Add	330.15	
		For 2-1/8" Mesh Fabric, Deduct	-165.07	
		For Gate With Single Barb Wire Arm, Add	208.71	
		For Gate With Double Barb Wire Arm, Add	303.58	
32 31 13 13-0471		7' Fence Height (32 31 13 13-0410)		
32 31 13 13-0472	EA	3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm	268.24	33.98
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-31.14	
		For 1" Mesh Fabric, Add	72.24	
		For 1-1/4" Mesh Fabric, Add	46.50	
		For 1-3/4" Mesh Fabric, Add	28.90	
		For 2-1/8" Mesh Fabric, Deduct	-14.45	
		For Gate With Single Barb Wire Arm, Add	18.27	
		For Gate With Double Barb Wire Arm, Add	26.57	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0473	EA	4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	323.61	33.98
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-41.52	
			For 1" Mesh Fabric, Add	96.33	
			For 1-1/4" Mesh Fabric, Add	62.00	
			For 1-3/4" Mesh Fabric, Add	38.53	
			For 2-1/8" Mesh Fabric, Deduct	-19.27	
			For Gate With Single Barb Wire Arm, Add	24.36	
			For Gate With Double Barb Wire Arm, Add	35.43	
32 31 13	13-0474	EA	5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	370.34	35.75
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-49.31	
			For 1" Mesh Fabric, Add	114.39	
			For 1-1/4" Mesh Fabric, Add	73.63	
			For 1-3/4" Mesh Fabric, Add	45.76	
			For 2-1/8" Mesh Fabric, Deduct	-22.88	
			For Gate With Single Barb Wire Arm, Add	28.93	
			For Gate With Double Barb Wire Arm, Add	42.08	
32 31 13	13-0475	EA	6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	435.09	43.50
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.09	
			For 1" Mesh Fabric, Add	132.45	
			For 1-1/4" Mesh Fabric, Add	85.25	
			For 1-3/4" Mesh Fabric, Add	52.98	
			For 2-1/8" Mesh Fabric, Deduct	-26.49	
			For Gate With Single Barb Wire Arm, Add	33.49	
			For Gate With Double Barb Wire Arm, Add	48.72	
32 31 13	13-0476	EA	7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	498.76	50.91
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-64.88	
			For 1" Mesh Fabric, Add	150.51	
			For 1-1/4" Mesh Fabric, Add	96.88	
			For 1-3/4" Mesh Fabric, Add	60.21	
			For 2-1/8" Mesh Fabric, Deduct	-30.10	
			For Gate With Single Barb Wire Arm, Add	38.06	
			For Gate With Double Barb Wire Arm, Add	55.36	
32 31 13	13-0477	EA	8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	563.54	58.55
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.66	
			For 1" Mesh Fabric, Add	168.58	
			For 1-1/4" Mesh Fabric, Add	108.51	
			For 1-3/4" Mesh Fabric, Add	67.43	
			For 2-1/8" Mesh Fabric, Deduct	-33.72	
			For Gate With Single Barb Wire Arm, Add	42.63	
			For Gate With Double Barb Wire Arm, Add	62.01	
32 31 13	13-0478	EA	9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	627.17	65.97
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-80.45	
			For 1" Mesh Fabric, Add	186.64	
			For 1-1/4" Mesh Fabric, Add	120.13	
			For 1-3/4" Mesh Fabric, Add	74.65	
			For 2-1/8" Mesh Fabric, Deduct	-37.33	
			For Gate With Single Barb Wire Arm, Add	47.20	
			For Gate With Double Barb Wire Arm, Add	68.65	
32 31 13	13-0479	EA	10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	691.95	73.72
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.23	
			For 1" Mesh Fabric, Add	204.70	
			For 1-1/4" Mesh Fabric, Add	131.76	
			For 1-3/4" Mesh Fabric, Add	81.88	
			For 2-1/8" Mesh Fabric, Deduct	-40.94	
			For Gate With Single Barb Wire Arm, Add	51.76	
			For Gate With Double Barb Wire Arm, Add	75.29	
32 31 13	13-0480	EA	10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	885.70	73.72
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-124.56	
			For 1" Mesh Fabric, Add	288.98	
			For 1-1/4" Mesh Fabric, Add	186.01	
			For 1-3/4" Mesh Fabric, Add	115.59	
			For 2-1/8" Mesh Fabric, Deduct	-57.80	
			For Gate With Single Barb Wire Arm, Add	73.08	
			For Gate With Double Barb Wire Arm, Add	106.29	
32 31 13	13-0481	EA	12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,101.27	101.25
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-149.47	
			For 1" Mesh Fabric, Add	346.77	
			For 1-1/4" Mesh Fabric, Add	223.21	
			For 1-3/4" Mesh Fabric, Add	138.71	
			For 2-1/8" Mesh Fabric, Deduct	-69.35	
			For Gate With Single Barb Wire Arm, Add	87.69	
			For Gate With Double Barb Wire Arm, Add	127.55	
32 31 13	13-0482	EA	14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,257.54	109.09
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-174.39	
			For 1" Mesh Fabric, Add	404.58	
			For 1-1/4" Mesh Fabric, Add	260.42	
			For 1-3/4" Mesh Fabric, Add	161.63	
			For 2-1/8" Mesh Fabric, Deduct	-80.92	
			For Gate With Single Barb Wire Arm, Add	102.31	
			For Gate With Double Barb Wire Arm, Add	148.81	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0483	EA	16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,417.68	118.14
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-199.29	
		For 1" Mesh Fabric, Add	462.36	
		For 1-1/4" Mesh Fabric, Add	297.61	
		For 1-3/4" Mesh Fabric, Add	184.94	
		For 2-1/8" Mesh Fabric, Deduct	-92.47	
		For Gate With Single Barb Wire Arm, Add	116.92	
		For Gate With Double Barb Wire Arm, Add	170.06	
32 31 13 13-0484	EA	18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,582.81	128.92
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-224.21	
		For 1" Mesh Fabric, Add	520.16	
		For 1-1/4" Mesh Fabric, Add	334.82	
		For 1-3/4" Mesh Fabric, Add	208.07	
		For 2-1/8" Mesh Fabric, Deduct	-104.03	
		For Gate With Single Barb Wire Arm, Add	131.54	
		For Gate With Double Barb Wire Arm, Add	191.32	
32 31 13 13-0485	EA	20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,754.36	141.83
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-249.12	
		For 1" Mesh Fabric, Add	577.95	
		For 1-1/4" Mesh Fabric, Add	372.02	
		For 1-3/4" Mesh Fabric, Add	231.18	
		For 2-1/8" Mesh Fabric, Deduct	-115.59	
		For Gate With Single Barb Wire Arm, Add	146.15	
		For Gate With Double Barb Wire Arm, Add	212.58	
32 31 13 13-0486	EA	22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,934.50	157.52
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-274.03	
		For 1" Mesh Fabric, Add	635.74	
		For 1-1/4" Mesh Fabric, Add	409.21	
		For 1-3/4" Mesh Fabric, Add	254.30	
		For 2-1/8" Mesh Fabric, Deduct	-127.15	
		For Gate With Single Barb Wire Arm, Add	160.76	
		For Gate With Double Barb Wire Arm, Add	233.84	
32 31 13 13-0487	EA	24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,126.52	177.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-298.94	
		For 1" Mesh Fabric, Add	693.54	
		For 1-1/4" Mesh Fabric, Add	446.42	
		For 1-3/4" Mesh Fabric, Add	277.42	
		For 2-1/8" Mesh Fabric, Deduct	-138.71	
		For Gate With Single Barb Wire Arm, Add	175.38	
		For Gate With Double Barb Wire Arm, Add	255.10	
32 31 13 13-0488	EA	26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,335.41	202.48
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-323.86	
		For 1" Mesh Fabric, Add	751.35	
		For 1-1/4" Mesh Fabric, Add	483.62	
		For 1-3/4" Mesh Fabric, Add	300.54	
		For 2-1/8" Mesh Fabric, Deduct	-150.27	
		For Gate With Single Barb Wire Arm, Add	190.00	
		For Gate With Double Barb Wire Arm, Add	276.36	
32 31 13 13-0489	EA	28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,569.63	236.28
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-348.77	
		For 1" Mesh Fabric, Add	809.13	
		For 1-1/4" Mesh Fabric, Add	520.82	
		For 1-3/4" Mesh Fabric, Add	323.65	
		For 2-1/8" Mesh Fabric, Deduct	-161.83	
		For Gate With Single Barb Wire Arm, Add	204.61	
		For Gate With Double Barb Wire Arm, Add	297.61	
32 31 13 13-0490	EA	30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,844.42	283.51
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-373.68	
		For 1" Mesh Fabric, Add	866.94	
		For 1-1/4" Mesh Fabric, Add	558.03	
		For 1-3/4" Mesh Fabric, Add	346.78	
		For 2-1/8" Mesh Fabric, Deduct	-173.39	
		For Gate With Single Barb Wire Arm, Add	219.23	
		For Gate With Double Barb Wire Arm, Add	318.87	
32 31 13 13-0491		8' Fence Height (32 31 13 13-0410)		
32 31 13 13-0492	EA	3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	311.99	36.86
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-37.74	
		For 1" Mesh Fabric, Add	87.57	
		For 1-1/4" Mesh Fabric, Add	56.36	
		For 1-3/4" Mesh Fabric, Add	35.03	
		For 2-1/8" Mesh Fabric, Deduct	-17.51	
		For Gate With Single Barb Wire Arm, Add	22.14	
		For Gate With Double Barb Wire Arm, Add	32.21	
32 31 13 13-0493	EA	4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	379.09	36.86
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.33	
		For 1" Mesh Fabric, Add	116.75	
		For 1-1/4" Mesh Fabric, Add	75.15	
		For 1-3/4" Mesh Fabric, Add	46.70	
		For 2-1/8" Mesh Fabric, Deduct	-23.35	
		For Gate With Single Barb Wire Arm, Add	29.52	
		For Gate With Double Barb Wire Arm, Add	42.94	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0494	EA	5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	423.82	36.86
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-58.71	
			For 1" Mesh Fabric, Add	136.21	
			For 1-1/4" Mesh Fabric, Add	87.68	
			For 1-3/4" Mesh Fabric, Add	54.48	
			For 2-1/8" Mesh Fabric, Deduct	-27.24	
			For Gate With Single Barb Wire Arm, Add	34.44	
			For Gate With Double Barb Wire Arm, Add	50.10	
32 31 13	13-0495	EA	6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	497.32	46.49
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.10	
			For 1" Mesh Fabric, Add	155.67	
			For 1-1/4" Mesh Fabric, Add	100.20	
			For 1-3/4" Mesh Fabric, Add	62.27	
			For 2-1/8" Mesh Fabric, Deduct	-31.13	
			For Gate With Single Barb Wire Arm, Add	39.36	
			For Gate With Double Barb Wire Arm, Add	57.26	
32 31 13	13-0496	EA	7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	570.84	56.01
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.49	
			For 1" Mesh Fabric, Add	175.13	
			For 1-1/4" Mesh Fabric, Add	112.73	
			For 1-3/4" Mesh Fabric, Add	70.05	
			For 2-1/8" Mesh Fabric, Deduct	-35.03	
			For Gate With Single Barb Wire Arm, Add	44.29	
			For Gate With Double Barb Wire Arm, Add	64.42	
32 31 13	13-0497	EA	8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	643.25	65.19
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-83.87	
			For 1" Mesh Fabric, Add	194.59	
			For 1-1/4" Mesh Fabric, Add	125.25	
			For 1-3/4" Mesh Fabric, Add	77.84	
			For 2-1/8" Mesh Fabric, Deduct	-38.92	
			For Gate With Single Barb Wire Arm, Add	49.21	
			For Gate With Double Barb Wire Arm, Add	71.57	
32 31 13	13-0498	EA	9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	716.76	74.83
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-92.26	
			For 1" Mesh Fabric, Add	214.05	
			For 1-1/4" Mesh Fabric, Add	137.78	
			For 1-3/4" Mesh Fabric, Add	85.62	
			For 2-1/8" Mesh Fabric, Deduct	-42.81	
			For Gate With Single Barb Wire Arm, Add	54.13	
			For Gate With Double Barb Wire Arm, Add	78.73	
32 31 13	13-0499	EA	10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	790.26	84.46
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.65	
			For 1" Mesh Fabric, Add	233.51	
			For 1-1/4" Mesh Fabric, Add	150.30	
			For 1-3/4" Mesh Fabric, Add	93.40	
			For 2-1/8" Mesh Fabric, Deduct	-46.70	
			For Gate With Single Barb Wire Arm, Add	59.05	
			For Gate With Double Barb Wire Arm, Add	85.89	
32 31 13	13-0500	EA	10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,109.27	101.25
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-150.97	
			For 1" Mesh Fabric, Add	350.25	
			For 1-1/4" Mesh Fabric, Add	225.45	
			For 1-3/4" Mesh Fabric, Add	140.10	
			For 2-1/8" Mesh Fabric, Deduct	-70.05	
			For Gate With Single Barb Wire Arm, Add	88.57	
			For Gate With Double Barb Wire Arm, Add	128.83	
32 31 13	13-0501	EA	12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,293.70	109.09
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-181.17	
			For 1" Mesh Fabric, Add	420.31	
			For 1-1/4" Mesh Fabric, Add	270.54	
			For 1-3/4" Mesh Fabric, Add	168.12	
			For 2-1/8" Mesh Fabric, Deduct	-84.06	
			For Gate With Single Barb Wire Arm, Add	106.28	
			For Gate With Double Barb Wire Arm, Add	154.60	
32 31 13	13-0502	EA	14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,482.04	118.14
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-211.36	
			For 1" Mesh Fabric, Add	490.36	
			For 1-1/4" Mesh Fabric, Add	315.63	
			For 1-3/4" Mesh Fabric, Add	196.14	
			For 2-1/8" Mesh Fabric, Deduct	-98.07	
			For Gate With Single Barb Wire Arm, Add	124.00	
			For Gate With Double Barb Wire Arm, Add	180.36	
32 31 13	13-0503	EA	16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,675.32	128.92
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.55	
			For 1" Mesh Fabric, Add	560.41	
			For 1-1/4" Mesh Fabric, Add	360.72	
			For 1-3/4" Mesh Fabric, Add	224.16	
			For 2-1/8" Mesh Fabric, Deduct	-112.08	
			For Gate With Single Barb Wire Arm, Add	141.71	
			For Gate With Double Barb Wire Arm, Add	206.13	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0504	EA	18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,875.06	141.83
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-271.75	
		For 1" Mesh Fabric, Add	630.46	
		For 1-1/4" Mesh Fabric, Add	405.81	
		For 1-3/4" Mesh Fabric, Add	252.18	
		For 2-1/8" Mesh Fabric, Deduct	-126.09	
		For Gate With Single Barb Wire Arm, Add	159.43	
		For Gate With Double Barb Wire Arm, Add	231.89	
32 31 13 13-0505	EA	20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,083.40	157.52
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-301.94	
		For 1" Mesh Fabric, Add	700.51	
		For 1-1/4" Mesh Fabric, Add	450.90	
		For 1-3/4" Mesh Fabric, Add	280.20	
		For 2-1/8" Mesh Fabric, Deduct	-140.10	
		For Gate With Single Barb Wire Arm, Add	177.14	
		For Gate With Double Barb Wire Arm, Add	257.66	
32 31 13 13-0506	EA	22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,303.57	177.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-332.14	
		For 1" Mesh Fabric, Add	770.56	
		For 1-1/4" Mesh Fabric, Add	495.99	
		For 1-3/4" Mesh Fabric, Add	308.22	
		For 2-1/8" Mesh Fabric, Deduct	-154.11	
		For Gate With Single Barb Wire Arm, Add	194.85	
		For Gate With Double Barb Wire Arm, Add	283.42	
32 31 13 13-0507	EA	24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,540.62	202.48
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-362.33	
		For 1" Mesh Fabric, Add	840.61	
		For 1-1/4" Mesh Fabric, Add	541.08	
		For 1-3/4" Mesh Fabric, Add	336.24	
		For 2-1/8" Mesh Fabric, Deduct	-168.12	
		For Gate With Single Barb Wire Arm, Add	212.57	
		For Gate With Double Barb Wire Arm, Add	309.19	
32 31 13 13-0508	EA	26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,803.03	236.28
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-392.53	
		For 1" Mesh Fabric, Add	910.66	
		For 1-1/4" Mesh Fabric, Add	586.17	
		For 1-3/4" Mesh Fabric, Add	364.27	
		For 2-1/8" Mesh Fabric, Deduct	-182.13	
		For Gate With Single Barb Wire Arm, Add	230.28	
		For Gate With Double Barb Wire Arm, Add	334.96	
32 31 13 13-0509	EA	28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,105.97	283.51
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-422.72	
		For 1" Mesh Fabric, Add	980.71	
		For 1-1/4" Mesh Fabric, Add	631.26	
		For 1-3/4" Mesh Fabric, Add	392.28	
		For 2-1/8" Mesh Fabric, Deduct	-196.14	
		For Gate With Single Barb Wire Arm, Add	248.00	
		For Gate With Double Barb Wire Arm, Add	360.72	
32 31 13 13-0510	EA	30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,479.87	354.42
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-452.92	
		For 1" Mesh Fabric, Add	1,050.76	
		For 1-1/4" Mesh Fabric, Add	676.35	
		For 1-3/4" Mesh Fabric, Add	420.31	
		For 2-1/8" Mesh Fabric, Deduct	-210.15	
		For Gate With Single Barb Wire Arm, Add	265.71	
		For Gate With Double Barb Wire Arm, Add	386.49	
32 31 13 13-0511		10' Fence Height (32 31 13 13-0410)		
32 31 13 13-0512	EA	3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	356.49	40.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-43.78	
		For 1" Mesh Fabric, Add	101.58	
		For 1-1/4" Mesh Fabric, Add	65.38	
		For 1-3/4" Mesh Fabric, Add	40.63	
		For 2-1/8" Mesh Fabric, Deduct	-20.32	
		For Gate With Single Barb Wire Arm, Add	25.69	
		For Gate With Double Barb Wire Arm, Add	37.36	
32 31 13 13-0513	EA	4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	434.33	40.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-58.38	
		For 1" Mesh Fabric, Add	135.44	
		For 1-1/4" Mesh Fabric, Add	87.18	
		For 1-3/4" Mesh Fabric, Add	54.17	
		For 2-1/8" Mesh Fabric, Deduct	-27.09	
		For Gate With Single Barb Wire Arm, Add	34.25	
		For Gate With Double Barb Wire Arm, Add	49.82	
32 31 13 13-0514	EA	5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm	491.64	42.73
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.11	
		For 1" Mesh Fabric, Add	158.01	
		For 1-1/4" Mesh Fabric, Add	101.71	
		For 1-3/4" Mesh Fabric, Add	63.21	
		For 2-1/8" Mesh Fabric, Deduct	-31.60	
		For Gate With Single Barb Wire Arm, Add	39.96	
		For Gate With Double Barb Wire Arm, Add	58.12	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0515	EA	6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	574.53	53.13
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.84	
			For 1" Mesh Fabric, Add	180.59	
			For 1-1/4" Mesh Fabric, Add	116.24	
			For 1-3/4" Mesh Fabric, Add	72.23	
			For 2-1/8" Mesh Fabric, Deduct	-36.12	
			For Gate With Single Barb Wire Arm, Add	45.67	
			For Gate With Double Barb Wire Arm, Add	66.42	
32 31 13	13-0516	EA	7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	656.30	62.99
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-87.57	
			For 1" Mesh Fabric, Add	203.16	
			For 1-1/4" Mesh Fabric, Add	130.77	
			For 1-3/4" Mesh Fabric, Add	81.26	
			For 2-1/8" Mesh Fabric, Deduct	-40.63	
			For Gate With Single Barb Wire Arm, Add	51.37	
			For Gate With Double Barb Wire Arm, Add	74.72	
32 31 13	13-0517	EA	8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	739.19	73.39
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-97.30	
			For 1" Mesh Fabric, Add	225.73	
			For 1-1/4" Mesh Fabric, Add	145.30	
			For 1-3/4" Mesh Fabric, Add	90.29	
			For 2-1/8" Mesh Fabric, Deduct	-45.15	
			For Gate With Single Barb Wire Arm, Add	57.08	
			For Gate With Double Barb Wire Arm, Add	83.03	
32 31 13	13-0518	EA	9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	820.96	83.35
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-107.03	
			For 1" Mesh Fabric, Add	248.31	
			For 1-1/4" Mesh Fabric, Add	159.63	
			For 1-3/4" Mesh Fabric, Add	99.32	
			For 2-1/8" Mesh Fabric, Deduct	-49.66	
			For Gate With Single Barb Wire Arm, Add	62.79	
			For Gate With Double Barb Wire Arm, Add	91.33	
32 31 13	13-0519	EA	10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	903.86	93.64
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-116.76	
			For 1" Mesh Fabric, Add	270.88	
			For 1-1/4" Mesh Fabric, Add	174.36	
			For 1-3/4" Mesh Fabric, Add	108.35	
			For 2-1/8" Mesh Fabric, Deduct	-54.18	
			For Gate With Single Barb Wire Arm, Add	68.50	
			For Gate With Double Barb Wire Arm, Add	99.63	
32 31 13	13-0520	EA	10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,271.94	112.55
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.13	
			For 1" Mesh Fabric, Add	406.31	
			For 1-1/4" Mesh Fabric, Add	261.53	
			For 1-3/4" Mesh Fabric, Add	162.52	
			For 2-1/8" Mesh Fabric, Deduct	-81.26	
			For Gate With Single Barb Wire Arm, Add	102.75	
			For Gate With Double Barb Wire Arm, Add	149.45	
32 31 13	13-0521	EA	12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,484.62	121.07
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-210.16	
			For 1" Mesh Fabric, Add	487.58	
			For 1-1/4" Mesh Fabric, Add	313.84	
			For 1-3/4" Mesh Fabric, Add	195.03	
			For 2-1/8" Mesh Fabric, Deduct	-97.52	
			For Gate With Single Barb Wire Arm, Add	123.30	
			For Gate With Double Barb Wire Arm, Add	179.34	
32 31 13	13-0522	EA	14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,701.87	131.31
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-245.19	
			For 1" Mesh Fabric, Add	568.84	
			For 1-1/4" Mesh Fabric, Add	366.15	
			For 1-3/4" Mesh Fabric, Add	227.54	
			For 2-1/8" Mesh Fabric, Deduct	-113.77	
			For Gate With Single Barb Wire Arm, Add	143.84	
			For Gate With Double Barb Wire Arm, Add	209.23	
32 31 13	13-0523	EA	16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,924.34	143.16
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-280.22	
			For 1" Mesh Fabric, Add	650.10	
			For 1-1/4" Mesh Fabric, Add	418.45	
			For 1-3/4" Mesh Fabric, Add	260.04	
			For 2-1/8" Mesh Fabric, Deduct	-130.02	
			For Gate With Single Barb Wire Arm, Add	164.39	
			For Gate With Double Barb Wire Arm, Add	239.12	
32 31 13	13-0524	EA	18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,154.33	157.52
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-315.24	
			For 1" Mesh Fabric, Add	731.37	
			For 1-1/4" Mesh Fabric, Add	470.76	
			For 1-3/4" Mesh Fabric, Add	292.55	
			For 2-1/8" Mesh Fabric, Deduct	-146.27	
			For Gate With Single Barb Wire Arm, Add	184.94	
			For Gate With Double Barb Wire Arm, Add	269.01	

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32 31 13 13-0525	EA	20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,393.43	174.95
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-350.27	
		For 1" Mesh Fabric, Add	812.62	
		For 1-1/4" Mesh Fabric, Add	523.07	
		For 1-3/4" Mesh Fabric, Add	325.05	
		For 2-1/8" Mesh Fabric, Deduct	-162.52	
		For Gate With Single Barb Wire Arm, Add	205.49	
		For Gate With Double Barb Wire Arm, Add	298.90	
32 31 13 13-0526	EA	22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,646.20	196.90
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-385.30	
		For 1" Mesh Fabric, Add	893.89	
		For 1-1/4" Mesh Fabric, Add	575.37	
		For 1-3/4" Mesh Fabric, Add	357.55	
		For 2-1/8" Mesh Fabric, Deduct	-178.78	
		For Gate With Single Barb Wire Arm, Add	226.04	
		For Gate With Double Barb Wire Arm, Add	328.79	
32 31 13 13-0527	EA	24' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,917.07	224.84
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-420.32	
		For 1" Mesh Fabric, Add	975.15	
		For 1-1/4" Mesh Fabric, Add	627.68	
		For 1-3/4" Mesh Fabric, Add	390.06	
		For 2-1/8" Mesh Fabric, Deduct	-195.03	
		For Gate With Single Barb Wire Arm, Add	246.59	
		For Gate With Double Barb Wire Arm, Add	358.68	
32 31 13 13-0528	EA	26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,216.93	262.49
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-455.35	
		For 1" Mesh Fabric, Add	1,056.41	
		For 1-1/4" Mesh Fabric, Add	679.99	
		For 1-3/4" Mesh Fabric, Add	422.57	
		For 2-1/8" Mesh Fabric, Deduct	-211.28	
		For Gate With Single Barb Wire Arm, Add	267.14	
		For Gate With Double Barb Wire Arm, Add	388.57	
32 31 13 13-0529	EA	28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,560.57	314.78
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-490.38	
		For 1" Mesh Fabric, Add	1,137.68	
		For 1-1/4" Mesh Fabric, Add	732.30	
		For 1-3/4" Mesh Fabric, Add	455.07	
		For 2-1/8" Mesh Fabric, Deduct	-227.54	
		For Gate With Single Barb Wire Arm, Add	287.69	
		For Gate With Double Barb Wire Arm, Add	418.46	
32 31 13 13-0530	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,984.74	393.80
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-525.41	
		For 1" Mesh Fabric, Add	1,218.94	
		For 1-1/4" Mesh Fabric, Add	784.60	
		For 1-3/4" Mesh Fabric, Add	487.58	
		For 2-1/8" Mesh Fabric, Deduct	-243.79	
		For Gate With Single Barb Wire Arm, Add	308.24	
		For Gate With Double Barb Wire Arm, Add	448.35	
32 31 13 13-0531 12' Fence Height (32 31 13 13-0410)				
32 31 13 13-0532	EA	3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	462.31	45.49
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.06	
		For 1" Mesh Fabric, Add	141.66	
		For 1-1/4" Mesh Fabric, Add	91.18	
		For 1-3/4" Mesh Fabric, Add	56.66	
		For 2-1/8" Mesh Fabric, Deduct	-28.33	
		For Gate With Single Barb Wire Arm, Add	35.82	
		For Gate With Double Barb Wire Arm, Add	52.11	
32 31 13 13-0533	EA	4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	570.56	45.49
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.36	
		For 1" Mesh Fabric, Add	188.75	
		For 1-1/4" Mesh Fabric, Add	121.49	
		For 1-3/4" Mesh Fabric, Add	75.50	
		For 2-1/8" Mesh Fabric, Deduct	-37.75	
		For Gate With Single Barb Wire Arm, Add	47.73	
		For Gate With Double Barb Wire Arm, Add	69.43	
32 31 13 13-0534	EA	5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	656.11	47.16
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-96.46	
		For 1" Mesh Fabric, Add	223.78	
		For 1-1/4" Mesh Fabric, Add	144.04	
		For 1-3/4" Mesh Fabric, Add	89.51	
		For 2-1/8" Mesh Fabric, Deduct	-44.76	
		For Gate With Single Barb Wire Arm, Add	56.59	
		For Gate With Double Barb Wire Arm, Add	82.31	
32 31 13 13-0535	EA	6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	757.53	58.55
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.04	
		For 1" Mesh Fabric, Add	252.97	
		For 1-1/4" Mesh Fabric, Add	162.83	
		For 1-3/4" Mesh Fabric, Add	101.19	
		For 2-1/8" Mesh Fabric, Deduct	-50.59	
		For Gate With Single Barb Wire Arm, Add	63.97	
		For Gate With Double Barb Wire Arm, Add	93.04	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32	31	13	13-0536 EA 7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	866.39	70.07
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-123.02	
			For 1" Mesh Fabric, Add	285.39	
			For 1-1/4" Mesh Fabric, Add	183.70	
			For 1-3/4" Mesh Fabric, Add	114.16	
			For 2-1/8" Mesh Fabric, Deduct	-57.08	
			For Gate With Single Barb Wire Arm, Add	72.17	
			For Gate With Double Barb Wire Arm, Add	104.97	
32	31	13	13-0537 EA 8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	974.16	81.14
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-137.00	
			For 1" Mesh Fabric, Add	317.83	
			For 1-1/4" Mesh Fabric, Add	204.58	
			For 1-3/4" Mesh Fabric, Add	127.13	
			For 2-1/8" Mesh Fabric, Deduct	-63.57	
			For Gate With Single Barb Wire Arm, Add	80.37	
			For Gate With Double Barb Wire Arm, Add	116.90	
32	31	13	13-0538 EA 9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,083.02	92.53
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-150.97	
			For 1" Mesh Fabric, Add	350.26	
			For 1-1/4" Mesh Fabric, Add	225.45	
			For 1-3/4" Mesh Fabric, Add	140.10	
			For 2-1/8" Mesh Fabric, Deduct	-70.05	
			For Gate With Single Barb Wire Arm, Add	88.57	
			For Gate With Double Barb Wire Arm, Add	128.83	
32	31	13	13-0539 EA 10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,184.44	103.94
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-163.55	
			For 1" Mesh Fabric, Add	379.45	
			For 1-1/4" Mesh Fabric, Add	244.24	
			For 1-3/4" Mesh Fabric, Add	151.78	
			For 2-1/8" Mesh Fabric, Deduct	-75.89	
			For Gate With Single Barb Wire Arm, Add	95.95	
			For Gate With Double Barb Wire Arm, Add	139.57	
32	31	13	13-0540 EA 10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,683.28	125.06
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-245.25	
			For 1" Mesh Fabric, Add	568.98	
			For 1-1/4" Mesh Fabric, Add	366.24	
			For 1-3/4" Mesh Fabric, Add	227.59	
			For 2-1/8" Mesh Fabric, Deduct	-113.80	
			For Gate With Single Barb Wire Arm, Add	143.88	
			For Gate With Double Barb Wire Arm, Add	209.28	
32	31	13	13-0541 EA 12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,016.25	134.64
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-302.28	
			For 1" Mesh Fabric, Add	701.30	
			For 1-1/4" Mesh Fabric, Add	451.41	
			For 1-3/4" Mesh Fabric, Add	280.52	
			For 2-1/8" Mesh Fabric, Deduct	-140.26	
			For Gate With Single Barb Wire Arm, Add	177.34	
			For Gate With Double Barb Wire Arm, Add	257.95	
32	31	13	13-0542 EA 14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,320.36	145.81
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-352.94	
			For 1" Mesh Fabric, Add	818.83	
			For 1-1/4" Mesh Fabric, Add	527.06	
			For 1-3/4" Mesh Fabric, Add	327.53	
			For 2-1/8" Mesh Fabric, Deduct	-163.77	
			For Gate With Single Barb Wire Arm, Add	207.06	
			For Gate With Double Barb Wire Arm, Add	301.18	
32	31	13	13-0543 EA 16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,628.46	158.99
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-403.27	
			For 1" Mesh Fabric, Add	935.58	
			For 1-1/4" Mesh Fabric, Add	602.21	
			For 1-3/4" Mesh Fabric, Add	374.23	
			For 2-1/8" Mesh Fabric, Deduct	-187.12	
			For Gate With Single Barb Wire Arm, Add	236.58	
			For Gate With Double Barb Wire Arm, Add	344.12	
32	31	13	13-0544 EA 18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,941.17	175.09
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-452.92	
			For 1" Mesh Fabric, Add	1,050.78	
			For 1-1/4" Mesh Fabric, Add	676.36	
			For 1-3/4" Mesh Fabric, Add	420.31	
			For 2-1/8" Mesh Fabric, Deduct	-210.16	
			For Gate With Single Barb Wire Arm, Add	265.71	
			For Gate With Double Barb Wire Arm, Add	386.49	
32	31	13	13-0545 EA 20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,267.49	194.37
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-503.25	
			For 1" Mesh Fabric, Add	1,167.53	
			For 1-1/4" Mesh Fabric, Add	751.51	
			For 1-3/4" Mesh Fabric, Add	467.01	
			For 2-1/8" Mesh Fabric, Deduct	-233.51	
			For Gate With Single Barb Wire Arm, Add	295.24	
			For Gate With Double Barb Wire Arm, Add	429.44	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0546	EA 22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,609.37 -553.57 1,284.29 826.67 513.71 -256.86 324.76 472.38	218.72
32 31 13	13-0547	EA 24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,971.15 -603.90 1,401.04 901.82 560.42 -280.21 354.29 515.32	249.85
32 31 13	13-0548	EA 26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	4,374.11 -655.90 1,521.68 979.47 608.67 -304.34 384.79 559.70	291.76
32 31 13	13-0549	EA 28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	4,816.77 -706.22 1,638.44 1,054.63 655.37 -327.69 414.32 602.64	349.76
32 31 13	13-0550	EA 30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	5,348.90 -756.55 1,755.19 1,129.78 702.08 -351.04 443.84 645.59	437.57
32 31 13	13-0551	Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0268) Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0647 for additional gate accessories, 32 31 13 13-0743 for gate replacement parts.		
32 31 13	13-0552	4' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)		
32 31 13	13-0553	EA 10' Long x 4' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,717.04 806.18 518.92 322.47 -161.24 203.86 555.98	431.85
32 31 13	13-0554	EA 12' Long x 4' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,266.57 967.41 622.70 386.97 -193.48 244.63 667.18	521.38
32 31 13	13-0555	EA 14' Long x 4' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,811.25 1,128.65 726.49 451.46 -225.73 285.41 778.38	608.26
32 31 13	13-0556	EA 16' Long x 4' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,363.48 1,289.89 830.27 515.96 -257.98 326.18 889.58	699.13
32 31 13	13-0557	EA 18' Long x 4' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,908.97 1,451.13 934.06 580.45 -290.23 366.95 1,000.78	786.53



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0558	EA	20'	Long x 4' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,438.32 1,612.36 1,037.84 644.94 -322.47 407.72 1,111.97	865.83
32 31 13 13-0559	EA	24'	Long x 4' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	6,500.53 1,920.63 1,236.27 768.25 -384.13 485.68 1,324.58	1,042.63
32 31 13 13-0560	EA	30'	Long x 4' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	9,495.97 2,418.54 1,556.76 967.42 -483.71 611.58 1,667.96	1,968.07
32 31 13 13-0561	EA	40'	Long x 4' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	12,661.30 3,224.72 2,075.68 1,289.89 -644.94 815.45 2,223.95	2,624.09
32 31 13 13-0562			5' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)		
32 31 13 13-0563	EA	10'	Long x 5' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	2,847.80 829.87 534.17 331.95 -165.97 209.85 572.33	470.03
32 31 13 13-0564	EA	12'	Long x 5' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,416.06 995.85 641.01 398.34 -199.17 251.82 686.79	563.43
32 31 13 13-0565	EA	14'	Long x 5' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,985.17 1,161.82 747.84 464.73 -232.36 293.79 801.26	657.22
32 31 13 13-0566	EA	16'	Long x 5' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,554.86 1,327.80 854.68 531.12 -265.56 335.77 915.73	751.28
32 31 13 13-0567	EA	18'	Long x 5' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,123.90 1,493.77 961.51 597.51 -298.75 377.73 1,030.19	844.94
32 31 13 13-0568	EA	20'	Long x 5' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,693.29 1,659.75 1,068.34 663.90 -331.95 419.71 1,144.65	938.87
32 31 13 13-0569	EA	24'	Long x 5' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	6,800.91 1,977.08 1,272.61 790.83 -395.42 499.95 1,363.51	1,127.92
32 31 13 13-0570	EA	30'	Long x 5' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	8,540.43 2,489.62 1,602.51 995.85 -497.92 629.56 1,716.98	1,408.64

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0571	EA	40' Long x 5' High Chain Link Galvanized Steel Sliding Gate	11,386.57	1,877.74
			For 1" Mesh Fabric, Add	3,319.49	
			For 1-1/4" Mesh Fabric, Add	2,136.68	
			For 1-3/4" Mesh Fabric, Add	1,327.80	
			For 2-1/8" Mesh Fabric, Deduct	-663.90	
			For Gate With Barb Wire Arm, Add	839.41	
			For Vinyl Coated, Add	2,289.30	
32 31 13 13-0572 6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)					
32 31 13	13-0573	EA	10' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,047.89	551.06
			For 1" Mesh Fabric, Add	846.46	
			For 1-1/4" Mesh Fabric, Add	544.85	
			For 1-3/4" Mesh Fabric, Add	338.58	
			For 2-1/8" Mesh Fabric, Deduct	-169.29	
			For Gate With Barb Wire Arm, Add	214.05	
			For Vinyl Coated, Add	583.76	
32 31 13	13-0574	EA	12' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,653.60	659.22
			For 1" Mesh Fabric, Add	1,015.75	
			For 1-1/4" Mesh Fabric, Add	653.82	
			For 1-3/4" Mesh Fabric, Add	406.30	
			For 2-1/8" Mesh Fabric, Deduct	-203.15	
			For Gate With Barb Wire Arm, Add	256.86	
			For Vinyl Coated, Add	700.52	
32 31 13	13-0575	EA	14' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,262.28	768.97
			For 1" Mesh Fabric, Add	1,185.04	
			For 1-1/4" Mesh Fabric, Add	762.79	
			For 1-3/4" Mesh Fabric, Add	474.02	
			For 2-1/8" Mesh Fabric, Deduct	-237.01	
			For Gate With Barb Wire Arm, Add	299.67	
			For Vinyl Coated, Add	817.27	
32 31 13	13-0576	EA	16' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,871.46	879.00
			For 1" Mesh Fabric, Add	1,354.33	
			For 1-1/4" Mesh Fabric, Add	871.75	
			For 1-3/4" Mesh Fabric, Add	541.73	
			For 2-1/8" Mesh Fabric, Deduct	-270.87	
			For Gate With Barb Wire Arm, Add	342.48	
			For Vinyl Coated, Add	934.02	
32 31 13	13-0577	EA	18' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,480.16	988.76
			For 1" Mesh Fabric, Add	1,523.63	
			For 1-1/4" Mesh Fabric, Add	980.73	
			For 1-3/4" Mesh Fabric, Add	609.45	
			For 2-1/8" Mesh Fabric, Deduct	-304.73	
			For Gate With Barb Wire Arm, Add	385.28	
			For Vinyl Coated, Add	1,050.78	
32 31 13	13-0578	EA	20' Long x 6' High Chain Link Galvanized Steel Sliding Gate	6,096.25	1,102.24
			For 1" Mesh Fabric, Add	1,692.92	
			For 1-1/4" Mesh Fabric, Add	1,089.70	
			For 1-3/4" Mesh Fabric, Add	677.17	
			For 2-1/8" Mesh Fabric, Deduct	-338.58	
			For Gate With Barb Wire Arm, Add	428.09	
			For Vinyl Coated, Add	1,167.53	
32 31 13	13-0579	EA	24' Long x 6' High Chain Link Galvanized Steel Sliding Gate	7,272.94	1,318.57
			For 1" Mesh Fabric, Add	2,016.60	
			For 1-1/4" Mesh Fabric, Add	1,298.04	
			For 1-3/4" Mesh Fabric, Add	806.64	
			For 2-1/8" Mesh Fabric, Deduct	-403.32	
			For Gate With Barb Wire Arm, Add	509.94	
			For Vinyl Coated, Add	1,390.76	
32 31 13	13-0580	EA	30' Long x 6' High Chain Link Galvanized Steel Sliding Gate	9,134.81	1,648.64
			For 1" Mesh Fabric, Add	2,539.38	
			For 1-1/4" Mesh Fabric, Add	1,634.54	
			For 1-3/4" Mesh Fabric, Add	1,015.75	
			For 2-1/8" Mesh Fabric, Deduct	-507.88	
			For Gate With Barb Wire Arm, Add	642.14	
			For Vinyl Coated, Add	1,751.30	
32 31 13	13-0581	EA	40' Long x 6' High Chain Link Galvanized Steel Sliding Gate	12,177.93	2,197.16
			For 1" Mesh Fabric, Add	3,385.84	
			For 1-1/4" Mesh Fabric, Add	2,179.39	
			For 1-3/4" Mesh Fabric, Add	1,354.33	
			For 2-1/8" Mesh Fabric, Deduct	-677.17	
			For Gate With Barb Wire Arm, Add	856.19	
			For Vinyl Coated, Add	2,335.06	
32 31 13 13-0582 7' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)					
32 31 13	13-0583	EA	10' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,251.44	614.64
			For 1" Mesh Fabric, Add	879.63	
			For 1-1/4" Mesh Fabric, Add	566.20	
			For 1-3/4" Mesh Fabric, Add	351.85	
			For 2-1/8" Mesh Fabric, Deduct	-175.93	
			For Gate With Barb Wire Arm, Add	222.44	
			For Vinyl Coated, Add	606.64	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0584	EA	12' Long x 7' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,900.77 1,055.59 679.46 422.24 -211.12 266.93 727.99	737.05
32 31 13	13-0585	EA	14' Long x 7' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,552.09 1,231.48 792.68 492.59 -246.30 311.41 849.30	860.51
32 31 13	13-0586	EA	16' Long x 7' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,201.29 1,407.41 905.92 562.96 -281.48 355.90 970.63	982.91
32 31 13	13-0587	EA	18' Long x 7' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,851.66 1,583.33 1,019.16 633.33 -316.67 400.38 1,091.96	1,105.97
32 31 13	13-0588	EA	20' Long x 7' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	6,501.17 1,759.26 1,132.40 703.70 -351.85 444.87 1,213.28	1,228.50
32 31 13	13-0589	EA	24' Long x 7' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	7,765.80 2,095.63 1,348.91 838.25 -419.13 529.93 1,445.26	1,474.09
32 31 13	13-0590	EA	30' Long x 7' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	9,751.75 2,638.89 1,698.59 1,055.56 -527.78 667.31 1,819.92	1,842.61
32 31 13	13-0591	EA	40' Long x 7' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	13,002.34 3,518.52 2,264.79 1,407.41 -703.70 889.74 2,426.57	2,456.86
32 31 13	13-0592		8' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)		
32 31 13	13-0593	EA	10' Long x 8' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,413.80 905.70 582.98 362.28 -181.14 229.03 624.62	665.87
32 31 13	13-0594	EA	12' Long x 8' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,092.72 1,086.83 699.57 434.73 -217.37 274.83 749.54	797.18
32 31 13	13-0595	EA	14' Long x 8' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,774.93 1,267.97 816.16 507.19 -253.59 320.64 874.46	930.09
32 31 13	13-0596	EA	16' Long x 8' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,457.38 1,449.11 932.76 579.64 -289.82 366.44 999.38	1,062.99

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0597	EA	18' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,138.35	1,195.38
			For 1" Mesh Fabric, Add	1,630.25	
			For 1-1/4" Mesh Fabric, Add	1,049.35	
			For 1-3/4" Mesh Fabric, Add	652.10	
			For 2-1/8" Mesh Fabric, Deduct	-326.05	
			For Gate With Barb Wire Arm, Add	412.25	
			For Vinyl Coated, Add	1,124.31	
32 31 13	13-0598	EA	20' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,820.92	1,328.41
			For 1" Mesh Fabric, Add	1,811.38	
			For 1-1/4" Mesh Fabric, Add	1,165.95	
			For 1-3/4" Mesh Fabric, Add	724.55	
			For 2-1/8" Mesh Fabric, Deduct	-362.28	
			For Gate With Barb Wire Arm, Add	458.05	
			For Vinyl Coated, Add	1,249.23	
32 31 13	13-0599	EA	24' Long x 8' High Chain Link Galvanized Steel Sliding Gate	8,148.78	1,594.23
			For 1" Mesh Fabric, Add	2,157.72	
			For 1-1/4" Mesh Fabric, Add	1,388.88	
			For 1-3/4" Mesh Fabric, Add	863.09	
			For 2-1/8" Mesh Fabric, Deduct	-431.54	
			For Gate With Barb Wire Arm, Add	545.63	
			For Vinyl Coated, Add	1,488.08	
32 31 13	13-0600	EA	30' Long x 8' High Chain Link Galvanized Steel Sliding Gate	10,232.40	1,993.08
			For 1" Mesh Fabric, Add	2,717.08	
			For 1-1/4" Mesh Fabric, Add	1,748.92	
			For 1-3/4" Mesh Fabric, Add	1,086.83	
			For 2-1/8" Mesh Fabric, Deduct	-543.42	
			For Gate With Barb Wire Arm, Add	687.08	
			For Vinyl Coated, Add	1,873.85	
32 31 13	13-0601	EA	40' Long x 8' High Chain Link Galvanized Steel Sliding Gate	13,639.21	2,655.49
			For 1" Mesh Fabric, Add	3,622.77	
			For 1-1/4" Mesh Fabric, Add	2,331.90	
			For 1-3/4" Mesh Fabric, Add	1,449.11	
			For 2-1/8" Mesh Fabric, Deduct	-724.55	
			For Gate With Barb Wire Arm, Add	916.10	
			For Vinyl Coated, Add	2,498.46	
32 31 13	13-0602		9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)		
32 31 13	13-0603	EA	10' Long x 9' High Chain Link Galvanized Steel Sliding Gate	3,605.67	726.40
			For 1" Mesh Fabric, Add	936.49	
			For 1-1/4" Mesh Fabric, Add	602.80	
			For 1-3/4" Mesh Fabric, Add	374.60	
			For 2-1/8" Mesh Fabric, Deduct	-187.30	
			For Gate With Barb Wire Arm, Add	236.81	
			For Vinyl Coated, Add	645.86	
32 31 13	13-0604	EA	12' Long x 9' High Chain Link Galvanized Steel Sliding Gate	4,321.39	869.02
			For 1" Mesh Fabric, Add	1,123.79	
			For 1-1/4" Mesh Fabric, Add	723.36	
			For 1-3/4" Mesh Fabric, Add	449.52	
			For 2-1/8" Mesh Fabric, Deduct	-224.76	
			For Gate With Barb Wire Arm, Add	284.18	
			For Vinyl Coated, Add	775.03	
32 31 13	13-0605	EA	14' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,041.30	1,013.64
			For 1" Mesh Fabric, Add	1,311.09	
			For 1-1/4" Mesh Fabric, Add	843.92	
			For 1-3/4" Mesh Fabric, Add	524.44	
			For 2-1/8" Mesh Fabric, Deduct	-262.22	
			For Gate With Barb Wire Arm, Add	331.54	
			For Vinyl Coated, Add	904.20	
32 31 13	13-0606	EA	16' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,762.35	1,158.92
			For 1" Mesh Fabric, Add	1,498.39	
			For 1-1/4" Mesh Fabric, Add	964.48	
			For 1-3/4" Mesh Fabric, Add	599.36	
			For 2-1/8" Mesh Fabric, Deduct	-299.68	
			For Gate With Barb Wire Arm, Add	378.90	
			For Vinyl Coated, Add	1,033.37	
32 31 13	13-0607	EA	18' Long x 9' High Chain Link Galvanized Steel Sliding Gate	6,482.51	1,303.66
			For 1" Mesh Fabric, Add	1,685.69	
			For 1-1/4" Mesh Fabric, Add	1,085.04	
			For 1-3/4" Mesh Fabric, Add	674.28	
			For 2-1/8" Mesh Fabric, Deduct	-337.14	
			For Gate With Barb Wire Arm, Add	426.27	
			For Vinyl Coated, Add	1,162.55	
32 31 13	13-0608	EA	20' Long x 9' High Chain Link Galvanized Steel Sliding Gate	7,202.65	1,448.41
			For 1" Mesh Fabric, Add	1,872.99	
			For 1-1/4" Mesh Fabric, Add	1,205.60	
			For 1-3/4" Mesh Fabric, Add	749.20	
			For 2-1/8" Mesh Fabric, Deduct	-374.60	
			For Gate With Barb Wire Arm, Add	473.63	
			For Vinyl Coated, Add	1,291.72	
32 31 13	13-0609	EA	24' Long x 9' High Chain Link Galvanized Steel Sliding Gate	8,604.87	1,737.91
			For 1" Mesh Fabric, Add	2,231.10	
			For 1-1/4" Mesh Fabric, Add	1,436.11	
			For 1-3/4" Mesh Fabric, Add	892.44	
			For 2-1/8" Mesh Fabric, Deduct	-446.22	
			For Gate With Barb Wire Arm, Add	564.19	
			For Vinyl Coated, Add	1,538.69	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0610	EA		30' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	10,802.77	2,172.16
			For 1" Mesh Fabric, Add	2,809.48	
			For 1-1/4" Mesh Fabric, Add	1,808.40	
			For 1-3/4" Mesh Fabric, Add	1,123.79	
			For 2-1/8" Mesh Fabric, Deduct	-561.90	
			For Gate With Barb Wire Arm, Add	710.44	
			For Vinyl Coated, Add	1,937.57	
32 31 13 13-0611	EA		40' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	14,408.44	2,898.56
			For 1" Mesh Fabric, Add	3,745.99	
			For 1-1/4" Mesh Fabric, Add	2,411.21	
			For 1-3/4" Mesh Fabric, Add	1,498.39	
			For 2-1/8" Mesh Fabric, Deduct	-749.20	
			For Gate With Barb Wire Arm, Add	947.26	
			For Vinyl Coated, Add	2,583.44	
32 31 13 13-0612			10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)		
32 31 13 13-0613	EA		10' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	3,843.55	799.05
			For 1" Mesh Fabric, Add	976.78	
			For 1-1/4" Mesh Fabric, Add	628.73	
			For 1-3/4" Mesh Fabric, Add	390.71	
			For 2-1/8" Mesh Fabric, Deduct	-195.36	
			For Gate With Barb Wire Arm, Add	247.00	
			For Vinyl Coated, Add	673.64	
32 31 13 13-0614	EA		12' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	4,612.25	958.83
			For 1" Mesh Fabric, Add	1,172.13	
			For 1-1/4" Mesh Fabric, Add	754.47	
			For 1-3/4" Mesh Fabric, Add	468.85	
			For 2-1/8" Mesh Fabric, Deduct	-234.43	
			For Gate With Barb Wire Arm, Add	296.40	
			For Vinyl Coated, Add	808.37	
32 31 13 13-0615	EA		14' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	5,381.51	1,118.88
			For 1" Mesh Fabric, Add	1,367.49	
			For 1-1/4" Mesh Fabric, Add	880.22	
			For 1-3/4" Mesh Fabric, Add	547.00	
			For 2-1/8" Mesh Fabric, Deduct	-273.50	
			For Gate With Barb Wire Arm, Add	345.80	
			For Vinyl Coated, Add	943.10	
32 31 13 13-0616	EA		16' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	6,149.98	1,278.66
			For 1" Mesh Fabric, Add	1,562.84	
			For 1-1/4" Mesh Fabric, Add	1,005.97	
			For 1-3/4" Mesh Fabric, Add	625.14	
			For 2-1/8" Mesh Fabric, Deduct	-312.57	
			For Gate With Barb Wire Arm, Add	395.20	
			For Vinyl Coated, Add	1,077.82	
32 31 13 13-0617	EA		18' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	6,918.38	1,438.30
			For 1" Mesh Fabric, Add	1,758.19	
			For 1-1/4" Mesh Fabric, Add	1,131.71	
			For 1-3/4" Mesh Fabric, Add	703.28	
			For 2-1/8" Mesh Fabric, Deduct	-351.64	
			For Gate With Barb Wire Arm, Add	444.60	
			For Vinyl Coated, Add	1,212.55	
32 31 13 13-0618	EA		20' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	7,687.08	1,598.08
			For 1" Mesh Fabric, Add	1,953.55	
			For 1-1/4" Mesh Fabric, Add	1,257.45	
			For 1-3/4" Mesh Fabric, Add	781.42	
			For 2-1/8" Mesh Fabric, Deduct	-390.71	
			For Gate With Barb Wire Arm, Add	494.00	
			For Vinyl Coated, Add	1,347.27	
32 31 13 13-0619	EA		24' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	9,186.36	1,918.45
			For 1" Mesh Fabric, Add	2,327.06	
			For 1-1/4" Mesh Fabric, Add	1,497.88	
			For 1-3/4" Mesh Fabric, Add	930.83	
			For 2-1/8" Mesh Fabric, Deduct	-465.41	
			For Gate With Barb Wire Arm, Add	588.45	
			For Vinyl Coated, Add	1,604.87	
32 31 13 13-0620	EA		30' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	11,530.63	2,397.13
			For 1" Mesh Fabric, Add	2,930.32	
			For 1-1/4" Mesh Fabric, Add	1,886.18	
			For 1-3/4" Mesh Fabric, Add	1,172.13	
			For 2-1/8" Mesh Fabric, Deduct	-586.06	
			For Gate With Barb Wire Arm, Add	741.00	
			For Vinyl Coated, Add	2,020.91	
32 31 13 13-0621	EA		40' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	15,370.34	3,194.30
			For 1" Mesh Fabric, Add	3,907.10	
			For 1-1/4" Mesh Fabric, Add	2,514.92	
			For 1-3/4" Mesh Fabric, Add	1,562.84	
			For 2-1/8" Mesh Fabric, Deduct	-781.42	
			For Gate With Barb Wire Arm, Add	988.00	
			For Vinyl Coated, Add	2,694.55	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 31 13 13-0622	Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller ⁽³²⁾ 31 13 13-0268 Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0021 for gate operators.		
32 31 13 13-0623	EA 5' High x 10' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	7,633.32 2,857.52 1,839.32 1,143.01 -571.50 722.59 1,051.04 3,153.12 1,379.49 1,970.70	532.17
32 31 13 13-0624	EA 5' High x 12' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	8,346.58 3,052.03 1,964.53 1,220.81 -610.41 771.78 1,122.59 3,367.76 1,473.40 2,104.85	665.20
32 31 13 13-0625	EA 5' High x 15' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	9,065.98 3,249.23 2,091.46 1,299.69 -649.85 821.64 1,195.12 3,585.36 1,568.59 2,240.85	798.24
32 31 13 13-0626	EA 5' High x 20' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	10,594.06 3,682.45 2,370.31 1,472.98 -736.49 931.20 1,354.47 4,063.40 1,777.74 2,539.62	1,064.32
32 31 13 13-0627	EA 6' High x 15' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	9,821.34 3,346.32 2,153.95 1,338.53 -669.26 846.20 1,230.83 3,692.49 1,615.46 2,307.81	1,064.32
32 31 13 13-0628	EA 6' High x 20' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	11,457.36 3,768.63 2,425.78 1,507.45 -753.73 952.99 1,386.16 4,158.48 1,819.34 2,599.05	1,396.93
32 31 13 13-0629	EA 6' High x 25' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	15,233.99 5,122.09 3,296.98 2,048.84 -1,024.42 1,295.24 1,883.99 5,651.97 2,472.74 3,532.48	1,729.53
32 31 13 13-0630	EA 6' High x 30' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	17,119.37 5,652.87 3,638.63 2,261.15 -1,130.57 1,429.46 2,079.22 6,237.65 2,728.97 3,898.53	2,062.13



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0631	EA	6' High x 36' Wide Galvanized Cantilever Sliding Gate.....	20,117.51	2,261.70
			For 1" Mesh Fabric, Add	6,783.45	
			For 1-1/4" Mesh Fabric, Add	4,366.36	
			For 1-3/4" Mesh Fabric, Add	2,713.38	
			For 2-1/8" Mesh Fabric, Deduct	-1,356.69	
			For Gate With Single Barb Wire Arm, Add	1,715.35	
			For Gate With Double Barb Wire Arm, Add	2,495.06	
			For Aluminized Steel Gate And Post, Add	7,485.18	
			For Powder Coated Gate And Post, Add	3,274.77	
			For Vinyl Coated, Add	4,678.24	
32 31 13	13-0632	EA	8' High x 15' Wide Galvanized Cantilever Sliding Gate.....	11,462.08	1,330.41
			For 1" Mesh Fabric, Add	3,828.55	
			For 1-1/4" Mesh Fabric, Add	2,464.35	
			For 1-3/4" Mesh Fabric, Add	1,531.42	
			For 2-1/8" Mesh Fabric, Deduct	-765.71	
			For Gate With Single Barb Wire Arm, Add	968.14	
			For Gate With Double Barb Wire Arm, Add	1,408.20	
			For Aluminized Steel Gate And Post, Add	4,224.60	
			For Powder Coated Gate And Post, Add	1,848.26	
			For Vinyl Coated, Add	2,640.38	
32 31 13	13-0633	EA	8' High x 20' Wide Galvanized Cantilever Sliding Gate.....	13,502.43	1,796.05
			For 1" Mesh Fabric, Add	4,310.99	
			For 1-1/4" Mesh Fabric, Add	2,774.89	
			For 1-3/4" Mesh Fabric, Add	1,724.40	
			For 2-1/8" Mesh Fabric, Deduct	-862.20	
			For Gate With Single Barb Wire Arm, Add	1,090.14	
			For Gate With Double Barb Wire Arm, Add	1,585.65	
			For Aluminized Steel Gate And Post, Add	4,756.96	
			For Powder Coated Gate And Post, Add	2,081.17	
			For Vinyl Coated, Add	2,973.10	
32 31 13	13-0634	EA	8' High x 25' Wide Galvanized Cantilever Sliding Gate.....	17,992.86	2,261.70
			For 1" Mesh Fabric, Add	5,859.22	
			For 1-1/4" Mesh Fabric, Add	3,771.45	
			For 1-3/4" Mesh Fabric, Add	2,343.69	
			For 2-1/8" Mesh Fabric, Deduct	-1,171.84	
			For Gate With Single Barb Wire Arm, Add	1,481.64	
			For Gate With Double Barb Wire Arm, Add	2,155.12	
			For Aluminized Steel Gate And Post, Add	6,465.35	
			For Powder Coated Gate And Post, Add	2,828.59	
			For Vinyl Coated, Add	4,040.84	
32 31 13	13-0635	EA	8' High x 30' Wide Galvanized Cantilever Sliding Gate.....	20,185.18	2,660.82
			For 1" Mesh Fabric, Add	6,465.64	
			For 1-1/4" Mesh Fabric, Add	4,161.79	
			For 1-3/4" Mesh Fabric, Add	2,586.26	
			For 2-1/8" Mesh Fabric, Deduct	-1,293.13	
			For Gate With Single Barb Wire Arm, Add	1,634.99	
			For Gate With Double Barb Wire Arm, Add	2,378.17	
			For Aluminized Steel Gate And Post, Add	7,134.50	
			For Powder Coated Gate And Post, Add	3,121.35	
			For Vinyl Coated, Add	4,459.07	
32 31 13	13-0636	EA	8' High x 36' Wide Galvanized Cantilever Sliding Gate.....	23,690.05	2,926.90
			For 1" Mesh Fabric, Add	7,758.77	
			For 1-1/4" Mesh Fabric, Add	4,994.15	
			For 1-3/4" Mesh Fabric, Add	3,103.51	
			For 2-1/8" Mesh Fabric, Deduct	-1,551.75	
			For Gate With Single Barb Wire Arm, Add	1,961.99	
			For Gate With Double Barb Wire Arm, Add	2,853.80	
			For Aluminized Steel Gate And Post, Add	8,561.40	
			For Powder Coated Gate And Post, Add	3,745.61	
			For Vinyl Coated, Add	5,350.88	
32 31 13	13-0637	EA	10' High x 15' Wide Galvanized Cantilever Sliding Gate.....	13,094.39	1,596.49
			For 1" Mesh Fabric, Add	4,307.12	
			For 1-1/4" Mesh Fabric, Add	2,772.40	
			For 1-3/4" Mesh Fabric, Add	1,722.85	
			For 2-1/8" Mesh Fabric, Deduct	-861.42	
			For Gate With Single Barb Wire Arm, Add	1,089.16	
			For Gate With Double Barb Wire Arm, Add	1,584.23	
			For Aluminized Steel Gate And Post, Add	4,752.68	
			For Powder Coated Gate And Post, Add	2,079.30	
			For Vinyl Coated, Add	2,970.43	
32 31 13	13-0638	EA	10' High x 20' Wide Galvanized Cantilever Sliding Gate.....	15,149.50	2,062.13
			For 1" Mesh Fabric, Add	4,795.98	
			For 1-1/4" Mesh Fabric, Add	3,087.07	
			For 1-3/4" Mesh Fabric, Add	1,918.39	
			For 2-1/8" Mesh Fabric, Deduct	-959.20	
			For Gate With Single Barb Wire Arm, Add	1,212.78	
			For Gate With Double Barb Wire Arm, Add	1,764.04	
			For Aluminized Steel Gate And Post, Add	5,292.12	
			For Powder Coated Gate And Post, Add	2,315.30	
			For Vinyl Coated, Add	3,307.57	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0639	EA	10' High x 25' Wide Galvanized Cantilever Sliding Gate.....	19,942.63	2,394.73
		For 1" Mesh Fabric, Add	6,591.63	
		For 1-1/4" Mesh Fabric, Add	4,242.89	
		For 1-3/4" Mesh Fabric, Add	2,636.65	
		For 2-1/8" Mesh Fabric, Deduct	-1,318.33	
		For Gate With Single Barb Wire Arm, Add	1,666.85	
		For Gate With Double Barb Wire Arm, Add	2,424.51	
		For Aluminized Steel Gate And Post, Add	7,273.52	
		For Powder Coated Gate And Post, Add	3,182.17	
		For Vinyl Coated, Add	4,545.95	
32 31 13 13-0640	EA	10' High x 30' Wide Galvanized Cantilever Sliding Gate.....	22,309.21	2,793.85
		For 1" Mesh Fabric, Add	7,273.85	
		For 1-1/4" Mesh Fabric, Add	4,682.02	
		For 1-3/4" Mesh Fabric, Add	2,909.54	
		For 2-1/8" Mesh Fabric, Deduct	-1,454.77	
		For Gate With Single Barb Wire Arm, Add	1,839.37	
		For Gate With Double Barb Wire Arm, Add	2,675.44	
		For Aluminized Steel Gate And Post, Add	8,026.32	
		For Powder Coated Gate And Post, Add	3,511.52	
		For Vinyl Coated, Add	5,016.45	
32 31 13 13-0641	EA	10' High x 36' Wide Galvanized Cantilever Sliding Gate.....	26,185.66	3,059.94
		For 1" Mesh Fabric, Add	8,728.62	
		For 1-1/4" Mesh Fabric, Add	5,618.42	
		For 1-3/4" Mesh Fabric, Add	3,491.45	
		For 2-1/8" Mesh Fabric, Deduct	-1,745.72	
		For Gate With Single Barb Wire Arm, Add	2,207.24	
		For Gate With Double Barb Wire Arm, Add	3,210.53	
		For Aluminized Steel Gate And Post, Add	9,631.58	
		For Powder Coated Gate And Post, Add	4,213.82	
		For Vinyl Coated, Add	6,019.74	
32 31 13 13-0642	EA	12' High x 15' Wide Galvanized Cantilever Sliding Gate.....	15,473.80	1,796.05
		For 1" Mesh Fabric, Add	5,168.54	
		For 1-1/4" Mesh Fabric, Add	3,326.88	
		For 1-3/4" Mesh Fabric, Add	2,067.42	
		For 2-1/8" Mesh Fabric, Deduct	-1,033.71	
		For Gate With Single Barb Wire Arm, Add	1,306.99	
		For Gate With Double Barb Wire Arm, Add	1,901.07	
		For Aluminized Steel Gate And Post, Add	5,703.22	
		For Powder Coated Gate And Post, Add	2,495.16	
		For Vinyl Coated, Add	3,564.51	
32 31 13 13-0643	EA	12' High x 20' Wide Galvanized Cantilever Sliding Gate.....	17,902.32	2,261.70
		For 1" Mesh Fabric, Add	5,819.84	
		For 1-1/4" Mesh Fabric, Add	3,746.10	
		For 1-3/4" Mesh Fabric, Add	2,327.94	
		For 2-1/8" Mesh Fabric, Deduct	-1,163.97	
		For Gate With Single Barb Wire Arm, Add	1,471.68	
		For Gate With Double Barb Wire Arm, Add	2,140.63	
		For Aluminized Steel Gate And Post, Add	6,421.89	
		For Powder Coated Gate And Post, Add	2,809.58	
		For Vinyl Coated, Add	4,013.68	
32 31 13 13-0644	EA	12' High x 25' Wide Galvanized Cantilever Sliding Gate.....	23,372.39	2,594.30
		For 1" Mesh Fabric, Add	7,909.95	
		For 1-1/4" Mesh Fabric, Add	5,091.46	
		For 1-3/4" Mesh Fabric, Add	3,163.98	
		For 2-1/8" Mesh Fabric, Deduct	-1,581.99	
		For Gate With Single Barb Wire Arm, Add	2,000.22	
		For Gate With Double Barb Wire Arm, Add	2,909.41	
		For Aluminized Steel Gate And Post, Add	8,728.22	
		For Powder Coated Gate And Post, Add	3,818.60	
		For Vinyl Coated, Add	5,455.14	
32 31 13 13-0645	EA	12' High x 30' Wide Galvanized Cantilever Sliding Gate.....	25,919.58	2,926.90
		For 1" Mesh Fabric, Add	8,728.62	
		For 1-1/4" Mesh Fabric, Add	5,618.42	
		For 1-3/4" Mesh Fabric, Add	3,491.45	
		For 2-1/8" Mesh Fabric, Deduct	-1,745.72	
		For Gate With Single Barb Wire Arm, Add	2,207.24	
		For Gate With Double Barb Wire Arm, Add	3,210.53	
		For Aluminized Steel Gate And Post, Add	9,631.58	
		For Powder Coated Gate And Post, Add	4,213.82	
		For Vinyl Coated, Add	6,019.74	
32 31 13 13-0646	EA	12' High x 36' Wide Galvanized Cantilever Sliding Gate.....	29,424.47	3,192.97
		For 1" Mesh Fabric, Add	10,021.75	
		For 1-1/4" Mesh Fabric, Add	6,450.78	
		For 1-3/4" Mesh Fabric, Add	4,008.70	
		For 2-1/8" Mesh Fabric, Deduct	-2,004.35	
		For Gate With Single Barb Wire Arm, Add	2,534.24	
		For Gate With Double Barb Wire Arm, Add	3,686.16	
		For Aluminized Steel Gate And Post, Add	11,058.48	
		For Powder Coated Gate And Post, Add	4,838.09	
		For Vinyl Coated, Add	6,911.55	
32 31 13 13-0647		Gate Accessories (32 31 13 13-0268)		
32 31 13 13-0648	EA	3" Wheel Diameter, 1" Wheel Width, Black Rubber, Spring-loaded Gate Caster	70.66	17.90
		Note: 100 Lb. max weight capacity		
32 31 13 13-0649	EA	4" Wheel Diameter, 1-1/4" Wheel Width, Black Rubber, Spring-loaded Gate Caster	81.17	17.90
		Note: 225 Lb. max weight capacity		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0650	EA		6" Wheel Diameter, 2" Wheel Width, Black Rubber, Spring-loaded Gate Caster Note: 550 Lb. max weight capacity	148.69	17.90
32 31 13 13-0651	EA		Gate Center Stop, Cast Steel, Ground	39.07	
32 31 13 13-0652	EA		Gate Latch, Malleable Galvanized Steel	54.33	
32 31 13 13-0653	EA		Gate Keeper, Full Length, Galvanized Steel	249.19	
32 31 13 13-0654	EA		Gate Keeper Hold-Open For Cantilever Gate	117.76	21.03
32 31 13 13-0655	EA		Heavy-Duty Gate Latch, Malleable Galvanized Steel	65.83	
32 31 13 13-0656	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate	1,140.31	
32 31 13 13-0657	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 6' To 8' High Gate	1,222.23	
32 31 13 13-0658	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 10' To 12' High Gate	1,304.14	
32 31 13 13-0659	LF		Aluminum V-Groove Gate Track	67.06	11.67
32 31 13 13-0660	LF		Galvanized Steel V-Groove Gate Track	48.71	11.67

32 31 13 13-0661 Vertical-Pivot Lift Gate (32 31 13 13-0268)

Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator.
Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.

32 31 13 13-0662	EA		5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate	29,843.51	997.81
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13 13-0663	EA		5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate	30,242.63	1,197.36
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13 13-0664	EA		5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate	30,641.75	1,396.93
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	287.50	
32 31 13 13-0665	EA		5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate	31,390.06	1,596.49
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13 13-0666	EA		5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate	32,120.91	1,796.05
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13 13-0667	EA		6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate	31,123.12	1,297.15
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13 13-0668	EA		6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate	31,522.24	1,496.70
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13 13-0669	EA		6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate	31,921.36	1,696.27
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	287.50	
32 31 13 13-0670	EA		6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate	32,512.54	1,895.83
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13 13-0671	EA		6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate	33,400.52	2,095.39
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	

32 31 13 13-0672 Reinforced Gate (32 31 13 13-0268)

Note: With cross bracing, tension rods, gate keeper (full height, stainless steel rod, internal locking device, gate stop), off-set hinges, and 6 gauge fabric. Excludes gate posts.

32 31 13 13-0673	LF		Reinforced Single Gate, 4' High, Galvanized	582.90	13.29
			For Vinyl Coated, Add	333.80	
			For Powder Coated, Add	445.06	
			For Aluminum Coated, Add	695.41	
32 31 13 13-0674	LF		Reinforced Single Gate, 5' High, Galvanized	625.46	14.39
			For Vinyl Coated, Add	358.01	
			For Powder Coated, Add	477.34	
			For Aluminum Coated, Add	745.85	
32 31 13 13-0675	LF		Reinforced Single Gate, 6' High, Galvanized	667.70	16.05
			For Vinyl Coated, Add	381.36	
			For Powder Coated, Add	508.48	
			For Aluminum Coated, Add	794.50	
32 31 13 13-0676	LF		Reinforced Single Gate, 7' High, Galvanized	707.49	17.16
			For Vinyl Coated, Add	403.90	
			For Powder Coated, Add	538.54	
			For Aluminum Coated, Add	841.46	
32 31 13 13-0677	LF		Reinforced Single Gate, 8' High, Galvanized	748.80	19.37
			For Vinyl Coated, Add	426.04	
			For Powder Coated, Add	568.05	
			For Aluminum Coated, Add	887.58	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0678	LF	Reinforced Double Gate, 4' High, Galvanized..... <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i>	399.20 223.58 298.10 465.79	13.29
32 31 13 13-0679	LF	Reinforced Double Gate, 5' High, Galvanized..... <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i>	448.03 251.55 335.40 524.06	14.39
32 31 13 13-0680	LF	Reinforced Double Gate, 6' High, Galvanized..... <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i>	496.29 278.51 371.35 580.24	16.05
32 31 13 13-0681	LF	Reinforced Double Gate, 7' High, Galvanized..... <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i>	636.46 361.28 481.71 752.68	17.16
32 31 13 13-0682	LF	Reinforced Double Gate, 8' High, Galvanized..... <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i>	775.50 442.06 589.41 920.95	19.37
32 31 13 13-0683		Accessories (32 31 13 13)		
32 31 13 13-0684		Barbed And Concertina Wire (32 31 13 13-0683)		
32 31 13 13-0685		Single Strand Barbed Wire (32 31 13 13-0684)		
32 31 13 13-0686	LF	12-1/2 Gauge, 4 Points, 5" O. C., ASTM A121, Class 1, Galvanized Barbed Wire, Per Strand..... Note: Includes clips. 4 points 12-1/2 Gauge, Class I. <i>For >500 To 2,000, Deduct</i> <i>For >2,000 To 5,000, Deduct</i>	1.25 -0.06 -0.09	0.55
32 31 13 13-0687	LF	12-1/2 Gauge, 4 Points, 5" O. C., ASTM A121, Class 3, Galvanized Barbed Wire, Per Strand..... <i>For >500 To 2,000, Deduct</i> <i>For >2,000 To 5,000, Deduct</i>	1.30 -0.06 -0.09	0.55
32 31 13 13-0688	LF	Vinyl Coated Barbed Wire (Fused), Per Strand Note: Includes clips. <i>For >500 To 2,000, Deduct</i> <i>For >2,000 To 5,000, Deduct</i>	1.41 -0.06 -0.09	0.55
32 31 13 13-0689	EA	Chain Link 2-1/2" (2-3/8" OD) x 1-5/8", 3 Strand, 45 Degree, Galvanized Steel, Barbed Wire Single Arm Mounted On Top Of Post.....	17.53	8.85
32 31 13 13-0690	EA	Chain Link 2-1/2" (2-3/8" OD) x 1-5/8", 6 Strand, 45 Degree, Galvanized Steel, Barbed Wire V-Barb Arm Mounted On Top Of Post.....	29.99	10.63
32 31 13 13-0691	EA	Barbed Wire Eye Tops (For Single Strand) Mounted On Top Of Post.....	14.59	8.85
32 31 13 13-0692		Galvanized Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0684)		
32 31 13 13-0693	LF	18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	6.08 -0.51 -1.02 -1.44 -0.56 4.97	0.77
32 31 13 13-0694	LF	18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	9.17 -0.77 -1.54 -2.17 -0.83 7.51	0.77
32 31 13 13-0695	LF	18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	12.15 -1.02 -2.04 -2.87 -1.11 9.94	0.77
32 31 13 13-0696	LF	24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	10.69 -0.86 -1.73 -2.38 -0.62 9.46	0.77
32 31 13 13-0697	LF	24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence..... <i>For >500 To 1,500, Deduct</i> <i>For >1,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i> <i>For Ground Installation, Deduct</i> <i>For Double Coil (Helix), Add</i>	16.15 -1.30 -2.61 -3.60 -0.92 14.31	0.77



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0698	LF		24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	21.34	0.77
			For >500 To 1,500, Deduct	-1.72	
			For >1,500 To 5,000, Deduct	-3.45	
			For >5,000, Deduct	-4.76	
			For Ground Installation, Deduct	-1.22	
			For Double Coil (Helix), Add	18.90	
32 31 13 13-0699	LF		30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	35.04	0.77
			For >500 To 1,500, Deduct	-2.70	
			For >1,500 To 5,000, Deduct	-5.39	
			For >5,000, Deduct	-7.28	
			For Ground Installation, Deduct	-0.69	
			For Double Coil (Helix), Add	33.66	
32 31 13 13-0700	LF		30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	53.05	0.77
			For >500 To 1,500, Deduct	-4.08	
			For >1,500 To 5,000, Deduct	-8.17	
			For >5,000, Deduct	-11.03	
			For Ground Installation, Deduct	-1.04	
			For Double Coil (Helix), Add	50.98	
32 31 13 13-0701	LF		30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	70.09	0.77
			For >500 To 1,500, Deduct	-5.40	
			For >1,500 To 5,000, Deduct	-10.79	
			For >5,000, Deduct	-14.57	
			For Ground Installation, Deduct	-1.38	
			For Double Coil (Helix), Add	67.33	
32 31 13 13-0702 Stainless Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0684)					
32 31 13 13-0703	LF		18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	11.62	0.77
			For >500 To 1,500, Deduct	-0.93	
			For >1,500 To 5,000, Deduct	-1.85	
			For >5,000, Deduct	-2.55	
			For Ground Installation, Deduct	-0.56	
			For Double Coil (Helix), Add	10.51	
32 31 13 13-0704	LF		18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	17.57	0.77
			For >500 To 1,500, Deduct	-1.40	
			For >1,500 To 5,000, Deduct	-2.80	
			For >5,000, Deduct	-3.85	
			For Ground Installation, Deduct	-0.83	
			For Double Coil (Helix), Add	15.91	
32 31 13 13-0705	LF		18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	23.23	0.77
			For >500 To 1,500, Deduct	-1.85	
			For >1,500 To 5,000, Deduct	-3.71	
			For >5,000, Deduct	-5.09	
			For Ground Installation, Deduct	-1.11	
			For Double Coil (Helix), Add	21.02	
32 31 13 13-0706	LF		24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	15.39	0.77
			For >500 To 1,500, Deduct	-1.22	
			For >1,500 To 5,000, Deduct	-2.43	
			For >5,000, Deduct	-3.32	
			For Ground Installation, Deduct	-0.62	
			For Double Coil (Helix), Add	14.16	
32 31 13 13-0707	LF		24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	23.28	0.77
			For >500 To 1,500, Deduct	-1.84	
			For >1,500 To 5,000, Deduct	-3.68	
			For >5,000, Deduct	-5.03	
			For Ground Installation, Deduct	-0.92	
			For Double Coil (Helix), Add	21.44	
32 31 13 13-0708	LF		24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	30.75	0.77
			For >500 To 1,500, Deduct	-2.43	
			For >1,500 To 5,000, Deduct	-4.86	
			For >5,000, Deduct	-6.64	
			For Ground Installation, Deduct	-1.22	
			For Double Coil (Helix), Add	28.31	
32 31 13 13-0709	LF		30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	52.83	0.77
			For >500 To 1,500, Deduct	-4.03	
			For >1,500 To 5,000, Deduct	-8.06	
			For >5,000, Deduct	-10.84	
			For Ground Installation, Deduct	-0.69	
			For Double Coil (Helix), Add	51.45	
32 31 13 13-0710	LF		30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	80.01	0.77
			For >500 To 1,500, Deduct	-6.10	
			For >1,500 To 5,000, Deduct	-12.21	
			For >5,000, Deduct	-16.42	
			For Ground Installation, Deduct	-1.04	
			For Double Coil (Helix), Add	77.94	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0711	LF	30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	105.67	0.77
		For >500 To 1,500, Deduct	-8.06	
		For >1,500 To 5,000, Deduct	-16.13	
		For >5,000, Deduct	-21.69	
		For Ground Installation, Deduct	-1.38	
		For Double Coil (Helix), Add	102.91	
32 31 13 13-0712		Grounding For Gates (32 31 13 13-0683)		
		Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0713	OPNG	Grounding For Gates.....	504.36	
		Note: Per opening		
32 31 13 13-0714		Coiled Spring Reinforcing Wire (32 31 13 13-0683)		
32 31 13 13-0715		Galvanized Steel (32 31 13 13-0714)		
32 31 13 13-0716	LF	7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring	1.33	0.55
32 31 13 13-0717		Vinyl Coated Steel (32 31 13 13-0714)		
32 31 13 13-0718	LF	9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	1.33	0.55
32 31 13 13-0719		Bending Of Fabric Around Pipe Railings (32 31 13 13-0683)		
		Note: Only where specified.		
32 31 13 13-0720	LF	Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.72	
32 31 13 13-0721	LF	Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.50	
32 31 13 13-0722		Mounting Plate With Anchors Or Bolts (32 31 13 13-0683)		
		Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0723	EA	Mounting Plate For 1-5/8" Diameter Post	49.41	
32 31 13 13-0724	EA	Mounting Plate For 2" Diameter Post.....	50.23	
32 31 13 13-0725	EA	Mounting Plate For 2-1/2" Diameter Post	51.64	
32 31 13 13-0726	EA	Mounting Plate For 3" Diameter Post.....	62.30	
32 31 13 13-0727	EA	Mounting Plate For 4" Diameter Post.....	71.69	
32 31 13 13-0728	EA	Mounting Plate For 6-5/8" Diameter Post	83.15	
32 31 13 13-0729	EA	Mounting Plate For 8-5/8" Diameter Post	98.12	
32 31 13 13-0730		Tension Bar (32 31 13 13-0683)		
32 31 13 13-0731	EA	3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	19.27	
32 31 13 13-0732	EA	3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	20.54	
32 31 13 13-0733	EA	4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	25.77	
32 31 13 13-0734	EA	5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	30.01	
32 31 13 13-0735	EA	6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	35.73	
32 31 13 13-0736	EA	7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	41.69	
32 31 13 13-0737	EA	8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	47.21	
32 31 13 13-0738	EA	9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	57.02	
32 31 13 13-0739	EA	10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	68.31	
32 31 13 13-0740		Truss Rods (32 31 13 13-0683)		
32 31 13 13-0741	LF	3/8" Diameter Truss Rods.....	2.37	0.60
32 31 13 13-0742		Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13 13-0743		Fence And Gate Parts Replacement (32 31 13 13-0742)		
32 31 13 13-0744	EA	Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement	142.46	
32 31 13 13-0745	EA	Sliding Gate Roller Assembly Replacement	139.07	
32 31 13 13-0746	EA	Rod And Lock Gate Keeper Replacement	142.15	
32 31 13 13-0747	EA	Galvanized Gate Holdback Replacement	30.65	
32 31 13 13-0748	LF	3/8" Cross Bracing Rod Replacement	1.80	
32 31 13 13-0749	LF	1-5/8" Diagonal Pipe Bracing Replacement.....	2.84	
32 31 13 13-0750	EA	2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	28.56	
32 31 13 13-0751	EA	2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	32.67	
32 31 13 13-0752	EA	3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	36.89	
32 31 13 13-0753	EA	6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	54.69	
32 31 13 13-0754	EA	8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	94.81	
32 31 13 13-0755	EA	2-1/2" x 2" Off Set Gate Hinge Replacement.....	29.04	
32 31 13 13-0756	EA	3" x 2" Off Set Gate Hinge Replacement	30.30	
32 31 13 13-0757	EA	4" x 2" Off Set Gate Hinge Replacement	32.31	
32 31 13 13-0758	EA	6-5/8" x 2" Off Set Gate Hinge Replacement	53.34	
32 31 13 13-0759	EA	8-5/8" x 2" Off Set Gate Hinge Replacement	84.53	
32 31 13 13-0760	EA	1-5/8" Aluminum Die-Cast Post Cap Replacement.....	6.64	
32 31 13 13-0761	EA	2" Aluminum Die-Cast Post Cap Replacement	7.30	
32 31 13 13-0762	EA	2-1/2" Aluminum Die-Cast Post Cap Replacement.....	8.66	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0763 EA 3" Aluminum Die-Cast Post Cap Replacement.....	10.20	
32 31 13 13-0764 EA 2" Galvanized Post Cap Replacement.....	7.07	
32 31 13 13-0765 EA 2-1/2" Galvanized Post Cap Replacement.....	7.65	
32 31 13 13-0766 EA 3" Galvanized Post Cap Replacement.....	8.77	
32 31 13 13-0767 EA 4" Galvanized Post Cap Replacement.....	13.18	
32 31 13 13-0768 EA 6-5/8" Galvanized Post Cap Replacement.....	25.19	
32 31 13 13-0769 EA 8-5/8" Galvanized Post Cap Replacement.....	41.53	
32 31 13 13-0770 EA 1-5/8" Boulevard Clamp Replacement.....	11.74	
32 31 13 13-0771 EA 2" Boulevard Clamp Replacement.....	14.31	
32 31 13 13-0772 EA 2-1/2" Boulevard Clamp Replacement.....	16.80	
32 31 13 13-0773 EA 3" Boulevard Clamp Replacement.....	20.38	
32 31 13 13-0774 EA 1-5/8" Gate Brace Or End Rail Clamp Replacement.....	11.49	
32 31 13 13-0775 EA 2" Gate Brace Or End Rail Clamp Replacement.....	13.98	
32 31 13 13-0776 EA 2-1/2" Gate Brace Or End Rail Clamp Replacement.....	16.46	
32 31 13 13-0777 EA 3" Gate Brace Or End Rail Clamp Replacement.....	20.02	
32 31 13 13-0778 EA 1-3/8" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	12.12	
32 31 13 13-0779 EA 1-5/8" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	12.23	
32 31 13 13-0780 EA 2" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	12.52	
32 31 13 13-0781 EA 2-1/2" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	12.39	
32 31 13 13-0782 EA 3" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	12.61	
32 31 13 13-0783 EA 3-1/2" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	12.78	
32 31 13 13-0784 EA 4" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	13.30	
32 31 13 13-0785 EA 6-5/8" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	17.07	
32 31 13 13-0786 Removal And Reinstallation Of Chain Link Fences (32 31 13 13) Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work. See CSI section 32 31 13 13-0001 for new post holes where required, 32 31 13 13-0058 for new fence posts where required.		
32 31 13 13-0787 LF Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	22.14	
32 31 13 13-0788 LF Removal And Reinstallation Of Chain Link Fence 6' To 12' Height.....	33.21	
32 31 13 13-0789 Ballfield Fencing (32 31 13 13) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 13-0790 Concrete Bases For Ballfield Poles, Cast In Place (32 31 13 13-0789) Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill.		
32 31 13 13-0791 VLF 2-1/2" Diameter Concrete Base For Ballfield Poles.....	145.33	
32 31 13 13-0792 VLF 3" Diameter Concrete Base For Ballfield Poles.....	171.25	
32 31 13 13-0793 VLF 3-1/2" Diameter Concrete Base For Ballfield Poles.....	214.98	
32 31 13 13-0794 VLF 4" Diameter Concrete Base For Ballfield Poles.....	253.88	
32 31 13 13-0795 Ballfield Poles (32 31 13 13-0789)		
32 31 13 13-0796 EA 20' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting..... Note: 10' above grade	8,621.89	756.81
32 31 13 13-0797 EA 25' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting..... Note: 15' above grade	10,695.74	946.02
32 31 13 13-0798 EA 30' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting..... Note: 20' above grade	12,296.17	1,135.21
32 31 13 13-0799 EA 40' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting..... Note: 30' above grade	16,515.56	1,324.42
32 31 13 13-0800 EA 50' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting..... Note: 40' above grade	22,113.22	1,513.62
32 31 13 13-0801 EA 60' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting..... Note: 50' above grade	24,711.80	1,702.82
32 31 13 13-0802 Ballfield Nylon Netting (32 31 13 13-0789) Note: Excludes fastening clips and cabling See CSI section 05 15 00 00-0000 for cabling and accessories.		
32 31 13 13-0803 LF 10' High, #18 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	1.98	
32 31 13 13-0804 LF 10' High, #21 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.03	
32 31 13 13-0805 LF 10' High, #36 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.26	
32 31 13 13-0806 LF 10' High, #42 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.54	
32 31 13 13-0807 LF 10' High, #48 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.82	
32 31 13 13-0808 LF 10' High, #60 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	3.74	
32 31 13 13-0809 LF 10' High, #72 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	4.22	
32 31 13 13-0810 LF 10' High, #96 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	5.49	
32 31 13 13-0811 Ballfield Chainlink Netting (32 31 13 13-0789) Note: Excludes fastening clips and cabling See CSI section 05 15 00 00-0000 for cabling and accessories.		
32 31 13 13-0812 SF #9 Gauge Chain Link Fabric, 2" Mesh For Ballfield Netting.....	4.25	1.42
For 13 Gauge Fabric, Deduct	-0.63	
For 11 Gauge Fabric, Deduct	-0.35	
For 6 Gauge Fabric, Add	1.13	
For 1" Mesh Fabric, Add	1.06	
For 1-3/4" Mesh Fabric, Add	0.42	
For 2-1/8" Mesh Fabric, Deduct	-0.21	
For 2-3/8" Mesh Fabric, Deduct	-0.28	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0813	Ballfield Netting Accessories (32 31 13 13-0789)			
32 31 13 13-0814	EA	Sliding Clip For Ballfield Netting.....	9.74	
32 31 13 13-0815	EA	1/4" Utility Spring Swing Clip For Ballfield Netting.....	4.39	
32 31 13 13-0816	EA	5/16" Utility Spring Swing Clip For Ballfield Netting.....	4.60	
32 31 13 13-0817	EA	3/8" Utility Spring Swing Clip For Ballfield Netting.....	4.92	
32 31 13 33	Chain Link Backstops (32 31 13)			
32 31 13 33-0001	Regulation Baseball Backstop (32 31 13 33)			
	See CSI section 32 31 13 13-0001 for auguring holes and concrete.			
32 31 13 33-0002	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized.....	14,218.13	2,176.92
32 31 13 33-0003	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized.....	20,558.73	2,902.56
32 31 13 33-0004	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized.....	26,265.70	3,386.32
32 31 13 33-0005	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	20,139.02	2,176.92
32 31 13 33-0006	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	29,418.26	2,902.56
32 31 13 33-0007	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	37,957.22	3,386.32
32 31 13 33-0008	SF	2" Thick Polyethylene Foam, 18 Oz Vinyl Cover, Padding Installed On Chain Link Backstop.....	15.39	
32 31 13 33-0009	SF	3" Thick Polyethylene Foam, 18 Oz Vinyl Cover, Padding Installed On Chain Link Backstop.....	18.39	
32 31 13 33-0010	Regulation Softball Backstop (32 31 13 33)			
	See CSI section 32 31 13 13-0001 for auguring holes and concrete.			
32 31 13 33-0011	14' High Softball Backstop (32 31 13 33-0010)			
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.			
32 31 13 33-0012	EA	14' Softball Backstop, Galvanized Regulation.....	12,219.27	2,313.71
32 31 13 33-0013	EA	14' Softball Backstop, Vinyl Coated Regulation.....	16,465.82	2,313.71
32 31 13 33-0014	18' High Softball Backstop (32 31 13 33-0010)			
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.			
32 31 13 33-0015	EA	18' Softball Backstop, Galvanized Regulation.....	14,277.64	2,572.21
32 31 13 33-0016	EA	18' Softball Backstop Vinyl Coated Regulation.....	19,414.60	2,572.21
32 31 13 33-0017	20' High Softball Backstop (32 31 13 33-0010)			
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.			
32 31 13 33-0018	EA	20' Softball Backstop, Galvanized Regulation.....	16,186.53	2,712.03
32 31 13 33-0019	EA	20' Softball Backstop, Vinyl Coated Regulation.....	22,282.46	2,712.03
32 31 13 33-0020	22' High Softball Backstop (32 31 13 33-0010)			
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.			
32 31 13 33-0021	EA	22' Softball Backstop, Galvanized Regulation.....	18,665.01	2,793.85
32 31 13 33-0022	EA	22' Softball Backstop, Vinyl Coated Regulation.....	25,993.75	2,793.85
32 31 13 33-0023	24' High Softball Backstop (32 31 13 33-0010)			
	Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.			
32 31 13 33-0024	EA	24' Softball Backstop, Galvanized Regulation.....	22,240.44	3,192.97
32 31 13 33-0025	EA	24' Softball Backstop, Vinyl Coated Regulation.....	31,349.99	3,192.97
32 31 16	Welded Wire Fences and Gates (32 31)			
32 31 16 00-0001	Welded Wire Fence (32 31 16)			
32 31 16 00-0002	12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001)			
	Note: Posts 5' on center.			
32 31 16 00-0003	LF	3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	10.79	1.93
32 31 16 00-0004	LF	5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	11.67	1.93
32 31 16 00-0005	14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001)			
	Note: Posts 5' on center.			
32 31 16 00-0006	LF	3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	10.61	1.93
32 31 16 00-0007	LF	5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	11.39	1.93
32 31 19	Decorative Metal Fences and Gates (32 31)			
	See CSI section 32 31 13 13-0001 for drilling and grouting.			
32 31 19 00-0001	Wrought Iron Fence (32 31 19)			
	Note: Factory primed.			



Exterior Improvements			32
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MINOR		CSI	UOM	DESCRIPTION	TOTAL DIRECT	UNIT COST	DEMOLITION	UNIT COST
32 31 19 00-0002 Wrought Iron Fence, 3/4" Verticals At >3" To 4" On Center (32 31 19 00-0001)								
Note: Factory primed 8 foot long panel sections.								
32 31 19 00-0003	LF			3' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	60.64		12.18	
				For 6' Length Fence Panels With Posts Set 6' O.C., Add	10.80			
				For Verticals Up To 2" On Center, Add	11.61			
				For Verticals >2" To 2-1/2" On Center, Add	7.26			
				For Verticals >2-1/2" To 3" On Center, Add	2.90			
				For Verticals >4" To 6" On Center, Deduct	-3.27			
				For Pickets Extending Above Top Rail, Add	5.75			
				For Curved Pickets Extending Above Top Rail, Add	13.62			
32 31 19 00-0004	LF			4' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	78.00		15.50	
				For 6' Length Fence Panels With Posts Set 6' O.C., Add	13.79			
				For Verticals Up To 2" On Center, Add	15.39			
				For Verticals >2" To 2-1/2" On Center, Add	9.62			
				For Verticals >2-1/2" To 3" On Center, Add	3.85			
				For Verticals >4" To 6" On Center, Deduct	-4.33			
				For Pickets Extending Above Top Rail, Add	7.51			
				For Curved Pickets Extending Above Top Rail, Add	17.88			
32 31 19 00-0005	LF			5' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	93.19		16.16	
				For 6' Length Fence Panels With Posts Set 6' O.C., Add	16.26			
				For Verticals Up To 2" On Center, Add	19.41			
				For Verticals >2" To 2-1/2" On Center, Add	12.13			
				For Verticals >2-1/2" To 3" On Center, Add	4.85			
				For Verticals >4" To 6" On Center, Deduct	-5.46			
				For Pickets Extending Above Top Rail, Add	9.21			
				For Curved Pickets Extending Above Top Rail, Add	22.15			
32 31 19 00-0006	LF			6' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	112.89		19.48	
				For 6' Length Fence Panels With Posts Set 6' O.C., Add	19.67			
				For Verticals Up To 2" On Center, Add	23.63			
				For Verticals >2" To 2-1/2" On Center, Add	14.77			
				For Verticals >2-1/2" To 3" On Center, Add	5.91			
				For Verticals >4" To 6" On Center, Deduct	-6.65			
				For Pickets Extending Above Top Rail, Add	11.18			
				For Curved Pickets Extending Above Top Rail, Add	26.93			
32 31 19 00-0007	LF			7' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	133.00		20.61	
				For 6' Length Fence Panels With Posts Set 6' O.C., Add	22.84			
				For Verticals Up To 2" On Center, Add	29.37			
				For Verticals >2" To 2-1/2" On Center, Add	18.35			
				For Verticals >2-1/2" To 3" On Center, Add	7.34			
				For Verticals >4" To 6" On Center, Deduct	-8.26			
				For Pickets Extending Above Top Rail, Add	13.53			
				For Curved Pickets Extending Above Top Rail, Add	32.92			
32 31 19 00-0008	LF			8' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	153.10		21.70	
				For 6' Length Fence Panels With Posts Set 6' O.C., Add	26.00			
				For Verticals Up To 2" On Center, Add	35.11			
				For Verticals >2" To 2-1/2" On Center, Add	21.94			
				For Verticals >2-1/2" To 3" On Center, Add	8.78			
				For Verticals >4" To 6" On Center, Deduct	-9.87			
				For Pickets Extending Above Top Rail, Add	15.88			
				For Curved Pickets Extending Above Top Rail, Add	38.91			
32 31 19 00-0009	LF			10' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	186.89		24.35	
				For 6' Length Fence Panels With Posts Set 6' O.C., Add	31.44			
				For Verticals Up To 2" On Center, Add	44.22			
				For Verticals >2" To 2-1/2" On Center, Add	27.64			
				For Verticals >2-1/2" To 3" On Center, Add	11.06			
				For Verticals >4" To 6" On Center, Deduct	-12.44			
				For Pickets Extending Above Top Rail, Add	19.71			
				For Curved Pickets Extending Above Top Rail, Add	48.56			
32 31 19 00-0010	LF			12' High Wrought Iron Fence, 3/4" Square Solid Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	221.28		27.67	
				For 6' Length Fence Panels With Posts Set 6' O.C., Add	37.07			
				For Verticals Up To 2" On Center, Add	53.10			
				For Verticals >2" To 2-1/2" On Center, Add	33.19			
				For Verticals >2-1/2" To 3" On Center, Add	13.27			
				For Verticals >4" To 6" On Center, Deduct	-14.93			
				For Pickets Extending Above Top Rail, Add	23.51			
				For Curved Pickets Extending Above Top Rail, Add	58.08			
32 31 19 00-0011 Wrought Iron Gates (32 31 19 00-0001)								
Note: Factory primed.								
32 31 19 00-0012 Single Wrought Iron Gates (32 31 19 00-0011)								
Note: Factory primed.								
32 31 19 00-0013	LF			3' Single Wrought Iron Gate, Hardware And Associated Trim	74.88		14.84	
32 31 19 00-0014	LF			4' Single Wrought Iron Gate, Hardware And Associated Trim	98.28		18.37	
32 31 19 00-0015	LF			5' Single Wrought Iron Gate, Hardware And Associated Trim	120.36		22.14	
32 31 19 00-0016	LF			6' Single Wrought Iron Gate, Hardware And Associated Trim	146.38		26.57	
32 31 19 00-0017	LF			8' Single Wrought Iron Gate, Hardware And Associated Trim	198.12		29.44	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0018	LF	10' Single Wrought Iron Gate, Hardware And Associated Trim	240.77	32.54
32 31 19 00-0019	LF	12' Single Wrought Iron Gate, Hardware And Associated Trim	282.57	36.97
32 31 19 00-0020		Double Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.		
32 31 19 00-0021	LF	3' Double Wrought Iron Gate, Hardware And Associated Trim	91.71	13.29
32 31 19 00-0022	LF	4' Double Wrought Iron Gate, Hardware And Associated Trim	120.54	16.60
32 31 19 00-0023	LF	5' Double Wrought Iron Gate, Hardware And Associated Trim	147.04	19.92
32 31 19 00-0024	LF	6' Double Wrought Iron Gate, Hardware And Associated Trim	178.37	23.91
32 31 19 00-0025	LF	8' Double Wrought Iron Gate, Hardware And Associated Trim	242.52	26.57
32 31 19 00-0026	LF	10' Double Wrought Iron Gate, Hardware And Associated Trim	295.19	29.22
32 31 19 00-0027	LF	12' Double Wrought Iron Gate, Hardware And Associated Trim	347.01	33.21
32 31 19 00-0028		Repair Or Replace Wrought Iron Fence (32 31 19 00-0001)		
32 31 19 00-0029	LF	Removal And Replacement Of Wrought Iron Picket	22.46	
32 31 19 00-0030	LF	Removal And Replacement Of Wrought Iron Post	33.84	
32 31 19 00-0031	EA	Straighten Wrought Iron Post	88.55	
32 31 19 00-0032		Steel Tube Fence, Powder Coated (32 31 19) Note: Pickets are 3/4" square x 16 gauge.		
32 31 19 00-0033		Steel Tube Fence, With Two 1" Square, 16 Gauge Rails (32 31 19 00-0032) Note: 6 foot long panel sections.		
32 31 19 00-0034	LF	3' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	84.62	12.18
		For Verticals Up To 2" On Center, Add	12.15	
		For Verticals >2" To 2-1/2" On Center, Add	6.08	
		For Verticals >3" To 4" On Center, Deduct	-6.08	
		For Verticals >4" To 6" On Center, Deduct	-12.15	
		For Pickets Extending Above Top Rail, Add	6.36	
		For Curved Pickets Extending Above Top Rail, Add	11.21	
		For Solid Pickets, Add	17.25	
		For Aluminum With Satin Finish, Add	14.65	
		For Third Rail, Add	4.56	
		For 1" Square x 14 Gauge Pickets, Add	15.19	
		For 3" Square Posts, Add	7.60	
32 31 19 00-0035	LF	3'-6" Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	90.49	13.02
		For Verticals Up To 2" On Center, Add	12.89	
		For Verticals >2" To 2-1/2" On Center, Add	6.45	
		For Verticals >3" To 4" On Center, Deduct	-6.45	
		For Verticals >4" To 6" On Center, Deduct	-12.89	
		For Pickets Extending Above Top Rail, Add	6.78	
		For Curved Pickets Extending Above Top Rail, Add	11.94	
		For Solid Pickets, Add	18.41	
		For Aluminum With Satin Finish, Add	15.43	
		For Third Rail, Add	4.83	
		For 1" Square x 14 Gauge Pickets, Add	16.12	
		For 3" Square Posts, Add	8.06	
32 31 19 00-0036	LF	4' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	95.70	14.39
		For Verticals Up To 2" On Center, Add	13.50	
		For Verticals >2" To 2-1/2" On Center, Add	6.75	
		For Verticals >3" To 4" On Center, Deduct	-6.75	
		For Verticals >4" To 6" On Center, Deduct	-13.50	
		For Pickets Extending Above Top Rail, Add	7.15	
		For Curved Pickets Extending Above Top Rail, Add	12.58	
		For Solid Pickets, Add	19.42	
		For Aluminum With Satin Finish, Add	16.02	
		For Third Rail, Add	5.06	
		For 1" Square x 14 Gauge Pickets, Add	16.87	
		For 3" Square Posts, Add	8.44	
32 31 19 00-0037	LF	5' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	101.72	16.16
		For Verticals Up To 2" On Center, Add	13.84	
		For Verticals >2" To 2-1/2" On Center, Add	6.92	
		For Verticals >3" To 4" On Center, Deduct	-6.92	
		For Verticals >4" To 6" On Center, Deduct	-13.84	
		For Pickets Extending Above Top Rail, Add	7.51	
		For Curved Pickets Extending Above Top Rail, Add	13.16	
		For Solid Pickets, Add	20.45	
		For Aluminum With Satin Finish, Add	15.87	
		For Third Rail, Add	5.19	
		For 1" Square x 14 Gauge Pickets, Add	17.30	
		For 3" Square Posts, Add	8.65	
32 31 19 00-0038	LF	6' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	118.07	18.27
		For Verticals Up To 2" On Center, Add	16.31	
		For Verticals >2" To 2-1/2" On Center, Add	8.15	
		For Verticals >3" To 4" On Center, Deduct	-8.15	
		For Verticals >4" To 6" On Center, Deduct	-16.31	
		For Pickets Extending Above Top Rail, Add	8.76	
		For Curved Pickets Extending Above Top Rail, Add	15.38	
		For Solid Pickets, Add	23.83	
		For Aluminum With Satin Finish, Add	18.98	
		For Third Rail, Add	6.12	
		For 1" Square x 14 Gauge Pickets, Add	20.39	
		For 3" Square Posts, Add	10.19	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0039	LF	7' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	135.37	19.92	
		For Verticals Up To 2" On Center, Add	19.11		
		For Verticals >2" To 2-1/2" On Center, Add	9.55		
		For Verticals >3" To 4" On Center, Deduct	-9.55		
		For Verticals >4" To 6" On Center, Deduct	-19.11		
		For Pickets Extending Above Top Rail, Add	10.11		
		For Curved Pickets Extending Above Top Rail, Add	17.80		
		For Solid Pickets, Add	27.47		
		For Aluminum With Satin Finish, Add	22.68		
		For Third Rail, Add	7.16		
		For 1" Square x 14 Gauge Pickets, Add	23.88		
		For 4" Square Posts, Add	33.44		
32 31 19 00-0040	LF	8' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	152.91	21.70	
		For Verticals Up To 2" On Center, Add	21.90		
		For Verticals >2" To 2-1/2" On Center, Add	10.95		
		For Verticals >3" To 4" On Center, Deduct	-10.95		
		For Verticals >4" To 6" On Center, Deduct	-21.90		
		For Pickets Extending Above Top Rail, Add	11.48		
		For Curved Pickets Extending Above Top Rail, Add	20.23		
		For Solid Pickets, Add	31.15		
		For Aluminum With Satin Finish, Add	26.35		
		For Third Rail, Add	8.21		
		For 1" Square x 14 Gauge Pickets, Add	27.38		
		For 4" Square Posts, Add	38.33		
32 31 19 00-0041	LF	9' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	178.18	23.25	
		For Verticals Up To 2" On Center, Add	26.34		
		For Verticals >2" To 2-1/2" On Center, Add	13.17		
		For Verticals >3" To 4" On Center, Deduct	-13.17		
		For Verticals >4" To 6" On Center, Deduct	-26.34		
		For Pickets Extending Above Top Rail, Add	13.52		
		For Curved Pickets Extending Above Top Rail, Add	23.90		
		For Solid Pickets, Add	36.60		
		For Aluminum With Satin Finish, Add	32.53		
		For Third Rail, Add	9.88		
		For 1" Square x 14 Gauge Pickets, Add	32.92		
		For 4" Square Posts, Add	46.09		
32 31 19 00-0042	LF	10' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	203.68	24.90	
		For Verticals Up To 2" On Center, Add	30.77		
		For Verticals >2" To 2-1/2" On Center, Add	15.39		
		For Verticals >3" To 4" On Center, Deduct	-15.39		
		For Verticals >4" To 6" On Center, Deduct	-30.77		
		For Pickets Extending Above Top Rail, Add	15.57		
		For Curved Pickets Extending Above Top Rail, Add	27.59		
		For Solid Pickets, Add	42.09		
		For Aluminum With Satin Finish, Add	38.69		
		For Third Rail, Add	11.54		
		For 1" Square x 14 Gauge Pickets, Add	38.47		
		For 6" Square Posts, Add	53.85		
32 31 19 00-0043	LF	12' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	240.25	27.67	
		For Verticals Up To 2" On Center, Add	36.98		
		For Verticals >2" To 2-1/2" On Center, Add	18.49		
		For Verticals >3" To 4" On Center, Deduct	-18.49		
		For Verticals >4" To 6" On Center, Deduct	-36.98		
		For Pickets Extending Above Top Rail, Add	18.48		
		For Curved Pickets Extending Above Top Rail, Add	32.81		
		For Solid Pickets, Add	49.91		
		For Aluminum With Satin Finish, Add	47.17		
		For Third Rail, Add	13.87		
		For 1" Square x 14 Gauge Pickets, Add	46.23		
		For 6" Square Posts, Add	64.72		
32 31 19 00-0044	LF	14' Steel Tube Fence, 3/4" Square, 16 GA, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	257.30	29.88	
		For Verticals Up To 2" On Center, Add	39.51		
		For Verticals >2" To 2-1/2" On Center, Add	19.75		
		For Verticals >3" To 4" On Center, Deduct	-19.75		
		For Verticals >4" To 6" On Center, Deduct	-39.51		
		For Pickets Extending Above Top Rail, Add	19.78		
		For Curved Pickets Extending Above Top Rail, Add	35.10		
		For Solid Pickets, Add	53.41		
		For Aluminum With Satin Finish, Add	50.29		
		For Third Rail, Add	14.81		
		For 1" Square x 14 Gauge Pickets, Add	49.38		
		For 6" Square Posts, Add	69.14		
32 31 19 00-0045		Steel Tube Swing Gates (32 31 19 00-0032)			
32 31 19 00-0046		3' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)			
32 31 19 00-0047	EA	3' Wide x 3' High Steel Tube Single Swing Gate	766.29	23.57	
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	167.10		
		For Aluminum With Satin Finish, Add	198.01		
		For Third Rail, Add	52.16		
		For 1" Square x 14 Gauge Pickets, Add	69.55		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0048	EA	3'-6" Wide x 3' High Steel Tube Single Swing Gate.....	852.54	24.68
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	186.26	
		For Aluminum With Satin Finish, Add	222.39	
		For Third Rail, Add	58.38	
		For 1" Square x 14 Gauge Pickets, Add	77.84	
32 31 19 00-0049	EA	4' Wide x 3' High Steel Tube Single Swing Gate	943.67	26.13
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	206.43	
		For Aluminum With Satin Finish, Add	247.74	
		For Third Rail, Add	64.88	
		For 1" Square x 14 Gauge Pickets, Add	86.51	
32 31 19 00-0050	EA	5' Wide x 3' High Steel Tube Single Swing Gate	992.55	28.01
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	217.01	
		For Aluminum With Satin Finish, Add	259.91	
		For Third Rail, Add	68.13	
		For 1" Square x 14 Gauge Pickets, Add	90.84	
32 31 19 00-0051	EA	6' Wide x 3' High Steel Tube Single Swing Gate	1,109.04	33.53
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	241.98	
		For Aluminum With Satin Finish, Add	287.38	
		For Third Rail, Add	75.62	
		For 1" Square x 14 Gauge Pickets, Add	100.83	
32 31 19 00-0052	EA	7' Wide x 3' High Steel Tube Single Swing Gate	1,180.30	39.07
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	256.77	
		For Aluminum With Satin Finish, Add	301.29	
		For Third Rail, Add	79.72	
		For 1" Square x 14 Gauge Pickets, Add	106.30	
32 31 19 00-0053	EA	8' Wide x 3' High Steel Tube Single Swing Gate	1,288.48	44.94
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	279.78	
		For Aluminum With Satin Finish, Add	325.78	
		For Third Rail, Add	86.51	
		For 1" Square x 14 Gauge Pickets, Add	115.34	
32 31 19 00-0054	EA	9' Wide x 3' High Steel Tube Single Swing Gate	1,382.35	50.47
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	299.66	
		For Aluminum With Satin Finish, Add	346.47	
		For Third Rail, Add	92.30	
		For 1" Square x 14 Gauge Pickets, Add	123.07	
32 31 19 00-0055	EA	10' Wide x 3' High Steel Tube Single Swing Gate	1,464.91	56.01
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	316.99	
		For Aluminum With Satin Finish, Add	363.77	
		For Third Rail, Add	97.25	
		For 1" Square x 14 Gauge Pickets, Add	129.67	
32 31 19 00-0056	EA	6' Wide x 3' High Steel Tube Double Swing Gate	1,602.13	47.16
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	349.85	
		For Aluminum With Satin Finish, Add	416.88	
		For Third Rail, Add	109.53	
		For 1" Square x 14 Gauge Pickets, Add	146.05	
32 31 19 00-0057	EA	7' Wide x 3' High Steel Tube Double Swing Gate	1,706.97	49.36
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	372.94	
		For Aluminum With Satin Finish, Add	445.35	
		For Third Rail, Add	116.90	
		For 1" Square x 14 Gauge Pickets, Add	155.87	
32 31 19 00-0058	EA	8' Wide x 3' High Steel Tube Double Swing Gate	1,887.32	52.36
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	412.86	
		For Aluminum With Satin Finish, Add	495.47	
		For Third Rail, Add	129.76	
		For 1" Square x 14 Gauge Pickets, Add	173.02	
32 31 19 00-0059	EA	9' Wide x 3' High Steel Tube Double Swing Gate	1,977.68	54.24
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	432.77	
		For Aluminum With Satin Finish, Add	520.08	
		For Third Rail, Add	136.12	
		For 1" Square x 14 Gauge Pickets, Add	181.50	
32 31 19 00-0060	EA	10' Wide x 3' High Steel Tube Double Swing Gate	2,051.06	56.01
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	448.87	
		For Aluminum With Satin Finish, Add	539.61	
		For Third Rail, Add	141.21	
		For 1" Square x 14 Gauge Pickets, Add	188.28	
32 31 19 00-0061	EA	12' Wide x 3' High Steel Tube Double Swing Gate	2,308.54	67.08
		Note: Includes mounting hardware and associated trim.		
		For Solid Pickets, Add	504.31	
		For Aluminum With Satin Finish, Add	601.91	
		For Third Rail, Add	158.03	
		For 1" Square x 14 Gauge Pickets, Add	210.71	



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0062	EA		14' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,530.22 551.70 653.47 172.17 229.56	78.15
32 31 19 00-0063	EA		16' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,716.42 590.94 693.39 183.48 244.63	89.99
32 31 19 00-0064	EA		18' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,872.14 623.48 725.16 192.66 256.89	100.95
32 31 19 00-0065	EA		20' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,999.58 649.67 748.45 199.73 266.31	112.02
32 31 19 00-0066			4' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0067	EA		3' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	885.14 193.55 231.92 60.78 81.04	22.14
32 31 19 00-0068	EA		3'-6" Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	957.63 209.66 252.42 66.01 88.02	25.79
32 31 19 00-0069	EA		4' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,032.90 226.18 272.52 71.24 94.99	27.67
32 31 19 00-0070	EA		5' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,094.98 239.73 288.65 75.48 100.64	29.44
32 31 19 00-0071	EA		6' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,180.54 257.65 306.35 80.57 107.43	35.42
32 31 19 00-0072	EA		7' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,296.25 282.36 333.09 87.92 117.23	41.29
32 31 19 00-0073	EA		8' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,455.32 316.82 372.84 98.52 131.36	47.16
32 31 19 00-0074	EA		9' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,610.61 350.43 411.46 108.84 145.12	53.13
32 31 19 00-0075	EA		10' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,758.36 382.35 447.81 118.59 158.13	59.00

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0076	EA		6' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,770.27 387.10 463.84 121.56 162.08	49.81
32 31 19 00-0077	EA		7' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,915.28 419.32 504.85 132.02 176.03	51.58
32 31 19 00-0078	EA		8' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,065.81 452.36 545.03 142.48 189.98	55.35
32 31 19 00-0079	EA		9' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,184.43 478.63 578.12 150.96 201.29	57.12
32 31 19 00-0080	EA		10' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,284.19 500.66 605.56 158.03 210.71	59.00
32 31 19 00-0081	EA		12' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,592.90 567.46 682.24 178.53 238.04	70.73
32 31 19 00-0082	EA		14' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,863.90 625.78 747.60 196.20 261.60	82.57
32 31 19 00-0083	EA		16' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,099.11 676.05 802.22 211.18 281.57	94.30
32 31 19 00-0084	EA		18' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,302.26 719.10 847.23 223.76 298.35	106.15
32 31 19 00-0085	EA		20' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,475.26 755.37 883.19 234.08 312.11	117.99
32 31 19 00-0086			5' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0087	EA		3' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	963.29 210.93 254.12 66.44 88.58	25.79
32 31 19 00-0088	EA		3'-6" Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,015.94 222.36 267.43 69.97 93.29	27.67
32 31 19 00-0089	EA		4' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,066.71 233.37 280.17 73.36 97.82	29.44



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32	31	19 00-0090	EA 5' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,140.09 249.46 299.69 78.45 104.60	31.33
32	31	19 00-0091	EA 6' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,239.95 270.52 321.18 84.53 112.71	37.63
32	31	19 00-0092	EA 7' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,371.85 298.79 352.28 93.01 124.01	43.83
32	31	19 00-0093	EA 8' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,555.75 338.67 398.48 105.31 140.41	50.47
32	31	19 00-0094	EA 9' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,734.76 377.54 443.72 117.32 156.43	56.78
32	31	19 00-0095	EA 10' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,910.00 415.55 487.83 129.05 172.07	62.99
32	31	19 00-0096	EA 6' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,895.81 417.24 512.86 132.87 177.16	43.50
32	31	19 00-0097	EA 7' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,008.86 441.13 537.46 139.80 186.40	50.69
32	31	19 00-0098	EA 8' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,123.13 465.19 561.87 146.72 195.63	58.33
32	31	19 00-0099	EA 9' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,279.52 498.83 599.48 156.90 209.20	65.63
32	31	19 00-0100	EA 10' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,417.07 528.23 631.43 165.67 220.89	72.83
32	31	19 00-0101	EA 12' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,751.17 601.66 721.25 188.99 251.98	81.02
32	31	19 00-0102	EA 14' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,051.92 667.41 799.97 209.63 279.50	89.88
32	31	19 00-0103	EA 16' Wide x 5' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,321.16 725.89 868.14 227.72 303.63	99.73

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0104	EA		18' Wide x 5' High Steel Tube Double Swing Gate	3,563.90	110.80
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	778.14	
			For Aluminum With Satin Finish, Add	926.72	
			For Third Rail, Add	243.55	
			For 1" Square x 14 Gauge Pickets, Add	324.73	
32 31 19 00-0105	EA		20' Wide x 5' High Steel Tube Double Swing Gate	3,780.15	123.20
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	824.14	
			For Aluminum With Satin Finish, Add	975.70	
			For Third Rail, Add	257.12	
			For 1" Square x 14 Gauge Pickets, Add	342.83	
32 31 19 00-0106 6' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)					
32 31 19 00-0107	EA		3' Wide x 6' High Steel Tube Single Swing Gate	1,003.08	28.33
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	219.30	
			For Aluminum With Satin Finish, Add	262.57	
			For Third Rail, Add	68.84	
			For 1" Square x 14 Gauge Pickets, Add	91.79	
32 31 19 00-0108	EA		3'-6" Wide x 6' High Steel Tube Single Swing Gate	1,054.63	29.88
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	230.57	
			For Aluminum With Satin Finish, Add	276.04	
			For Third Rail, Add	72.37	
			For 1" Square x 14 Gauge Pickets, Add	96.50	
32 31 19 00-0109	EA		4' Wide x 6' High Steel Tube Single Swing Gate	1,106.96	31.55
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	241.95	
			For Aluminum With Satin Finish, Add	289.39	
			For Third Rail, Add	75.91	
			For 1" Square x 14 Gauge Pickets, Add	101.21	
32 31 19 00-0110	EA		5' Wide x 6' High Steel Tube Single Swing Gate	1,171.25	33.53
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	255.98	
			For Aluminum With Satin Finish, Add	306.04	
			For Third Rail, Add	80.29	
			For 1" Square x 14 Gauge Pickets, Add	107.05	
32 31 19 00-0111	EA		6' Wide x 6' High Steel Tube Single Swing Gate	1,314.78	40.51
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	286.69	
			For Aluminum With Satin Finish, Add	339.64	
			For Third Rail, Add	89.48	
			For 1" Square x 14 Gauge Pickets, Add	119.30	
32 31 19 00-0112	EA		7' Wide x 6' High Steel Tube Single Swing Gate	1,467.72	47.60
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	319.53	
			For Aluminum With Satin Finish, Add	376.07	
			For Third Rail, Add	99.37	
			For 1" Square x 14 Gauge Pickets, Add	132.49	
32 31 19 00-0113	EA		8' Wide x 6' High Steel Tube Single Swing Gate	1,638.43	54.24
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	356.44	
			For Aluminum With Satin Finish, Add	418.31	
			For Third Rail, Add	110.68	
			For 1" Square x 14 Gauge Pickets, Add	147.57	
32 31 19 00-0114	EA		9' Wide x 6' High Steel Tube Single Swing Gate	1,802.71	61.21
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	391.83	
			For Aluminum With Satin Finish, Add	458.13	
			For Third Rail, Add	121.42	
			For 1" Square x 14 Gauge Pickets, Add	161.90	
32 31 19 00-0115	EA		10' Wide x 6' High Steel Tube Single Swing Gate	2,002.77	68.19
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	435.27	
			For Aluminum With Satin Finish, Add	508.68	
			For Third Rail, Add	134.85	
			For 1" Square x 14 Gauge Pickets, Add	179.80	
32 31 19 00-0116	EA		6' Wide x 6' High Steel Tube Double Swing Gate	1,969.63	46.94
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	433.12	
			For Aluminum With Satin Finish, Add	530.62	
			For Third Rail, Add	137.68	
			For 1" Square x 14 Gauge Pickets, Add	183.57	
32 31 19 00-0117	EA		7' Wide x 6' High Steel Tube Double Swing Gate	2,087.00	55.01
			Note: Includes mounting hardware and associated trim.		
			For Solid Pickets, Add	457.79	
			For Aluminum With Satin Finish, Add	555.42	
			For Third Rail, Add	144.74	
			For 1" Square x 14 Gauge Pickets, Add	192.99	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0118	EA		8' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,203.15 482.29 580.40 151.81 202.42	62.65
32 31 19 00-0119	EA		9' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,343.14 512.05 611.99 160.58 214.10	70.73
32 31 19 00-0120	EA		10' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,562.28 559.62 667.32 175.28 233.70	78.81
32 31 19 00-0121	EA		12' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,004.37 657.17 788.44 206.52 275.36	87.77
32 31 19 00-0122	EA		14' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,146.67 687.00 817.98 215.00 286.66	98.07
32 31 19 00-0123	EA		16' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,455.38 754.08 896.35 235.78 314.37	109.14
32 31 19 00-0124	EA		18' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,739.47 815.36 965.69 254.43 339.25	121.42
32 31 19 00-0125	EA		20' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	4,003.93 871.85 1,026.94 271.26 361.67	135.48
32 31 19 00-0126			7' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0127	EA		3' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,062.82 232.22 277.36 72.80 97.06	30.66
32 31 19 00-0128	EA		3'-6" Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,116.69 243.98 291.33 76.47 101.96	32.32
32 31 19 00-0129	EA		4' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,170.79 255.77 305.26 80.15 106.86	33.98
32 31 19 00-0130	EA		5' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,225.00 267.57 319.18 83.82 111.76	35.75
32 31 19 00-0131	EA		6' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,417.86 309.22 366.58 96.54 128.73	43.50

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0132	EA	7' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,594.55	50.91
		For Solid Pickets, Add	347.32	
		For Aluminum With Satin Finish, Add	409.63	
		For Third Rail, Add	108.14	
		For 1" Square x 14 Gauge Pickets, Add	144.18	
32 31 19 00-0133	EA	8' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,723.34	58.55
		For Solid Pickets, Add	374.55	
		For Aluminum With Satin Finish, Add	437.80	
		For Third Rail, Add	116.05	
		For 1" Square x 14 Gauge Pickets, Add	154.73	
32 31 19 00-0134	EA	9' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,869.85	65.97
		For Solid Pickets, Add	405.86	
		For Aluminum With Satin Finish, Add	471.80	
		For Third Rail, Add	125.38	
		For 1" Square x 14 Gauge Pickets, Add	167.17	
32 31 19 00-0135	EA	10' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	2,049.53	73.72
		For Solid Pickets, Add	444.54	
		For Aluminum With Satin Finish, Add	515.24	
		For Third Rail, Add	137.11	
		For 1" Square x 14 Gauge Pickets, Add	182.82	
32 31 19 00-0136	EA	6' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,084.92	50.25
		For Solid Pickets, Add	458.33	
		For Aluminum With Satin Finish, Add	560.82	
		For Third Rail, Add	145.59	
		For 1" Square x 14 Gauge Pickets, Add	194.12	
32 31 19 00-0137	EA	7' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,207.27	58.78
		For Solid Pickets, Add	484.03	
		For Aluminum With Satin Finish, Add	586.57	
		For Third Rail, Add	152.94	
		For 1" Square x 14 Gauge Pickets, Add	203.93	
32 31 19 00-0138	EA	8' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,330.84	67.74
		For Solid Pickets, Add	509.92	
		For Aluminum With Satin Finish, Add	612.14	
		For Third Rail, Add	160.29	
		For 1" Square x 14 Gauge Pickets, Add	213.73	
32 31 19 00-0139	EA	9' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,455.08	76.26
		For Solid Pickets, Add	536.05	
		For Aluminum With Satin Finish, Add	638.45	
		For Third Rail, Add	167.79	
		For 1" Square x 14 Gauge Pickets, Add	223.71	
32 31 19 00-0140	EA	10' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,765.24	85.23
		For Solid Pickets, Add	603.92	
		For Aluminum With Satin Finish, Add	719.99	
		For Third Rail, Add	189.13	
		For 1" Square x 14 Gauge Pickets, Add	252.17	
32 31 19 00-0141	EA	12' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,341.70	95.08
		For Solid Pickets, Add	731.52	
		For Aluminum With Satin Finish, Add	880.33	
		For Third Rail, Add	230.26	
		For 1" Square x 14 Gauge Pickets, Add	307.02	
32 31 19 00-0142	EA	14' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,306.73	106.60
		For Solid Pickets, Add	721.18	
		For Aluminum With Satin Finish, Add	855.04	
		For Third Rail, Add	225.17	
		For 1" Square x 14 Gauge Pickets, Add	300.23	
32 31 19 00-0143	EA	16' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,583.27	118.88
		For Solid Pickets, Add	780.76	
		For Aluminum With Satin Finish, Add	922.12	
		For Third Rail, Add	243.27	
		For 1" Square x 14 Gauge Pickets, Add	324.36	
32 31 19 00-0144	EA	18' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,913.70	132.94
		For Solid Pickets, Add	852.09	
		For Aluminum With Satin Finish, Add	1,003.16	
		For Third Rail, Add	265.04	
		For 1" Square x 14 Gauge Pickets, Add	353.38	
32 31 19 00-0145	EA	20' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	4,132.80	148.32
		For Solid Pickets, Add	898.10	
		For Aluminum With Satin Finish, Add	1,049.17	
		For Third Rail, Add	278.18	
		For 1" Square x 14 Gauge Pickets, Add	370.91	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0146			8' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0147	EA		3' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,155.05	33.21
			For Solid Pickets, Add	252.41	
			For Aluminum With Satin Finish, Add	301.69	
			For Third Rail, Add	79.16	
			For 1" Square x 14 Gauge Pickets, Add	105.54	
32 31 19 00-0148	EA		3'-6" Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,211.47	34.98
			For Solid Pickets, Add	264.69	
			For Aluminum With Satin Finish, Add	316.12	
			For Third Rail, Add	82.97	
			For 1" Square x 14 Gauge Pickets, Add	110.63	
32 31 19 00-0149	EA		4' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,271.67	36.86
			For Solid Pickets, Add	277.82	
			For Aluminum With Satin Finish, Add	331.69	
			For Third Rail, Add	87.07	
			For 1" Square x 14 Gauge Pickets, Add	116.10	
32 31 19 00-0150	EA		5' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,325.86	41.07
			For Solid Pickets, Add	289.06	
			For Aluminum With Satin Finish, Add	342.22	
			For Third Rail, Add	90.18	
			For 1" Square x 14 Gauge Pickets, Add	120.24	
32 31 19 00-0151	EA		6' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,568.06	46.49
			For Solid Pickets, Add	342.35	
			For Aluminum With Satin Finish, Add	407.66	
			For Third Rail, Add	107.15	
			For 1" Square x 14 Gauge Pickets, Add	142.86	
32 31 19 00-0152	EA		7' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,745.73	56.01
			For Solid Pickets, Add	380.17	
			For Aluminum With Satin Finish, Add	448.01	
			For Third Rail, Add	118.31	
			For 1" Square x 14 Gauge Pickets, Add	157.75	
32 31 19 00-0153	EA		8' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,824.30	65.19
			For Solid Pickets, Add	395.77	
			For Aluminum With Satin Finish, Add	459.13	
			For Third Rail, Add	122.13	
			For 1" Square x 14 Gauge Pickets, Add	162.84	
32 31 19 00-0154	EA		9' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,956.74	74.83
			For Solid Pickets, Add	423.41	
			For Aluminum With Satin Finish, Add	485.91	
			For Third Rail, Add	129.90	
			For 1" Square x 14 Gauge Pickets, Add	173.20	
32 31 19 00-0155	EA		10' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	2,072.20	84.46
			For Solid Pickets, Add	447.24	
			For Aluminum With Satin Finish, Add	507.60	
			For Third Rail, Add	136.41	
			For 1" Square x 14 Gauge Pickets, Add	181.87	
32 31 19 00-0156	EA		6' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,266.17	53.68
			For Solid Pickets, Add	498.38	
			For Aluminum With Satin Finish, Add	610.81	
			For Third Rail, Add	158.46	
			For 1" Square x 14 Gauge Pickets, Add	211.28	
32 31 19 00-0157	EA		7' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,403.36	64.75
			For Solid Pickets, Add	526.88	
			For Aluminum With Satin Finish, Add	637.73	
			For Third Rail, Add	166.37	
			For 1" Square x 14 Gauge Pickets, Add	221.83	
32 31 19 00-0158	EA		8' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,537.46	75.37
			For Solid Pickets, Add	554.77	
			For Aluminum With Satin Finish, Add	664.26	
			For Third Rail, Add	174.15	
			For 1" Square x 14 Gauge Pickets, Add	232.20	
32 31 19 00-0159	EA		9' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,650.15	86.56
			For Solid Pickets, Add	577.75	
			For Aluminum With Satin Finish, Add	683.82	
			For Third Rail, Add	180.22	
			For 1" Square x 14 Gauge Pickets, Add	240.30	
32 31 19 00-0160	EA		10' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,079.48	97.63
			For Solid Pickets, Add	671.97	
			For Aluminum With Satin Finish, Add	798.38	
			For Third Rail, Add	210.05	
			For 1" Square x 14 Gauge Pickets, Add	280.07	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0161	EA	12' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,836.64 839.68 1,009.63 264.19 352.25	109.91
32 31 19 00-0162	EA	14' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,511.18 763.44 893.91 236.77 315.69	123.97
32 31 19 00-0163	EA	16' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,761.00 816.18 948.04 252.03 336.04	140.24
32 31 19 00-0164	EA	18' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	4,145.72 898.91 1,040.45 277.05 369.40	158.06
32 31 19 00-0165	EA	20' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	4,233.11 914.28 1,040.91 279.31 372.42	178.10
32 31 19 00-0166		Replace Steel Tube Fence Pickets (32 31 19 00-0032)		
32 31 19 00-0167	LF	Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket For 1" Square x 14 Gauge Pickets, Add	32.51 1.04	
32 31 19 00-0168		Removal And Reinstallation Of Ornamental Fences (32 31 19)		
		Note: Including storage and cleaning. Excludes augering and concrete.		
32 31 19 00-0169	LF	Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	49.81	
32 31 19 00-0170	LF	Removal And Reinstallation Of Ornamental Fence, 6' Height	54.79	
32 31 19 00-0171	LF	Removal And Reinstallation Of Ornamental Fence, 7' Height	59.77	
32 31 19 00-0172	LF	Removal And Reinstallation Of Ornamental Fence, 8' Height	64.75	
32 31 19 00-0173	LF	Removal And Reinstallation Of Ornamental Fence, 9' Height	69.73	
32 31 19 00-0174	LF	Removal And Reinstallation Of Ornamental Fence, 10' Height	74.72	
32 31 19 00-0175	LF	Removal And Reinstallation Of Ornamental Fence 12' Height	83.01	
32 31 23		Plastic Fences and Gates (32 31)		
32 31 23 00-0001		Vinyl Fence (32 31 23)		
32 31 23 00-0002		Privacy Tongue And Groove Vinyl Fence (32 31 23 00-0001)		
		Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Post includes flat cap.		
32 31 23 00-0003	LF	3' High Privacy Tongue And Groove Vinyl Fence	62.61	7.16
32 31 23 00-0004	LF	4' High Privacy Tongue And Groove Vinyl Fence	70.27	8.59
32 31 23 00-0005	LF	5' High Privacy Tongue And Groove Vinyl Fence	78.54	10.02
32 31 23 00-0006	LF	6' High Privacy Tongue And Groove Vinyl Fence	86.64	11.46
32 31 23 00-0007		Semi-Privacy 6" Picket Vinyl Fence (32 31 23 00-0001)		
		Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0008	LF	5' High Semi-Privacy 6" Picket Vinyl Fence	83.97	10.02
32 31 23 00-0009	LF	6' High Semi-Privacy 6" Picket Vinyl Fence	92.14	11.46
32 31 23 00-0010		Picket Straight Top Vinyl Fence (32 31 23 00-0001)		
		Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0011	LF	3' High Picket Straight Top Vinyl Fence	57.81	7.16
32 31 23 00-0012	LF	4' High Picket Straight Top Vinyl Fence	65.73	8.59
32 31 23 00-0013	LF	5' High Picket Straight Top Vinyl Fence	75.36	10.02
32 31 23 00-0014	LF	6' High Picket Straight Top Vinyl Fence	83.53	11.46
32 31 23 00-0015		Picket Scalloped Top Vinyl Fence (32 31 23 00-0001)		
		Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0016	LF	3' High Picket Scalloped Top Vinyl Fence	63.98	7.16
32 31 23 00-0017	LF	4' High Picket Scalloped Top Vinyl Fence	72.09	8.59
32 31 23 00-0018	LF	5' High Picket Scalloped Top Vinyl Fence	81.30	10.02
32 31 23 00-0019	LF	6' High Picket Scalloped Top Vinyl Fence	89.66	11.46



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0020		Post And Rail Vinyl Fence, Ranch Style (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Post includes flat cap.		
32 31 23 00-0021	LF	5' High, 2 Rail, Post And Rail Vinyl Fence	24.09	7.16
32 31 23 00-0022	LF	6-1/2' High, 3 Rail, Post And Rail Vinyl Fence	30.83	8.59
32 31 23 00-0023	LF	7' High, 4 Rail, Post And Rail Vinyl Fence	35.40	9.31
32 31 23 00-0024		Post, Rails And Pickets (Traditional Style) Vinyl Fence (32 31 23 00-0001) Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Post includes flat cap.		
32 31 23 00-0025	LF	3' High Rail And Picket Vinyl Fence, 72" On Center Posts	74.85	7.87
32 31 23 00-0026	LF	4' High Rail And Picket Vinyl Fence, 72" On Center Posts	81.88	9.31
32 31 23 00-0027	LF	3' High Rail And Picket Vinyl Fence, 96" On Center Posts	70.56	7.16
32 31 23 00-0028	LF	4' High Rail And Picket Vinyl Fence, 96" On Center Posts	76.89	8.59
32 31 23 00-0029		Vinyl Gates (32 31 23)		
32 31 23 00-0030		Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0029) Note: Includes hinges.		
32 31 23 00-0031		3' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0032	EA	3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	691.55	71.61
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0033	EA	3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	733.67	75.19
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0034	EA	3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	804.41	78.77
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0035	EA	3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	900.57	82.35
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0036		4' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0037	EA	4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	733.67	75.19
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0038	EA	4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	759.90	78.77
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0039	EA	4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	843.35	82.35
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0040	EA	4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	987.20	85.93
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0041		5' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0042	EA	5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	759.90	78.77
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0043	EA	5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	792.49	82.35
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0044	EA	5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	907.73	85.93
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0045	EA	5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	1,057.93	89.51
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0046		6' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0047	EA	6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	799.65	85.93
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0048	EA	6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	832.24	89.51
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0049	EA	6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	1,001.52	93.09
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0050	EA	6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	1,104.05	93.09
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0051		Gates For Picket Fences (32 31 23 00-0029) Note: Includes hinges.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0052		3' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0053	EA	3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	662.94	71.61
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0054	EA	3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	689.17	75.19
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0055	EA	3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	772.62	78.77
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0056	EA	3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	916.46	82.35
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0057		4' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0058	EA	4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	670.10	75.19
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0059	EA	4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	696.33	78.77
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0060	EA	4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	779.78	82.35
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0061	EA	4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	923.62	85.93
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0062		5' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0063	EA	5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	696.33	78.77
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0064	EA	5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	728.92	82.35
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0065	EA	5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	844.16	85.93
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0066	EA	5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	994.36	89.51
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0067		6' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0068	EA	6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	736.08	85.93
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0069	EA	6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	768.67	89.51
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0070	EA	6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	937.94	93.09
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0071	EA	6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	1,040.47	96.67
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0072		Gates Accessories (32 31 23 00-0029)		
32 31 23 00-0073	EA	Gate Stop/Drop Rod	150.22	
32 31 23 00-0074	EA	Latch Set	104.13	
32 31 23 00-0075	EA	Stainless Steel Latch Set	150.22	
32 31 26		Wire Fences and Gates (32 31)		
32 31 26 13		Wire Fences with Steel Posts (32 31 26)		
32 31 26 13-0001		Chicken Wire (32 31 26 13)		
		Note: Posts at 4'.		
32 31 26 13-0002	LF	4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'	9.30	1.93
32 31 26 13-0003	LF	6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'	10.11	1.93
32 31 26 13-0004		Wire And Screen (32 31 26 13)		
32 31 26 13-0005		Wire And Screen For Partitions And Fences (32 31 26 13-0004)		
		Note: Excludes framing and post.		
32 31 26 13-0006		Screen Wire (32 31 26 13-0005)		
32 31 26 13-0007	LF	Screen Wire, 48" Wide Rolls	16.20	1.44



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 26 13-0008 Hog Wire (32 31 26 13-0005)		
32 31 26 13-0009 SF 4" x 4" Hog Wire For Fencing	2.89	1.15
32 31 26 13-0010 SF 6" x 6" Hog Wire For Fencing	3.03	1.30
32 31 26 13-0011 Non-Climb Horse Fence (32 31 26 13-0005)		
32 31 26 13-0012 LF 4' Non-Climb Woven, 12.5 Gauge, Horse Fence	13.04	4.61
32 31 26 13-0013 LF 5' Non-Climb Woven, 12.5 Gauge, Horse Fence	16.71	5.76
32 31 26 13-0014 LF 6' Non-Climb Woven, 12.5 Gauge, Horse Fence	20.90	6.92
32 31 26 13-0015 Screen For Partitions And Ceilings (32 31 26 13-0004)		
Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016 SF 1" Mesh Chicken Wire	2.65	0.81
32 31 26 13-0017 Wicket Fence (32 31 26 13)		
32 31 26 13-0018 LF Steel Wicket Fence, Painted.....	84.06	5.81
32 31 29 Wood Fences and Gates (32 31)		
See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001 Basket Weave (32 31 29)		
Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002 LF 6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post.....	48.38	3.87
For Fastening With Screws Instead Of Nails, Add	2.82	
32 31 29 00-0003 LF 6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post.....	31.59	3.87
For Fastening With Screws Instead Of Nails, Add	2.01	
32 31 29 00-0004 Board Fence (32 31 29)		
Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005 LF Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence	30.87	3.87
For 1" x 6" Boards, Deduct	-3.20	
For 1" x 3" Boards (Stockade Top), Add	3.96	
For Fastening With Screws Instead Of Nails, Add	1.99	
32 31 29 00-0006 LF Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence	34.39	3.87
For 1" x 6" Boards, Deduct	-3.48	
For 1" x 3" Boards (Stockade Top), Add	4.29	
For Fastening With Screws Instead Of Nails, Add	2.20	
32 31 29 00-0007 LF Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence	38.50	3.87
For 1" x 6" Boards, Deduct	-3.73	
For 1" x 3" Boards (Stockade Top), Add	4.54	
For Fastening With Screws Instead Of Nails, Add	2.42	
32 31 29 00-0008 LF Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence	41.13	3.87
For 1" x 6" Boards, Deduct	-3.92	
For 1" x 3" Boards (Stockade Top), Add	4.75	
For Fastening With Screws Instead Of Nails, Add	2.57	
32 31 29 00-0009 LF Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence	44.01	3.87
For 1" x 6" Boards, Deduct	-4.12	
For 1" x 3" Boards (Stockade Top), Add	4.97	
For Fastening With Screws Instead Of Nails, Add	2.74	
32 31 29 00-0010 LF Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence	33.07	3.87
For 1" x 6" Boards, Deduct	-3.28	
For 1" x 3" Boards (Stockade Top), Add	4.02	
For Fastening With Screws Instead Of Nails, Add	2.10	
32 31 29 00-0011 LF Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence	36.09	3.87
For 1" x 6" Boards, Deduct	-3.55	
For 1" x 3" Boards (Stockade Top), Add	4.34	
For Fastening With Screws Instead Of Nails, Add	2.28	
32 31 29 00-0012 LF Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence	38.50	3.87
For 1" x 6" Boards, Deduct	-3.73	
For 1" x 3" Boards (Stockade Top), Add	4.54	
For Fastening With Screws Instead Of Nails, Add	2.42	
32 31 29 00-0013 LF Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence	41.13	3.87
For 1" x 6" Boards, Deduct	-3.92	
For 1" x 3" Boards (Stockade Top), Add	4.75	
For Fastening With Screws Instead Of Nails, Add	2.57	
32 31 29 00-0014 LF Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence	44.01	3.87
For 1" x 6" Boards, Deduct	-4.12	
For 1" x 3" Boards (Stockade Top), Add	4.97	
For Fastening With Screws Instead Of Nails, Add	2.74	
32 31 29 00-0015 LF Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence	33.08	3.87
For 1" x 6" Boards, Deduct	-3.28	
For 1" x 3" Boards (Stockade Top), Add	4.02	
For Fastening With Screws Instead Of Nails, Add	2.10	
32 31 29 00-0016 LF Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence	43.60	3.87
For 1" x 6" Boards, Deduct	-3.85	
For 1" x 3" Boards (Stockade Top), Add	4.56	
For Fastening With Screws Instead Of Nails, Add	2.66	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0017 LF Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence.....	45.70	3.87
For 1" x 6" Boards, Deduct	-4.02	
For 1" x 3" Boards (Stockade Top), Add	4.75	
For Fastening With Screws Instead Of Nails, Add	2.78	
32 31 29 00-0018 LF Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence.....	49.19	3.87
For 1" x 6" Boards, Deduct	-4.24	
For 1" x 3" Boards (Stockade Top), Add	4.99	
For Fastening With Screws Instead Of Nails, Add	2.98	
32 31 29 00-0019 LF Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence.....	52.98	3.87
For 1" x 6" Boards, Deduct	-4.48	
For 1" x 3" Boards (Stockade Top), Add	5.24	
For Fastening With Screws Instead Of Nails, Add	3.19	
32 31 29 00-0020 Shadow Box (32 31 29)		
Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine	67.50	3.87
For Fastening With Screws Instead Of Nails, Add	3.78	
32 31 29 00-0022 LF Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar	84.88	3.87
For Fastening With Screws Instead Of Nails, Add	4.72	
32 31 29 00-0023 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar	92.54	3.87
For Fastening With Screws Instead Of Nails, Add	5.12	
32 31 29 00-0024 LF Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar	99.44	3.87
For Fastening With Screws Instead Of Nails, Add	5.50	
32 31 29 00-0025 Open Rail Fence (32 31 29)		
32 31 29 00-0026 Post And Rail Fence, Ranch Style (32 31 29 00-0025)		
32 31 29 00-0027 LF Post And Rail Fence, 2 Rails, 3' High #1 Cedar.....	30.98	3.87
32 31 29 00-0028 LF Post And Rail Fence, 2 Rails, 3' High #2 Cedar.....	24.00	
32 31 29 00-0029 LF Post And Rail Fence, 3 Rails, 4' High #1 Cedar.....	36.81	3.87
32 31 29 00-0030 LF Post And Rail Fence, 3 Rails, 4' High #2 Cedar.....	25.93	3.87
32 31 29 00-0031 Split Rail Fence (32 31 29 00-0025)		
32 31 29 00-0032 LF Split Rail Fence, 2 Rails, 3' High #1 Cedar.....	29.19	3.87
32 31 29 00-0033 LF Split Rail Fence, 2 Rails, 3' High #2 Cedar	23.92	3.87
32 31 29 00-0034 LF Split Rail Fence, 3 Rail, 4' High #1 Cedar.....	33.38	3.87
32 31 29 00-0035 LF Split Rail Fence, 3 Rail, 4' High #2 Cedar.....	26.94	3.87
32 31 29 00-0036 Picket Fence (32 31 29)		
32 31 29 00-0037 LF Picket Fence, 2 Rail, 3' High, Pressure Treated	35.41	3.87
For Fastening With Screws Instead Of Nails, Add	2.23	
32 31 29 00-0038 LF Picket Fence, 2 Rail, 3' High #1 Cedar	33.01	3.87
For Fastening With Screws Instead Of Nails, Add	2.11	
32 31 29 00-0039 Wood Fence Post Accessories (32 31 29)		
32 31 29 00-0040 EA 3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	48.85	
32 31 29 00-0041 EA 4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	54.80	
32 31 29 00-0042 EA 6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	59.67	
32 31 29 00-0043 EA 8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	88.38	
32 31 29 00-0044 Wood Gate (32 31 29)		
32 31 29 00-0045 Board Fence Gates, Pressure Treated Wood (32 31 29 00-0044)		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046 EA 3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	511.05	160.25
32 31 29 00-0047 EA 3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	564.58	169.86
32 31 29 00-0048 EA 3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	630.94	185.88
32 31 29 00-0049 EA 3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	714.96	195.50
32 31 29 00-0050 EA 3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	798.98	205.11
32 31 29 00-0051 EA >5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	651.72	211.52
32 31 29 00-0052 EA >5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	709.07	221.13
32 31 29 00-0053 EA >5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	766.40	230.75
32 31 29 00-0054 EA >5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	861.87	240.36
32 31 29 00-0055 EA >5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	938.26	249.97
32 31 29 00-0056 Board Fence Gates, Grade 2 Cedar (32 31 29 00-0044)		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057 EA 3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	756.42	120.94
32 31 29 00-0058 EA 3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	782.37	128.19
32 31 29 00-0059 EA 3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	821.80	140.29
32 31 29 00-0060 EA 3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	866.80	147.54
32 31 29 00-0061 EA 3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	923.25	154.80



Exterior Improvements			32
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Fences and Gates			32 31

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0062	EA	>5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	891.00	159.64	
32 31 29 00-0063	EA	>5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	924.56	166.90	
32 31 29 00-0064	EA	>5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	977.19	174.15	
32 31 29 00-0065	EA	>5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,029.82	181.41	
32 31 29 00-0066	EA	>5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,082.44	188.67	
32 31 29 00-0067 Board Fence Gates, Grade 1 Cedar (32 31 29 00-0044)					
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)					
32 31 29 00-0068	EA	3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	813.59	120.94	
32 31 29 00-0069	EA	3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	847.17	128.19	
32 31 29 00-0070	EA	3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	890.40	140.29	
32 31 29 00-0071	EA	3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	943.03	147.54	
32 31 29 00-0072	EA	3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	995.66	154.80	
32 31 29 00-0073	EA	>5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	967.23	159.64	
32 31 29 00-0074	EA	>5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,000.79	166.90	
32 31 29 00-0075	EA	>5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,053.42	174.15	
32 31 29 00-0076	EA	>5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,106.04	181.41	
32 31 29 00-0077	EA	>5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,177.72	188.67	
32 31 29 00-0078 Pressure Treated Wood Fence Posts (32 31 29)					
See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0684 for barbed wire, 32 31 56 00-0017 for barbed wire.					
32 31 29 00-0079	EA	4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	48.71	16.02	
32 31 29 00-0080	EA	6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	54.73	16.02	
32 31 29 00-0081	EA	4' High, Pressure Treated Wood Fence Posts, Set In Concrete	85.92	30.76	
32 31 29 00-0082	EA	6' High, Pressure Treated Wood Fence Posts, Set In Concrete	92.78	30.76	
32 31 29 00-0083 Wood Utility Pole Fence (32 31 29)					
Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.					
32 31 29 00-0084	LF	Wood Utility Pole Barrier Fence.....	59.41	3.87	
Note: Includes notching post, drilling and pinned with #5 rebar.					
32 31 29 00-0085 Wood Rail Fence (32 31 29)					
Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill					
32 31 29 00-0086	LF	4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	29.92	3.87	
32 31 34 Tubular Barrier Gates (32 31)					
32 31 34 00-0001 Pipe Gate (32 31 34)					
Note: Excludes augering and concrete. See CSI section 32 31 13 13-0001 for augering post holes and concrete fill.					
32 31 34 00-0002	EA	20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	4,340.64		
32 31 34 00-0003	EA	25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	5,429.52		
32 31 34 00-0004	EA	30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	6,470.70		
32 31 41 Precast Concrete Fences (32 31)					
32 31 41 00-0001 Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. (32 31 41)					
Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.					
32 31 41 00-0002	LF	Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury	74.23	3.87	
Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.					
32 31 56 Wild Life Deterrent Fence (32 31)					
32 31 56 00-0001 Barbed Wire Fences (32 31 56)					
Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.					
32 31 56 00-0002 Fence Posts (32 31 56 00-0001)					
32 31 56 00-0003 Fence Post Soil, Set In Concrete (32 31 56 00-0002)					
32 31 56 00-0004	EA	Barbed Wire Fence Post, Galvanized Set In Concrete In Soil	113.22	8.85	
			For Bracing On Corner Post, End Post And Pull Post, Add	182.80	
32 31 56 00-0005	EA	Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil	152.92	8.85	
			For Bracing On Corner Post, End Post And Pull Post, Add	249.10	
32 31 56 00-0006 Post In Rock (32 31 56 00-0002)					
32 31 56 00-0007	EA	Barbed Wire Fence Post, Galvanized Grouted In Rock.....	111.27	8.85	
			For Bracing On Corner Post, End Post And Pull Post, Add	179.88	
32 31 56 00-0008	EA	Barbed Wire Fence Post, Vinyl Coated Grouted In Rock	150.97	8.85	
			For Bracing On Corner Post, End Post And Pull Post, Add	246.18	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish** (32 31 56 00-0001)

Note: Posts for barb wire, chain link or welded wire mesh.

32 31 56 00-0010	EA	5' Studded Steel T-Post, Driven Into Earth	28.37	
32 31 56 00-0011	EA	5'-6" Studded Steel T-Post, Driven Into Earth	29.07	
32 31 56 00-0012	EA	6' Studded Steel T-Post, Driven Into Earth	30.41	
32 31 56 00-0013	EA	6'-6" Studded Steel T-Post, Driven Into Earth	31.73	
32 31 56 00-0014	EA	7' Studded Steel T-Post, Driven Into Earth	33.49	
32 31 56 00-0015	EA	8' Studded Steel T-Post, Driven Into Earth	37.76	
32 31 56 00-0016	EA	10' Studded Steel T-Post, Driven Into Earth	46.10	

32 31 56 00-0017 Barbed Wire (32 31 56 00-0001)

Note: Per strand.

32 31 56 00-0018	LF	Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.99	0.44
32 31 56 00-0019	LF	Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand	1.15	0.44

32 31 56 00-0020 Barbed Wire Fence, Farm Style, With Wood Posts (32 31 56 00-0001)

Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.

32 31 56 00-0021	LF	4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts	12.67	2.88

Note: Posts at 10' maximum.

32 32 Retaining Walls (32 30)**32 32 13 Cast-In-Place Concrete Retaining Wall** (32 32)

Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0001 Concrete Retaining Walls (32 32 13)

Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0002	LF	4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	416.57	155.62
		For >3:1 Sloped Soil At Top, Add	8.96	
32 32 13 00-0003	LF	6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	519.22	191.49
		For >3:1 Sloped Soil At Top, Add	11.57	
32 32 13 00-0004	LF	8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	565.24	206.54
		For >3:1 Sloped Soil At Top, Add	12.93	
32 32 13 00-0005	LF	10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	718.77	255.38
		For >3:1 Sloped Soil At Top, Add	17.69	
32 32 13 00-0006	LF	12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	828.23	293.35
		For >3:1 Sloped Soil At Top, Add	20.52	
32 32 13 00-0007	LF	16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,199.12	430.35
		For >3:1 Sloped Soil At Top, Add	28.78	
32 32 13 00-0008	LF	20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,646.72	594.12
		For >3:1 Sloped Soil At Top, Add	38.96	
32 32 13 00-0009	LF	4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	457.60	169.94
		For >3:1 Sloped Soil At Top, Add	10.01	
32 32 13 00-0010	LF	6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	559.60	204.76
		For >3:1 Sloped Soil At Top, Add	12.76	
32 32 13 00-0011	LF	8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	592.03	213.65
		For >3:1 Sloped Soil At Top, Add	14.00	
32 32 13 00-0012	LF	10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	813.22	286.34
		For >3:1 Sloped Soil At Top, Add	20.44	
32 32 13 00-0013	LF	12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,031.88	367.81
		For >3:1 Sloped Soil At Top, Add	25.18	
32 32 13 00-0014	LF	16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,548.25	557.52
		For >3:1 Sloped Soil At Top, Add	36.83	
32 32 13 00-0015	LF	20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	2,185.09	786.96
		For >3:1 Sloped Soil At Top, Add	51.95	

32 32 16 Precast Concrete Retaining Walls (32 32)**32 32 16 00-0001 Precast Retaining Walls** (32 32 16)

Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.

32 32 16 00-0002	SF	10'-15' High, Tied-back, Precast Concrete Retaining Walls	110.79	16.36
32 32 16 00-0003	SF	16-20' High, Tied-back, Precast Concrete Retaining Walls	113.68	13.15
32 32 16 00-0004	SF	21-25' High, Tied-back, Precast Concrete Retaining Walls	117.83	10.96
32 32 16 00-0005	SF	26-30' High, Tied-back, Precast Concrete Retaining Walls	127.39	10.96
32 32 16 00-0006	SF	>30' High, Tied-back, Precast Concrete Retaining Walls	134.73	9.35

32 32 23 Segmental Retaining Walls (32 32)**32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls** (32 32 23)



Exterior Improvements		32	32
Site Improvements		32 30	
Retaining Walls		32 32	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0001	Modular Retaining Wall Systems (32 32 23 13) Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.		
32 32 23 13-0002	"Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0003	SF Up To 4' Height "Amastone" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	76.26 4.79	9.93
32 32 23 13-0004	SF 4 To 8' Height "Amastone" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	80.46 5.06	10.46
32 32 23 13-0005	SF 8 To 12' Height "Amastone" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	83.89 5.18	11.50
32 32 23 13-0006	SF 12 To 16' Height "Amastone" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	87.54 5.31	12.55
32 32 23 13-0007	"Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0008	SF Up To 4' Height "Diamond" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	79.21 5.04	9.93
32 32 23 13-0009	SF 4 To 8' Height "Diamond" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	83.41 5.31	10.46
32 32 23 13-0010	SF 8 To 12' Height "Diamond" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	86.83 5.43	11.50
32 32 23 13-0011	SF 12 To 16' Height "Diamond" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	90.48 5.56	12.55
32 32 23 13-0012	"Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0013	SF Up To 4' Height "Keystone" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	86.25 5.64	9.93
32 32 23 13-0014	SF 4 To 8' Height "Keystone" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	90.45 5.91	10.46
32 32 23 13-0015	SF 8 To 12' Height "Keystone" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	93.88 6.02	11.50
32 32 23 13-0016	SF 12 To 16' Height "Keystone" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	97.53 6.16	12.55
32 32 23 13-0017	"Criblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0018	SF Up To 4' Height "Criblock" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add For Gravel Backfill Instead Of Earth, Add	76.26 4.79 0.25	9.93
32 32 23 13-0019	SF 4 To 8' Height "Criblock" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add For Gravel Backfill Instead Of Earth, Add	80.46 5.06 0.25	10.46
32 32 23 13-0020	SF 8 To 12' Height "Criblock" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add For Gravel Backfill Instead Of Earth, Add	83.89 5.18 0.25	11.50
32 32 23 13-0021	SF 12 To 16' Height "Criblock" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add For Gravel Backfill Instead Of Earth, Add	87.54 5.31 0.25	12.55
32 32 23 13-0022	"Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0023	SF Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	67.32 4.03	9.93
32 32 23 13-0024	SF 4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	74.46 4.55	10.46
32 32 23 13-0025	SF 8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	77.94 4.67	11.50
32 32 23 13-0026	SF 12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System For >3:1 Sloped Soil At Top, Add	81.04 4.75	12.55
32 32 23 13-0027	Retaining Wall Cap Block Restoration (32 32 23 13-0001) Note: Includes removal of existing cap block and installation of new cap block to match.		
32 32 23 13-0028	LF Removal And Reinstall Retaining Wall Cap Block And Pins For >3:1 Sloped Soil At Top, Add	42.27 2.26	
32 32 26	Metal Crib Retaining Walls (32 32)		
32 32 26 00-0001	Aluminized Steel Bin (32 32 26) Note: Excludes excavation and backfill.		
32 32 26 00-0002	SF 4' High, 5.5' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	48.48 3.18 -3.75	5.52
32 32 26 00-0003	SF 8' High, 5.5' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	54.27 3.67 -4.31	5.52
32 32 26 00-0004	SF 10' High, 7.7' Deep Aluminized Steel Bin For >3:1 Sloped Soil At Top, Add For Galvanized Type, Deduct	57.96 3.91 -4.60	6.04

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26 00-0005	SF	12' High, 7.7' Deep Aluminized Steel Bin.....	66.02	6.81
		For >3:1 Sloped Soil At Top, Add	4.45	
		For Galvanized Type, Deduct	-5.24	
32 32 26 00-0006	SF	16' High, 7.7' Deep Aluminized Steel Bin.....	63.58	7.07
		For >3:1 Sloped Soil At Top, Add	4.21	
		For Galvanized Type, Deduct	-4.96	
32 32 26 00-0007	SF	16' High, 9.9' Deep Aluminized Steel Bin.....	70.86	7.19
		For >3:1 Sloped Soil At Top, Add	4.81	
		For Galvanized Type, Deduct	-5.66	
32 32 26 00-0008	SF	20' High, 9.9' Deep Aluminized Steel Bin.....	78.60	7.58
		For >3:1 Sloped Soil At Top, Add	5.38	
		For Galvanized Type, Deduct	-6.33	
32 32 26 00-0009	SF	20' High, 12.1' Deep Aluminized Steel Bin.....	80.48	7.96
		For >3:1 Sloped Soil At Top, Add	5.50	
		For Galvanized Type, Deduct	-6.47	
32 32 26 00-0010	SF	24' High, 12.1' Deep Aluminized Steel Bin.....	84.66	7.96
		For >3:1 Sloped Soil At Top, Add	5.84	
		For Galvanized Type, Deduct	-6.87	
32 32 26 00-0011	SF	24' High, 14.3' Deep Aluminized Steel Bin.....	88.82	8.09
		For >3:1 Sloped Soil At Top, Add	6.18	
		For Galvanized Type, Deduct	-7.28	
32 32 26 00-0012	SF	28' High, 14.3' Deep Aluminized Steel Bin.....	91.78	8.22
		For >3:1 Sloped Soil At Top, Add	6.41	
		For Galvanized Type, Deduct	-7.55	

32 32 29 Timber Retaining Walls (32 32)**32 32 29 00-0001 Wood Post Retaining Walls (32 32 29)**

Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0002	LF	4" x 4", 1' High, Redwood, Wood Post Retaining Walls	97.39	35.19
		For >3:1 Sloped Soil At Top, Add	2.31	
32 32 29 00-0003	LF	4" x 4", 2' High, Redwood, Wood Post Retaining Walls	190.62	68.90
		For >3:1 Sloped Soil At Top, Add	4.50	
32 32 29 00-0004	LF	4" x 4", 1' High, Cedar, Wood Post Retaining Walls	93.92	35.19
		For >3:1 Sloped Soil At Top, Add	2.01	
32 32 29 00-0005	LF	4" x 4", 2' High, Cedar, Wood Post Retaining Walls	183.88	68.90
		For >3:1 Sloped Soil At Top, Add	3.92	
32 32 29 00-0006	LF	4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls	87.54	30.74
		For >3:1 Sloped Soil At Top, Add	2.21	
32 32 29 00-0007	LF	4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	171.32	60.14
		For >3:1 Sloped Soil At Top, Add	4.33	
32 32 29 00-0008	LF	4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls	77.50	27.29
		For >3:1 Sloped Soil At Top, Add	1.95	
32 32 29 00-0009	LF	4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls	140.14	49.39
		For >3:1 Sloped Soil At Top, Add	3.52	
32 32 29 00-0010	LF	6" x 6", 2' High, Redwood, Wood Post Retaining Walls	255.42	83.47
		For >3:1 Sloped Soil At Top, Add	7.52	
32 32 29 00-0011	LF	6" x 6", 4' High, Redwood, Wood Post Retaining Walls	504.08	163.62
		For >3:1 Sloped Soil At Top, Add	15.04	
32 32 29 00-0012	LF	6" x 6", 2' High, Cedar, Wood Post Retaining Walls	251.57	83.47
		For >3:1 Sloped Soil At Top, Add	7.20	
32 32 29 00-0013	LF	6" x 6", 4' High, Cedar, Wood Post Retaining Walls	494.46	163.62
		For >3:1 Sloped Soil At Top, Add	14.23	
32 32 29 00-0014	LF	6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls	218.35	67.79
		For >3:1 Sloped Soil At Top, Add	7.03	
32 32 29 00-0015	LF	6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	433.24	133.86
		For >3:1 Sloped Soil At Top, Add	14.06	
32 32 29 00-0016	LF	6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls	174.89	54.21
		For >3:1 Sloped Soil At Top, Add	5.64	
32 32 29 00-0017	LF	6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls	343.90	106.07
		For >3:1 Sloped Soil At Top, Add	11.20	
32 32 29 00-0018	LF	8" x 8", 4' High, Redwood, Wood Post Retaining Walls	625.43	180.90
		For >3:1 Sloped Soil At Top, Add	22.40	
32 32 29 00-0019	LF	8" x 8", 6' High, Redwood, Wood Post Retaining Walls	1,169.77	337.72
		For >3:1 Sloped Soil At Top, Add	42.03	
32 32 29 00-0020	LF	8" x 8", 4' High, Cedar, Wood Post Retaining Walls	606.20	180.90
		For >3:1 Sloped Soil At Top, Add	20.77	
32 32 29 00-0021	LF	8" x 8", 6' High, Cedar, Wood Post Retaining Walls	1,133.22	337.72
		For >3:1 Sloped Soil At Top, Add	38.92	
32 32 29 00-0022	LF	8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls	613.63	208.68
		For >3:1 Sloped Soil At Top, Add	16.68	
32 32 29 00-0023	LF	8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls	1,144.96	389.71
		For >3:1 Sloped Soil At Top, Add	31.07	
32 32 29 00-0024	LF	8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls	496.04	168.67
		For >3:1 Sloped Soil At Top, Add	13.49	
32 32 29 00-0025	LF	8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls	920.03	312.89
		For >3:1 Sloped Soil At Top, Add	25.02	
32 32 29 00-0026	LF	4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	187.23	69.52
		For >3:1 Sloped Soil At Top, Add	4.09	
32 32 29 00-0027	LF	6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	279.88	104.34
		For >3:1 Sloped Soil At Top, Add	6.05	
32 32 29 00-0028	LF	8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls	372.43	139.04
		For >3:1 Sloped Soil At Top, Add	8.01	



Exterior Improvements			32
Site Improvements			32 30
Retaining Walls			32 32

32

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
32 32 29 00-0029	LF	4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	125.74 4.01	39.27
32 32 29 00-0030	LF	6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	182.65 5.89	56.68
32 32 29 00-0031	LF	8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	247.30 8.01	76.56
32 32 29 00-0032 Post And Board Retaining Walls (32 32 29)				
Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.				
32 32 29 00-0033	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	76.66 2.97	20.87
32 32 29 00-0034	LF	4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	118.44 4.01	35.68
32 32 29 00-0035	LF	6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	155.07 5.64	44.33
32 32 29 00-0036	LF	6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	216.96 7.77	62.85
32 32 29 00-0037	LF	6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	283.71 10.22	81.74
32 32 29 00-0038	LF	8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	581.29 21.91	161.76
32 32 29 00-0039	LF	8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	656.44 25.35	179.16
32 32 29 00-0040	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	77.92 2.93	21.73
32 32 29 00-0041	LF	4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	136.86 5.07	38.65
32 32 29 00-0042	LF	6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	134.51 4.99	37.91
32 32 29 00-0043	LF	6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	188.72 6.79	54.45
32 32 29 00-0044	LF	6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	294.16 10.22	86.93
32 32 29 00-0045	LF	6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar..... <i>For >3:1 Sloped Soil At Top, Add</i>	232.64 8.42	66.80
32 32 29 00-0046	LF	8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar..... <i>For >3:1 Sloped Soil At Top, Add</i>	601.25 22.73	166.95
32 32 29 00-0047	LF	4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	100.08 1.68	40.14
32 32 29 00-0048	LF	4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	144.60 2.59	57.04
32 32 29 00-0049	LF	4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat..... <i>For >3:1 Sloped Soil At Top, Add</i>	209.41 4.50	78.29
32 32 29 00-0050	LF	6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	367.22 8.75	132.12
32 32 29 00-0051	LF	6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	372.03 9.16	132.12
32 32 29 00-0052	LF	6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat..... <i>For >3:1 Sloped Soil At Top, Add</i>	350.12 8.18	126.94
32 32 29 00-0053	LF	8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated..... <i>For >3:1 Sloped Soil At Top, Add</i>	822.51 20.28	292.03
32 32 29 00-0054	LF	4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	100.08 1.68	40.14
32 32 29 00-0055	LF	4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	144.60 2.59	57.04
32 32 29 00-0056	LF	4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	209.41 4.50	78.29
32 32 29 00-0057	LF	6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking..... <i>For >3:1 Sloped Soil At Top, Add</i>	263.06 5.81	97.43
32 32 29 00-0058	LF	6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	367.22 8.75	132.12
32 32 29 00-0059	LF	6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	350.12 8.18	126.94
32 32 29 00-0060	LF	8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	822.51 20.28	292.03
32 32 29 00-0061 Wood Tie Retaining Walls, Rod Connector At 4' (32 32 29)				
Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.				
32 32 29 00-0062 Redwood (32 32 29 00-0061)				
32 32 29 00-0063	LF	2' High, 6" x 6" Wood Tie Wall..... <i>For >3:1 Sloped Soil At Top, Add</i>	131.73 3.92	42.73
32 32 29 00-0064	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	300.57 8.99	97.43
32 32 29 00-0065	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	449.98 13.41	146.08
32 32 29 00-0066	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	433.15 15.53	125.20

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0067	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	650.84	187.82
		For >3:1 Sloped Soil At Top, Add	23.38	
32 32 29 00-0068	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	859.39	246.96
		For >3:1 Sloped Soil At Top, Add	31.07	
32 32 29 00-0069		Cedar (32 32 29 00-0061)		
32 32 29 00-0070	LF	2' High, 6" x 6" Wood Tie Wall 129.81	129.81	42.73
		For >3:1 Sloped Soil At Top, Add	3.76	
32 32 29 00-0071	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... 294.80	294.80	97.43
		For >3:1 Sloped Soil At Top, Add	8.50	
32 32 29 00-0072	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... 442.29	442.29	146.08
		For >3:1 Sloped Soil At Top, Add	12.76	
32 32 29 00-0073	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... 419.69	419.69	125.20
		For >3:1 Sloped Soil At Top, Add	14.39	
32 32 29 00-0074	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... 631.60	631.60	187.82
		For >3:1 Sloped Soil At Top, Add	21.75	
32 32 29 00-0075	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... 832.45	832.45	246.96
		For >3:1 Sloped Soil At Top, Add	28.78	
32 32 29 00-0076		Creosoted Wood (32 32 29 00-0061)		
32 32 29 00-0077	LF	2' High, 6" x 8" Wood Tie Wall 146.19	146.19	56.68
		For >3:1 Sloped Soil At Top, Add	2.79	
32 32 29 00-0078	LF	4' High, 6" x 8" Wood Tie Wall Deadman At 6'..... 334.96	334.96	130.40
		For >3:1 Sloped Soil At Top, Add	6.30	
32 32 29 00-0079	LF	6' High, 6" x 8" Wood Tie Wall Deadman At 6'..... 496.65	496.65	193.00
		For >3:1 Sloped Soil At Top, Add	9.40	
32 32 29 00-0080	LF	4' High, 7" x 9" Wood Tie Wall Deadman At 6'..... 673.26	673.26	262.52
		For >3:1 Sloped Soil At Top, Add	12.59	
32 32 29 00-0081	LF	6' High, 7" x 9" Wood Tie Wall Deadman At 6'..... 980.29	980.29	382.41
		For >3:1 Sloped Soil At Top, Add	18.31	
32 32 29 00-0082	LF	8' High, 7" x 9" Wood Tie Wall Deadman At 6'..... 1,300.72	1,300.72	507.01
		For >3:1 Sloped Soil At Top, Add	24.37	
32 32 29 00-0083		Pressure Treated Wood (32 32 29 00-0061)		
32 32 29 00-0084	LF	2' High, 6" x 6" Wood Tie Wall 114.00	114.00	35.32
		For >3:1 Sloped Soil At Top, Add	3.69	
32 32 29 00-0085	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... 259.07	259.07	80.01
		For >3:1 Sloped Soil At Top, Add	8.42	
32 32 29 00-0086	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... 388.11	388.11	120.02
		For >3:1 Sloped Soil At Top, Add	12.59	
32 32 29 00-0087	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... 424.21	424.21	144.35
		For >3:1 Sloped Soil At Top, Add	11.53	
32 32 29 00-0088	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... 637.18	637.18	215.72
		For >3:1 Sloped Soil At Top, Add	17.50	
32 32 29 00-0089	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... 844.86	844.86	286.84
		For >3:1 Sloped Soil At Top, Add	23.06	
32 32 53		Stone Retaining Walls (32 32)		
32 32 53 00-0001		Stone Retaining Walls (32 32 53)		
		Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.		
32 32 53 00-0002		Stone Retaining Walls (32 32 53 00-0001)		
		Note: Stone at \$16.00/ton.		
32 32 53 00-0003	LF	\$16.00/ton 3' High Stone Retaining Wall, Dry Set..... 524.58	524.58	235.38
		For >3:1 Sloped Soil At Top, Add	4.57	
32 32 53 00-0004	LF	\$16.00/ton 4' High Stone Retaining Wall, Dry Set..... 618.84	618.84	280.03
		For >3:1 Sloped Soil At Top, Add	4.99	
32 32 53 00-0005	LF	\$16.00/ton 6' High Stone Retaining Wall, Dry Set..... 812.78	812.78	372.04
		For >3:1 Sloped Soil At Top, Add	5.84	
32 32 53 00-0006	LF	\$16.00/ton 8' High Stone Retaining Wall, Dry Set..... 1,252.19	1,252.19	581.71
		For >3:1 Sloped Soil At Top, Add	7.54	
32 32 53 00-0007	LF	\$16.00/ton 10' High Stone Retaining Wall, Dry Set..... 1,626.89	1,626.89	760.93
		For >3:1 Sloped Soil At Top, Add	8.92	
32 32 53 00-0008	LF	\$16.00/ton 12' High Stone Retaining Wall, Dry Set..... 2,018.93	2,018.93	947.58
		For >3:1 Sloped Soil At Top, Add	10.51	
32 32 53 00-0009	LF	\$16.00/ton 3' High Stone Retaining Wall, Mortar Set..... 470.52	470.52	208.40
		For >3:1 Sloped Soil At Top, Add	4.57	
32 32 53 00-0010	LF	\$16.00/ton 4' High Stone Retaining Wall, Mortar Set..... 551.92	551.92	246.57
		For >3:1 Sloped Soil At Top, Add	4.99	
32 32 53 00-0011	LF	\$16.00/ton 6' High Stone Retaining Wall, Mortar Set..... 713.99	713.99	322.59
		For >3:1 Sloped Soil At Top, Add	5.84	
32 32 53 00-0012	LF	\$16.00/ton 8' High Stone Retaining Wall, Mortar Set..... 1,093.18	1,093.18	502.23
		For >3:1 Sloped Soil At Top, Add	7.54	
32 32 53 00-0013	LF	\$16.00/ton 10' High Stone Retaining Wall, Mortar Set..... 1,403.85	1,403.85	649.46
		For >3:1 Sloped Soil At Top, Add	8.92	
32 32 53 00-0014	LF	\$16.00/ton 12' High Stone Retaining Wall, Mortar Set..... 1,743.82	1,743.82	810.08
		For >3:1 Sloped Soil At Top, Add	10.51	



Exterior Improvements		32	32
Site Improvements		32 30	
Retaining Walls		32 32	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0015			Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$32.00/ton.		
32 32 53 00-0016	LF		\$32.00/ton 3' High Stone Retaining Wall, Dry Set	540.82	235.38
			For >3:1 Sloped Soil At Top, Add	5.95	
32 32 53 00-0017	LF		\$32.00/ton 4' High Stone Retaining Wall, Dry Set	641.33	280.03
			For >3:1 Sloped Soil At Top, Add	6.90	
32 32 53 00-0018	LF		\$32.00/ton 6' High Stone Retaining Wall, Dry Set	845.27	372.04
			For >3:1 Sloped Soil At Top, Add	8.60	
32 32 53 00-0019	LF		\$32.00/ton 8' High Stone Retaining Wall, Dry Set	1,299.67	581.71
			For >3:1 Sloped Soil At Top, Add	11.58	
32 32 53 00-0020	LF		\$32.00/ton 10' High Stone Retaining Wall, Dry Set	1,691.86	760.93
			For >3:1 Sloped Soil At Top, Add	14.44	
32 32 53 00-0021	LF		\$32.00/ton 12' High Stone Retaining Wall, Dry Set	2,101.40	947.58
			For >3:1 Sloped Soil At Top, Add	17.52	
32 32 53 00-0022	LF		\$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	486.76	208.40
			For >3:1 Sloped Soil At Top, Add	5.95	
32 32 53 00-0023	LF		\$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	574.41	246.57
			For >3:1 Sloped Soil At Top, Add	6.90	
32 32 53 00-0024	LF		\$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	746.48	322.59
			For >3:1 Sloped Soil At Top, Add	8.60	
32 32 53 00-0025	LF		\$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,140.66	502.23
			For >3:1 Sloped Soil At Top, Add	11.58	
32 32 53 00-0026	LF		\$32.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,468.82	649.46
			For >3:1 Sloped Soil At Top, Add	14.44	
32 32 53 00-0027	LF		\$32.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,826.29	810.08
			For >3:1 Sloped Soil At Top, Add	17.52	
32 32 53 00-0028			Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$48.00/ton.		
32 32 53 00-0029	LF		\$48.00/ton 3' High Stone Retaining Wall, Dry Set	558.31	235.38
			For >3:1 Sloped Soil At Top, Add	7.43	
32 32 53 00-0030	LF		\$48.00/ton 4' High Stone Retaining Wall, Dry Set	663.57	280.03
			For >3:1 Sloped Soil At Top, Add	8.79	
32 32 53 00-0031	LF		\$48.00/ton 6' High Stone Retaining Wall, Dry Set	876.51	372.04
			For >3:1 Sloped Soil At Top, Add	11.26	
32 32 53 00-0032	LF		\$48.00/ton 8' High Stone Retaining Wall, Dry Set	1,347.16	581.71
			For >3:1 Sloped Soil At Top, Add	15.61	
32 32 53 00-0033	LF		\$48.00/ton 10' High Stone Retaining Wall, Dry Set	1,756.83	760.93
			For >3:1 Sloped Soil At Top, Add	19.97	
32 32 53 00-0034	LF		\$48.00/ton 12' High Stone Retaining Wall, Dry Set	2,185.11	947.58
			For >3:1 Sloped Soil At Top, Add	24.64	
32 32 53 00-0035	LF		\$48.00/ton 3' High Stone Retaining Wall, Mortar Set.....	504.25	208.40
			For >3:1 Sloped Soil At Top, Add	7.43	
32 32 53 00-0036	LF		\$48.00/ton 4' High Stone Retaining Wall, Mortar Set.....	596.90	246.57
			For >3:1 Sloped Soil At Top, Add	8.82	
32 32 53 00-0037	LF		\$48.00/ton 6' High Stone Retaining Wall, Mortar Set.....	777.72	322.59
			For >3:1 Sloped Soil At Top, Add	11.26	
32 32 53 00-0038	LF		\$48.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,188.15	502.23
			For >3:1 Sloped Soil At Top, Add	15.61	
32 32 53 00-0039	LF		\$48.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,533.79	649.46
			For >3:1 Sloped Soil At Top, Add	19.97	
32 32 53 00-0040	LF		\$48.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,910.00	810.08
			For >3:1 Sloped Soil At Top, Add	24.64	
32 32 53 00-0041			Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$64.00/ton.		
32 32 53 00-0042	LF		\$64.00/ton 3' High Stone Retaining Wall, Dry Set	575.81	235.38
			For >3:1 Sloped Soil At Top, Add	8.92	
32 32 53 00-0043	LF		\$64.00/ton 4' High Stone Retaining Wall, Dry Set	661.32	280.03
			For >3:1 Sloped Soil At Top, Add	8.60	
32 32 53 00-0044	LF		\$64.00/ton 6' High Stone Retaining Wall, Dry Set	910.24	372.04
			For >3:1 Sloped Soil At Top, Add	14.13	
32 32 53 00-0045	LF		\$64.00/ton 8' High Stone Retaining Wall, Dry Set	1,397.14	581.71
			For >3:1 Sloped Soil At Top, Add	19.86	
32 32 53 00-0046	LF		\$64.00/ton 10' High Stone Retaining Wall, Dry Set	1,824.31	760.93
			For >3:1 Sloped Soil At Top, Add	25.70	
32 32 53 00-0047	LF		\$64.00/ton 12' High Stone Retaining Wall, Dry Set	2,270.08	947.58
			For >3:1 Sloped Soil At Top, Add	31.86	
32 32 53 00-0048	LF		\$64.00/ton 3' High Stone Retaining Wall, Mortar Set.....	521.75	208.40
			For >3:1 Sloped Soil At Top, Add	8.92	
32 32 53 00-0049	LF		\$64.00/ton 4' High Stone Retaining Wall, Mortar Set.....	619.39	246.57
			For >3:1 Sloped Soil At Top, Add	10.73	
32 32 53 00-0050	LF		\$64.00/ton 6' High Stone Retaining Wall, Mortar Set.....	811.45	322.59
			For >3:1 Sloped Soil At Top, Add	14.13	
32 32 53 00-0051	LF		\$64.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,238.13	502.23
			For >3:1 Sloped Soil At Top, Add	19.86	
32 32 53 00-0052	LF		\$64.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,601.27	649.46
			For >3:1 Sloped Soil At Top, Add	25.70	
32 32 53 00-0053	LF		\$64.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,994.97	810.08
			For >3:1 Sloped Soil At Top, Add	31.86	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 35 Screening Devices (32 30)**32 35 16 Sound Barriers** (32 35)**32 35 16 00-0001 Precast Concrete Roadway Sound Barriers And Support Including Caps**

For Columns (32 35 16)

Note: Installed on steel supports. Finish to be determined by owner (ribbed, patterned, stamped, exposed aggregate or smooth)

32 35 16 00-0002 4" Thick (32 35 16 00-0001)

32 35 16 00-0003	LF	6' High x 4" Thick Precast Concrete Sound Walls	203.05	27.62
32 35 16 00-0004	LF	7' High x 4" Thick Precast Concrete Sound Walls	219.56	30.83
32 35 16 00-0005	LF	8' High x 4" Thick Precast Concrete Sound Walls	239.05	33.40
32 35 16 00-0006	LF	9' High x 4" Thick Precast Concrete Sound Walls	255.02	35.97
32 35 16 00-0007	LF	10' High x 4" Thick Precast Concrete Sound Walls	269.72	38.54
32 35 16 00-0008	LF	11' High x 4" Thick Precast Concrete Sound Walls	290.70	39.83
32 35 16 00-0009	LF	12' High x 4" Thick Precast Concrete Sound Walls	311.15	41.75

32 35 16 00-0010 6" Thick (32 35 16 00-0001)

32 35 16 00-0011	LF	6' High x 6" Thick Precast Concrete Sound Walls	242.36	32.11
32 35 16 00-0012	LF	7' High x 6" Thick Precast Concrete Sound Walls	262.04	35.97
32 35 16 00-0013	LF	8' High x 6" Thick Precast Concrete Sound Walls	285.28	39.83
32 35 16 00-0014	LF	9' High x 6" Thick Precast Concrete Sound Walls	304.32	42.39
32 35 16 00-0015	LF	10' High x 6" Thick Precast Concrete Sound Walls	321.85	44.96
32 35 16 00-0016	LF	11' High x 6" Thick Precast Concrete Sound Walls	346.96	46.88
32 35 16 00-0017	LF	12' High x 6" Thick Precast Concrete Sound Walls	371.43	48.82

32 35 16 00-0018 8" Thick (32 35 16 00-0001)

32 35 16 00-0019	LF	6' High x 8" Thick Precast Concrete Sound Walls	292.84	38.54
32 35 16 00-0020	LF	7' High x 8" Thick Precast Concrete Sound Walls	316.53	42.39
32 35 16 00-0021	LF	8' High x 8" Thick Precast Concrete Sound Walls	344.60	46.24
32 35 16 00-0022	LF	9' High x 8" Thick Precast Concrete Sound Walls	367.54	50.10
32 35 16 00-0023	LF	10' High x 8" Thick Precast Concrete Sound Walls	388.73	53.31
32 35 16 00-0024	LF	11' High x 8" Thick Precast Concrete Sound Walls	419.19	55.23
32 35 16 00-0025	LF	12' High x 8" Thick Precast Concrete Sound Walls	448.89	57.81

32 35 16 00-0026 Redwood Top (32 35 16 00-0001)

32 35 16 00-0027	LF	2" x 6" Redwood, Construction Grade/Rough	6.35	1.44
32 35 16 00-0028	LF	2" x 8" Redwood, Construction Grade/Rough	7.31	1.87
32 35 16 00-0029	LF	2" x 10" Redwood, Construction Grade/Rough	11.31	2.31
32 35 16 00-0030	LF	2" x 12" Redwood, Construction Grade/Rough	13.65	2.88
32 35 16 00-0031	LF	2" x 6" Redwood, Con Heart/Smooth	7.82	1.44
32 35 16 00-0032	LF	2" x 8" Redwood, Con Heart/Smooth	11.32	1.87
32 35 16 00-0033	LF	2" x 10" Redwood, Con Heart/Smooth	15.03	2.31
32 35 16 00-0034	LF	2" x 12" Redwood, Con Heart/Smooth	18.07	2.88

32 39 Manufactured Site Specialties (32 30)

Note: Excludes core drilling (where needed), augering, concrete footing and compaction See CSI section 02 41 19 13-0081 for concrete core drilling, 02 41 19 13-0219 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.

32 39 13 Manufactured Metal Bollards (32 39)**32 39 13 00-0001 Metal Pipe Bollards** (32 39 13)

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.

32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated (32 39 13 00-0001)

32 39 13 00-0003	LF	4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	71.19	14.72
		For Galvanized Steel, Add	7.09	
		For 304 Stainless Steel, Add	56.34	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	141.84	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	94.51	
		For Schedule 80, Add	9.21	
		For Concrete Fill, Add Per LF Of Pipe Bollard	10.34	
32 39 13 00-0004	LF	6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	95.28	14.72
		For Galvanized Steel, Add	11.19	
		For 304 Stainless Steel, Add	88.86	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	141.84	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	94.51	
		For Schedule 80, Add	12.82	
		For Concrete Fill, Add Per LF Of Pipe Bollard	14.59	



Exterior Improvements			32
Site Improvements			32 30
Manufactured Site Specialties			32 39

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0005 LF 8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard, Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	134.44 16.60 131.79 185.28 206.74 18.33 19.47	18.41
32 39 13 00-0006 LF 10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard, Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	177.75 22.71 180.32 214.72 220.88 24.45 23.81	22.09
32 39 13 00-0007 LF 12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard, Add For Schedule 80, Add For Concrete Fill, Add Per LF Of Pipe Bollard	224.65 28.18 223.76 284.66 308.16 30.75 27.77	29.46
32 39 13 00-0008 Cast Bollards (32 39 13 00-0001)		
32 39 13 00-0009 EA 36" Cast Aluminum Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, all colors.	2,005.62	88.36
32 39 13 00-0010 EA 36" Cast Aluminum Removable Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	3,380.98	88.36
32 39 13 00-0011 EA 36" Cast Iron Bollard, Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, all colors.	1,701.54	88.36
32 39 13 00-0012 EA 36" Cast Iron Removable Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	3,085.04	88.36
32 39 23 Manufactured Concrete Bollards (32 39)		
32 39 23 00-0001 Concrete Bollards (32 39 23) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 23 00-0002 Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)		
32 39 23 00-0003 EA 12" x 12" x 30" High Concrete Bollard, Light Media Blast Note: Surface mounted with anchor bolts embedded into grout pockets.	676.95	117.81
32 39 23 00-0004 EA 12" Diameter x 30" High Concrete Bollard, Light Media Blast Note: Surface mounted with anchor bolts embedded into grout pockets.	676.95	117.81
32 39 25 Manufactured Wood Bollards (32 39)		
32 39 25 00-0001 Wood Bollards (32 39 25) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 25 00-0002 Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)		
32 39 25 00-0003 LF 4" x 4", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	25.96 140.27	11.78
32 39 25 00-0004 LF 6" x 6", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	28.50 140.27	11.78
32 39 25 00-0005 LF 8" x 8", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	35.29 220.92	13.26
32 39 25 00-0006 LF 10" x 10", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	49.04 237.90	17.68
32 39 25 00-0007 LF 12" x 12", Pressure Treated Wood Bollard For Each Sleeve For Removable, Lockable Bollard, Add	66.84 339.24	23.56
32 39 27 Manufactured Plastic Bollards (32 39)		
32 39 27 00-0001 Plastic Bollards (32 39 27) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.		
32 39 27 00-0002 Recycled Plastic Bollards (32 39 27 00-0001)		
32 39 27 00-0003 EA 6" x 6" x 33" Surface Mounted Recycled Plastic Bollard Note: Includes anchor bolts.	378.46	58.90
32 39 27 00-0004 EA 6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard.....	610.51	58.90
32 39 27 00-0005 Plastic Bollard Covers (32 39 27 00-0001)		
32 39 27 00-0006 EA 4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe For Reflective Tape, Add	93.95 10.94	12.52
32 39 27 00-0007 EA 6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe For Reflective Tape, Add	101.54 10.94	13.77
32 39 27 00-0008 EA 3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe For Reflective Tape, Add	128.41 10.94	12.52

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 27 00-0009 EA 3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe.....	128.41	12.52
For Reflective Tape, Add	10.94	
32 39 27 00-0010 EA 3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe.....	144.50	12.52
For Reflective Tape, Add	10.94	
32 39 27 00-0011 EA 4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe.....	128.41	12.52
For Reflective Tape, Add	10.94	
32 39 27 00-0012 EA 4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe.....	130.71	12.52
For Reflective Tape, Add	10.94	
32 39 27 00-0013 EA 5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe.....	128.41	12.52
For Reflective Tape, Add	10.94	
32 39 27 00-0014 EA 5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe.....	130.71	12.52
For Reflective Tape, Add	10.94	
32 39 27 00-0015 EA 5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe.....	183.56	12.52
For Reflective Tape, Add	10.94	
32 39 27 00-0016 EA 6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	130.91	13.77
For Reflective Tape, Add	10.94	
32 39 27 00-0017 EA 6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	167.68	13.77
For Reflective Tape, Add	10.94	
32 39 27 00-0018 EA 6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	191.15	13.77
For Reflective Tape, Add	10.94	
32 39 27 00-0019 EA 7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	161.00	15.03
For Reflective Tape, Add	10.94	
32 39 27 00-0020 EA 8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe.....	174.78	15.03
For Reflective Tape, Add	10.94	
32 39 27 00-0021 EA 8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe.....	174.78	15.03
For Reflective Tape, Add	10.94	
32 39 27 00-0022 EA 10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe.....	236.84	15.03
For Reflective Tape, Add	10.94	

32 39 29 Manufactured Stone Bollards (32 39)

32 39 29 00-0001	Stone Bollards (32 39 29)		
See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.			
32 39 29 00-0002	Granite Bollards (32 39 29 00-0001)		
32 39 29 00-0003 EA 16" x 16" x 30" Granite Bollard, Smooth Matt Finish.....	1,871.81	147.27	
Note: Surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0004 EA 16" x 16" x 54" Granite Bollard, Smooth Matt Finish.....	2,362.44	206.17	
Note: Surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0005 EA 12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top.....	1,137.66	147.27	
Note: Surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0006 EA 12" Diameter x 18" Granite Bollard, Smooth Matt Finish.....	1,726.88	117.81	
Note: Flat Top, surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0007 EA 24" x 24" x 20" Granite Bollard, Octagonal Cross Section.....	2,601.55	117.81	
Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.			

32 80 Irrigation (32)**32 84 Planting Irrigation (32 80)****32 84 13 Drip Irrigation (32 84)**

32 84 13 00-0001	Drip Emitter Irrigation Devices (32 84 13)		
32 84 13 00-0002	Drip Emitter Irrigation Valves (32 84 13 00-0001)		
32 84 13 00-0003 EA 1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050).....	54.61	13.54	
32 84 13 00-0004 EA 1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100).....	82.13	13.54	
32 84 13 00-0005 EA 3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075).....	80.21	13.54	
32 84 13 00-0006 EA 3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS).....	106.07	13.54	
32 84 13 00-0007	Drip Emitter Irrigation Filters (32 84 13 00-0001)		
32 84 13 00-0008 EA 3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075).....	160.72	13.54	
32 84 13 00-0009 EA 1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100).....	162.14	13.54	
32 84 13 00-0010 EA 3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX).....	66.63	13.54	
32 84 13 00-0011 EA 1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX).....	67.77	13.54	
32 84 13 00-0012 EA 1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100).....	173.96	13.54	
32 84 13 00-0013 EA 3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY).....	83.74	13.54	
32 84 13 00-0014 EA 1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY).....	92.66	13.54	
32 84 13 00-0015	Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)		
32 84 13 00-0016 EA 3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075).....	65.47	13.54	
32 84 13 00-0017 EA 3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075).....	65.47	13.54	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0018	EA		3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075).....	65.47	13.54
32 84 13 00-0019	EA		1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100).....	74.85	13.54
32 84 13 00-0020			Drip Emitter Irrigation Tubing (32 84 13 00-0001) Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.		
32 84 13 00-0021	LF		1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100).....	4.89	1.90
32 84 13 00-0022	LF		1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100).....	4.71	2.17
32 84 13 00-0023	LF		1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100).....	3.99	1.90
			For Shallow Trenching And Backfill By Hand, Add	7.76	
32 84 13 00-0024	LF		1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100).....	4.66	2.17
			For Shallow Trenching And Backfill By Hand, Add	8.40	
32 84 13 00-0025			Drip Emitter Irrigation Fittings (32 84 13 00-0001)		
32 84 13 00-0026	EA		1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN).....	3.56	
32 84 13 00-0027	EA		1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL).....	3.60	
32 84 13 00-0028	EA		1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE).....	3.65	
32 84 13 00-0029	EA		1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025).....	3.81	
32 84 13 00-0030	EA		1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX).....	3.54	
32 84 13 00-0031	EA		17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP).....	3.73	
			For Compression Fitting, Add	0.34	
32 84 13 00-0032	EA		17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW).....	3.83	
			For Compression Fitting, Add	0.44	
32 84 13 00-0033	EA		17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE).....	3.88	
			For Compression Fitting, Add	0.49	
32 84 13 00-0034	EA		17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050).....	3.90	
			For Compression Fitting, Add	0.51	
32 84 13 00-0035	EA		17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS).....	4.11	
			For Compression Fitting, Add	0.72	
32 84 13 00-0036	EA		1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP).....	4.34	
32 84 13 00-0037	EA		12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND).....	2.14	
32 84 13 00-0038			Drip Emitters (32 84 13 00-0001)		
32 84 13 00-0039	EA		0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC).....	7.29	
32 84 13 00-0040	EA		5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24).....	8.20	
32 84 13 00-0041	EA		0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056).....	16.59	
32 84 13 00-0042			Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)		
32 84 13 00-0043	EA		Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK).....	28.49	12.19
32 84 13 00-0044	EA		Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK).....	28.54	12.19
32 84 13 00-0045	EA		12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL).....	31.05	12.19
32 84 13 00-0046	EA		24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL).....	31.32	12.19
32 84 13 00-0047	EA		4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL).....	44.87	15.98
			Note: Includes nozzle.		
32 84 13 00-0048	EA		6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL).....	48.11	15.98
			Note: Includes nozzle.		
32 84 13 00-0049	EA		12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL).....	47.60	15.98
			Note: Includes nozzle.		
32 84 13 00-0050			Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001) Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051	LF		0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield).....	5.39	2.37
32 84 23			Underground Sprinklers (32 84)		
32 84 23 00-0001			Sprinkler Heads (32 84 23)		
32 84 23 00-0002			Spray Sprinkler Heads (32 84 23 00-0001) Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003	EA		2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P).....	39.78	14.96
			For Rotary Nozzle, Add	3.25	
32 84 23 00-0004	EA		4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P).....	37.95	14.96
			For Rotary Nozzle, Add	3.25	
32 84 23 00-0005	EA		6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P).....	44.76	14.96
			For Rotary Nozzle, Add	3.25	
32 84 23 00-0006	EA		12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P).....	50.46	14.96
			For Rotary Nozzle, Add	3.25	
32 84 23 00-0007	EA		4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM).....	40.51	14.96
			For Rotary Nozzle, Add	3.25	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0008	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	50.10	14.96
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0009	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	54.71	14.96
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0010	EA	4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)	43.24	14.96
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0011	EA	6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)	51.98	14.96
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0012	EA	12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)	56.29	14.96
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0013	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)	44.33	14.96
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0014	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)	57.75	14.96
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0015	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)	62.00	14.96
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0016	EA	Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)	34.36	14.96
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0017	EA	Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	38.63	14.96
32 84 23 00-0018		Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001) Note: Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0019		1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC)	53.26	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0021	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)	54.77	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0022		3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC)	49.61	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0024	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC)	66.00	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0025	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS)	52.65	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0026	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS)	68.43	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0027	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR)	53.86	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0028	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR)	56.29	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0029	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR)	72.07	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0030	EA	12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR)	81.79	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0031	EA	Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS)	55.99	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0032	EA	Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR)	65.70	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0033		1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034	EA	4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC)	88.77	14.96
		<i>For Non-Potable Cover, Add</i>	2.00	
		<i>For Stainless Steel Riser, Add</i>	9.00	
		<i>For Stainless Steel Riser And High Speed Rotor, Add</i>	44.68	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0035			1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036	EA		5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005)	123.98	14.96
			For Non-Potable Cover, Add	2.00	
			For Stainless Steel Riser, Add	9.00	
32 84 23 00-0037			Impact-Drive Sprinkler Heads (32 84 23 00-0001) Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038	EA		1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08).....	71.77	14.96
			For Non-Potable Cover, Add	2.00	
32 84 23 00-0039	EA		1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	57.20	14.96
32 84 23 00-0040	EA		3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB).....	105.74	14.96
32 84 23 00-0041			Electric Remote Control Irrigation Valves (32 84 23)		
32 84 23 00-0042			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0043	EA		3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV)	167.70	62.36
32 84 23 00-0044	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV)	167.70	62.36
32 84 23 00-0045	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS).....	185.52	71.08
32 84 23 00-0046	EA		1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA).....	168.91	62.36
32 84 23 00-0047			0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0048	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF).....	168.91	62.36
32 84 23 00-0049	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS)	187.34	71.08
32 84 23 00-0050	EA		1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	188.55	71.08
32 84 23 00-0051			0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041) Note: 20 to 200 PSI.		
32 84 23 00-0052	EA		1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB)	266.04	62.36
32 84 23 00-0053	EA		1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB)	308.53	62.36
32 84 23 00-0054	EA		2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB)	363.16	62.36
32 84 23 00-0055			5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA		1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D).....	374.40	70.08
32 84 23 00-0057	EA		1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D).....	416.89	70.08
32 84 23 00-0058	EA		2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D).....	471.53	70.08
32 84 23 00-0059			20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA		1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D).....	435.11	70.08
32 84 23 00-0061	EA		1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D).....	477.60	70.08
32 84 23 00-0062	EA		2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D).....	532.23	70.08
32 84 23 00-0063			0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA		1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B)	386.89	62.36
32 84 23 00-0065	EA		1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B)	582.25	62.36
32 84 23 00-0066	EA		2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B)	599.91	62.36
32 84 23 00-0067	EA		3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B)	1,390.09	84.17

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
32 84 23 00-0068		5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.			
32 84 23 00-0069	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP)	361.23		70.08
32 84 23 00-0070	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP)	419.32		70.08
32 84 23 00-0071	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP)	482.39		70.08
32 84 23 00-0072	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP)	565.44		70.08
32 84 23 00-0073		0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.			
32 84 23 00-0074	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS)	470.42		70.08
32 84 23 00-0075	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS)	702.20		70.08
32 84 23 00-0076	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS)	722.07		70.08
32 84 23 00-0077	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS)	1,479.21		70.08
32 84 23 00-0078		0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.			
32 84 23 00-0079	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B-ACCU-SYNC-ADJ)	475.19		62.36
32 84 23 00-0080	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B-ACCU-SYNC-ADJ)	670.54		62.36
32 84 23 00-0081	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B-ACCU-SYNC-ADJ)	688.20		62.36
32 84 23 00-0082	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B-ACCU-SYNC-ADJ)	1,478.39		84.17
32 84 23 00-0083		5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.			
32 84 23 00-0084	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D)	452.29		70.08
32 84 23 00-0085	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D)	510.38		70.08
32 84 23 00-0086	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D)	573.45		70.08
32 84 23 00-0087	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D)	656.49		70.08
32 84 23 00-0088		0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.			
32 84 23 00-0089	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ)	558.72		70.08
32 84 23 00-0090	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ)	790.50		70.08
32 84 23 00-0091	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ)	810.36		70.08
32 84 23 00-0092	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ)	1,567.50		70.08
32 84 23 00-0093		Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)			
32 84 23 00-0094	EA	Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL)	140.94		
32 84 23 00-0095		Remote Control Valve Assemblies (32 84 23 00-0041) Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.			
32 84 23 00-0096	EA	1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	589.95		155.87
32 84 23 00-0097	EA	1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	632.44		155.87
32 84 23 00-0098	EA	2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	687.07		155.87



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0099	EA		1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	650.65	155.87
32 84 23 00-0100	EA		1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	693.14	155.87
32 84 23 00-0101	EA		2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	747.78	155.87
32 84 23 00-0102	EA		1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	667.83	155.87
32 84 23 00-0103	EA		1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	788.99	155.87
32 84 23 00-0104	EA		2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12) Note: Purple components for use with recycled water	872.04	155.87
32 84 23 00-0105 Irrigation Valve Boxes (32 84 23)					
Note: Includes lid.					
32 84 23 00-0106	EA		6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND)	104.51	44.89
32 84 23 00-0107	EA		7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND)	118.85	44.89
32 84 23 00-0108	EA		10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	155.97	59.10
32 84 23 00-0109	EA		21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	270.61	86.29
32 84 23 00-0110	EA		21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH)	276.06	86.29
32 84 23 00-0111	EA		26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB)	315.20	86.29
32 84 23 00-0112	EA		26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	319.86	86.29
32 84 23 00-0113	EA		33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH)	543.51	86.29
32 84 23 00-0114	EA		40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH)	833.18	86.29
32 84 23 00-0115	EA		Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid.....	488.34	144.01
For 12" Extension, Add				105.80	
32 84 23 00-0116	EA		Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid	772.91	144.01
For 12" Extension, Add				105.80	
32 84 23 00-0117	EA		12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....	221.17	74.82
32 84 23 00-0118	EA		15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....	317.66	86.29
32 84 23 00-0119	EA		10" Round Irrigation Valve Box With Lid (Carson 910-10).....	171.14	59.10
32 84 23 00-0120 Irrigation Controllers (32 84 23)					
See CSI section 27 15 13 00-0256 for low voltage wiring.					
32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)					
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)					
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)					
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)					
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)					
32 84 23 00-0126	EA		4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	382.99	38.43
32 84 23 00-0127	EA		7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	535.39	38.43
32 84 23 00-0128	EA		10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	687.80	38.43
32 84 23 00-0129	EA		13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	840.20	38.43
32 84 23 00-0130	EA		16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	954.18	38.43
32 84 23 00-0131	EA		19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	1,111.38	38.43
32 84 23 00-0132	EA		22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	1,268.59	38.43
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)					
32 84 23 00-0134	EA		4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	444.87	38.43
32 84 23 00-0135	EA		7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	597.27	38.43
32 84 23 00-0136	EA		10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	749.68	38.43
32 84 23 00-0137	EA		13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	902.08	38.43
32 84 23 00-0138	EA		16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,016.06	38.43
32 84 23 00-0139	EA		19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,173.26	38.43
32 84 23 00-0140	EA		22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,330.47	38.43
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0123)					
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)					
32 84 23 00-0143	EA		4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	597.94	38.43
32 84 23 00-0144	EA		7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	750.35	38.43
32 84 23 00-0145	EA		10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	902.75	38.43

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0146	EA	13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,055.16	38.43
32 84 23 00-0147	EA	16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,169.13	38.43
32 84 23 00-0148	EA	19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,326.34	38.43
32 84 23 00-0149	EA	22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,483.54	38.43
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)				
32 84 23 00-0151	EA	4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	644.31	38.43
32 84 23 00-0152	EA	7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	796.71	38.43
32 84 23 00-0153	EA	10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	949.12	38.43
32 84 23 00-0154	EA	13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,101.52	38.43
32 84 23 00-0155	EA	16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,215.50	38.43
32 84 23 00-0156	EA	19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,372.70	38.43
32 84 23 00-0157	EA	22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,529.91	38.43
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)				
32 84 23 00-0159	EA	3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3)..... Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.	157.20	
32 84 23 00-0160	EA	6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6)..... Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.	301.50	
32 84 23 00-0161	EA	Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG).....	409.15	
32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)				
32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0162)				
32 84 23 00-0164	EA	12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	898.93	38.43
32 84 23 00-0165	EA	16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,090.43	38.43
32 84 23 00-0166	EA	20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,284.92	38.43
32 84 23 00-0167	EA	24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,476.43	38.43
32 84 23 00-0168	EA	28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,670.92	38.43
32 84 23 00-0169	EA	32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,862.40	38.43
32 84 23 00-0170	EA	36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,056.90	38.43
32 84 23 00-0171	EA	40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,248.40	38.43
32 84 23 00-0172	EA	44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,442.90	38.43
32 84 23 00-0173	EA	48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,634.39	38.43
32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)				
32 84 23 00-0175	EA	8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	887.51	38.43
32 84 23 00-0176	EA	12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,078.99	38.43
32 84 23 00-0177	EA	16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,273.49	38.43
32 84 23 00-0178	EA	20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,464.98	38.43
32 84 23 00-0179	EA	24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,659.49	38.43
32 84 23 00-0180	EA	28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,850.98	38.43
32 84 23 00-0181	EA	32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,045.47	38.43
32 84 23 00-0182	EA	36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,236.97	38.43
32 84 23 00-0183	EA	40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,431.47	38.43
32 84 23 00-0184	EA	44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,622.97	38.43
32 84 23 00-0185	EA	48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,817.46	38.43
32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)				
32 84 23 00-0187	EA	Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	643.76	
32 84 23 00-0188	EA	Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMPED + LXMM)..... Note: Excludes concrete foundation.	1,490.10	
32 84 23 00-0189	EA	Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	1,401.54	
32 84 23 00-0190	EA	Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS)..... Note: Excludes concrete foundation.	3,110.70	
32 84 23 00-0191	EA	4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4)..... Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.	191.49	
32 84 23 00-0192	EA	8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8)..... Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.	385.99	
32 84 23 00-0193	EA	12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12)..... Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.	598.12	
32 84 23 00-0194	EA	Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	219.40	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0195	Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0196	Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)		
32 84 23 00-0197	EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	430.40	38.43
32 84 23 00-0198	EA 2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	521.34	38.43
32 84 23 00-0199	EA 4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	652.21	38.43
32 84 23 00-0200	Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0195)		
32 84 23 00-0201	EA Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS)	525.19	
32 84 23 00-0202	EA Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL)	111.06	28.82
32 84 23 00-0203	Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0204	EA Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSD-BEX).....	164.80	28.82
32 84 23 00-0205	EA Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC)	331.67	28.82
32 84 23 00-0206	EA Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC)	349.68	28.82
32 84 23 00-0207	EA Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y).....	505.74	28.82
32 84 23 00-0208	Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0209	Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)		
32 84 23 00-0210	Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0209) Note: Includes water resistant cabinet.		
32 84 23 00-0211	EA 50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	2,539.08	38.43
32 84 23 00-0212	EA 125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	3,676.71	38.43
32 84 23 00-0213	EA 200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	4,814.32	38.43
32 84 23 00-0214	Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0215	EA One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF).....	315.39	38.43
32 84 23 00-0216	EA One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF)	400.63	38.43
32 84 23 00-0217	EA Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF)	597.20	38.43
32 84 23 00-0218	EA Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF).....	724.41	38.43
32 84 23 00-0219	EA Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF).....	1,191.65	38.43
32 84 23 00-0220	Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0221	EA 50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD).....	1,896.24	
32 84 23 00-0222	EA 75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	1,137.61	
32 84 23 00-0223	EA Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF).....	238.91	33.63
32 84 23 00-0224	EA Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF)	1,048.91	38.43
32 84 23 00-0225	Calsense Controllers (32 84 23 00-0120)		
32 84 23 00-0226	Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0227	EA 6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6).....	2,960.59	96.06
32 84 23 00-0228	EA 8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8).....	3,821.59	108.07
32 84 23 00-0229	EA 12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12).....	5,249.16	120.08
32 84 23 00-0230	EA 16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16).....	5,777.10	120.08
32 84 23 00-0231	EA 24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24).....	6,831.25	132.09
32 84 23 00-0232	EA 32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32).....	8,247.67	132.09
32 84 23 00-0233	EA 40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40).....	9,340.44	144.10
32 84 23 00-0234	EA 48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48).....	10,460.70	144.10
32 84 23 00-0235	EA Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE)	3,022.56	48.04
32 84 23 00-0236	EA Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE).....	1,266.66	48.04
32 84 23 00-0237	Irrigation Controller Accessories (32 84 23 00-0225)		
32 84 23 00-0238	EA Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1).....	123.62	
32 84 23 00-0239	EA Spare Lock For Enclosures (Calsense PAD)	133.92	
32 84 23 00-0240	EA Hardware And Software For Up To 4 Additional Light Circuits (Calsense L).....	157.94	12.01
32 84 23 00-0241	EA Transformer For Irrigation Controllers (Calsense TR-1)	224.83	48.04
32 84 23 00-0242	EA AC Line Protection For Irrigation Controllers (Calsense TP-110)	624.00	48.04
32 84 23 00-0243	EA Transient Protection Board For Irrigation Controller Stations (Calsense TP-1).....	830.03	48.04
	For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add	365.09	
32 84 23 00-0244	Sensors For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0245	Flow Sensors (32 84 23 00-0244)		
32 84 23 00-0246	EA 1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5)	1,457.51	72.04
	For Flow Meter Replacement Insert Only, Deduct	-1,066.44	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0247 EA 2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2) <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,509.02 -1,117.95	72.04
32 84 23 00-0248 EA 3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3) <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,560.53 -1,169.46	72.04
32 84 23 00-0249 EA 1" Brass Tee Mounted Flow Meter (Calsense FM 1B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,724.44 -1,332.91	96.06
32 84 23 00-0250 EA 1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,853.20 -1,461.67	96.06
32 84 23 00-0251 EA 1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,904.71 -1,513.18	96.06
32 84 23 00-0252 EA 2" Brass Tee Mounted Flow Meter (Calsense FM 2B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	2,239.50 -1,719.94	96.06
32 84 23 00-0253 EA 2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX)..... Note: For 4" and larger pipe. Excludes pipe saddle. <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,744.26 -1,224.70	48.04
32 84 23 00-0254 Moisture Sensors (32 84 23 00-0244)		
32 84 23 00-0255 EA Soil Moisture Sensor (Calsense 1000-S).....	612.86	36.03
32 84 23 00-0256 Weather Sensors (32 84 23 00-0244)		
32 84 23 00-0257 EA Wind Gage, Irrigation Weather Sensor (Calsense WG-1).....	1,672.93	96.06
32 84 23 00-0258 EA Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1).....	1,916.58	192.12
32 84 23 00-0259 EA ET Gage, Irrigation Weather Sensor (Calsense ETG).....	3,829.25	144.10
32 84 23 00-0260 Weather Sensor Accessories (32 84 23 00-0244)		
32 84 23 00-0261 EA Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C).....	1,126.19	
32 84 23 00-0262 EA Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB)	2,130.56	
32 84 23 00-0263 EA Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE).....	1,126.19	48.04
32 84 23 00-0264 EA Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE).....	2,610.48	48.04
32 84 23 00-0265 Antennas For Irrigation Controllers (32 84 23 00-0225) Note: Excludes antenna cable.		
32 84 23 00-0266 EA Local Radio Dome Antenna (Calsense LR-DOME)	585.37	48.04
32 84 23 00-0267 EA Local Radio Stick Antenna (Calsense LR-STICK)	855.78	48.04
32 84 23 00-0268 EA Local Radio Yagi Antenna (Calsense LR-YAGI)	951.84	96.06
32 84 23 00-0269 EA Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR).....	585.37	48.04
32 84 23 00-0270 EA Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE)	585.37	48.04
32 84 23 00-0271 EA GPRS Stubby Antenna (Calsense GR-STUBBY).....	585.37	48.04
32 84 23 00-0272 EA GPRS Stick Antenna (Calsense GR-STICK)	855.78	48.04
32 84 23 00-0273 EA Spread Spectrum Dome Antenna (Calsense SR-DOME).....	585.37	48.04
32 84 23 00-0274 EA Spread Spectrum Stick Antenna (Calsense SR-STICK).....	855.78	48.04
32 84 23 00-0275 EA Spread Spectrum Yagi Antenna (Calsense SR-YAGI)	951.84	96.06
32 84 23 00-0276 EA Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR).....	585.37	48.04
32 84 23 00-0277 EA Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE)	585.37	48.04
32 84 23 00-0278 EA Spread Spectrum Stubby Antenna (Calsense SR-STUBBY).....	585.37	48.04
32 84 23 00-0279 EA WiFi Stubby Antenna (Calsense WEN-STUBBY).....	585.37	48.04
32 84 23 00-0280 LF Antenna Cable With End Connectors (Calsense LMR-400-DB).....	16.10	0.57
32 84 23 00-0281 EA Surge Protection Device For Antenna (Calsense ANT-PROT).....	588.86	24.02
32 84 23 00-0282 EA 5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIPS).....	958.79	48.04
32 84 23 00-0283 EA 3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM).....	836.98	
32 84 23 00-0284 EA Local Radio Frequency Filter (Calsense LR-FILTER).....	1,184.65	
32 84 23 00-0285 EA Spread Spectrum Frequency Filter (Calsense SR-FILTER)	875.61	
32 84 23 00-0286 Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0287 EA 15 Amperes, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER).....	530.40	72.04
32 84 23 00-0288 EA Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX)	1,293.70	120.08
32 84 23 00-0289 EA Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)..... Note: Includes GFI and receptacle.	1,448.10	48.04
32 84 23 00-0290 EA Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1)..... Note: Includes factory installed transient protection board and AC line protection.	1,733.12	36.03
32 84 23 00-0291 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE)..... Note: Includes factory installed transient protection board and AC line protection.	5,443.34	36.03
32 84 23 00-0292 EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R)..... Note: Includes factory installed transient protection board, AC line protection and dome antenna.	6,149.80	36.03
32 84 23 00-0293 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D)..... Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.	8,920.09	72.04
32 84 23 00-0294 EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R)	9,350.28	72.04
32 84 23 00-0295 EA Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM)	304.96	
32 84 23 00-0296 EA Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED).....	986.28	
32 84 23 00-0297 Central Computer For Irrigation Control Systems (32 84 23 00-0225)		



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0298	EA		Central Computer For Irrigation Control Systems (Calsense COMP-2).....6,862.13 Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.		
32 84 23 00-0299	EA		Command Center Water Management Software For Central Computer (Calsense COMM-1).....12,153.24		
32 84 23 00-0300	EA		Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5).....2,330.71 Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0301	EA		>5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10).....4,594.16 Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		
32 84 23 00-0302	EA		Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2) 7,398.80		
32 84 23 00-0303	EA		GPRS Radio For Use At Central Computer (Calsense DTR-G) 4,424.87		
32 84 23 00-0304			Data Access Service (32 84 23 00-0225)		
32 84 23 00-0305	EA		1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN).....37.46 Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0306	EA		1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR).....409.71 Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307	EA		5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR).....1,755.90 Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308	EA		1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M).....152.18 Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0309	EA		1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M).....1,638.84 Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310	EA		5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M).....7,023.60 Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0311			Communication Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0312	EA		FCC License Fee (Calsense).....247.04		
32 84 23 00-0313	EA		P.C.I.A. And/or A.P.C.O. Fee (Calsense) 481.16 Note: Per frequency or frequency pair.		
32 84 23 00-0314	EA		Hardware Communication Option For Irrigation Controllers (Calsense M) 1,357.90 Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.		
32 84 23 00-0315	EA		Phone Line Communication Option For Irrigation Controllers (Calsense R).....1,428.13		
32 84 23 00-0316	EA		Ethernet Communication Option For Irrigation Controllers (Calsense EN) 1,428.13		
32 84 23 00-0317	EA		WiFi Communication Option For Irrigation Controllers (Calsense WEN).....2,926.50		
32 84 23 00-0318	EA		Local Radio Communication Option For Irrigation Controllers (Calsense LR).....3,722.51		
32 84 23 00-0319	EA		Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR) 3,722.51		
32 84 23 00-0320	EA		GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR).....3,722.51		
32 84 23 00-0321	EA		Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM) 11,940.12		
32 84 23 00-0322	EA		Communication Hub For Irrigation Controllers (Calsense HUB) 4,595.82 Note: Accepts up to two communication options. Excludes communication options.		
32 84 23 00-0323			Retrofit Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0324			Weather Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0325	EA		Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO) 1,816.84		
32 84 23 00-0326	EA		Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO) 1,816.84		
32 84 23 00-0327	EA		Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO) 1,816.84		
32 84 23 00-0328	EA		Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO) 1,816.84		
32 84 23 00-0329			Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0330	EA		Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO) 1,910.49		
32 84 23 00-0331	EA		Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO).....2,261.67		
32 84 23 00-0332	EA		Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO).....3,631.27		
32 84 23 00-0333			Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0334	EA		Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO) 2,144.61		
32 84 23 00-0335	EA		Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO).....4,532.63		
32 84 23 00-0336	EA		Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO).....5,890.53		
32 84 23 00-0337			Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0338	EA		Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-Retro).....2,144.61		
32 84 23 00-0339	EA		Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR- RETRO).....4,532.63		
32 84 23 00-0340	EA		Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO) 5,890.53		
32 84 23 00-0341			Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0342	EA		Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro).....2,144.61		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0343 EA Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO).....	2,261.67	
32 84 23 00-0344 EA Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO)	3,631.27	
32 84 23 00-0345 GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0346 EA Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	2,144.61	
32 84 23 00-0347 EA Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO).....	4,532.63	
32 84 23 00-0348 EA Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO).....	5,890.53	
32 84 23 00-0349 Radio Remote Units For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0350 EA Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN).....	2,156.32	
32 84 23 00-0351 EA Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe).....	463.56	
Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.		
32 84 23 00-0352 EA Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG)	199.00	
32 84 23 00-0353 EA Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT)	351.79	
32 84 23 00-0354 EA Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT).....	223.02	12.01
Note: Excludes antenna cable.		
32 84 23 00-0355 EA Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP).....	433.73	12.01
Note: Excludes antenna cable.		
32 84 23 00-0356 EA Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome).....	468.85	12.01
Note: Excludes antenna cable.		
32 84 23 00-0357 Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120)		
Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358 EA 12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS)	5,043.86	216.14
32 84 23 00-0359 EA 24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS)	5,319.18	228.15
32 84 23 00-0360 EA 40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS)	7,398.41	240.16
32 84 23 00-0361 LEIT Controllers (32 84 23 00-0120)		
32 84 23 00-0362 LEIT X Series Irrigation Controller (32 84 23 00-0361)		
32 84 23 00-0363 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	4,748.02	38.43
32 84 23 00-0364 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	5,210.33	38.43
32 84 23 00-0365 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	5,961.44	38.43
32 84 23 00-0366 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	6,712.54	38.43
32 84 23 00-0367 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	7,242.11	38.43
32 84 23 00-0368 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	7,771.66	38.43
32 84 23 00-0369 LEIT X Series Irrigation Controller Assembly (32 84 23 00-0361)		
Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370 EA 10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,356.51	200.28
32 84 23 00-0371 EA 12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,818.83	200.28
32 84 23 00-0372 EA 16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	6,569.93	200.28
32 84 23 00-0373 EA 20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,321.04	200.28
32 84 23 00-0374 EA 24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,850.59	200.28
32 84 23 00-0375 EA 28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	8,380.16	200.28
32 84 23 00-0376 Enclosure For LEIT Controller Assembly (32 84 23 00-0361)		
Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377 EA 12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch.....	3,645.79	279.38
Note: For LEIT Controller		
32 84 23 00-0378 Hunter Controllers (32 84 23 00-0120)		
32 84 23 00-0379 Hunter XC Hybrid Controller (32 84 23 00-0378)		
Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380 EA 6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS).....	779.13	96.06
32 84 23 00-0381 EA 12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS).....	991.59	120.08
32 84 23 00-0382 DC Latching Solenoid (32 84 23 00-0120)		
32 84 23 00-0383 EA DC Latching Solenoid (Micro Power Solenoid) For Non-LEIT Controllers	43.09	
Note: As per manufacture of valve.		
32 84 23 00-0384 EA DC Solenoid For LEIT Controllers (DIG S-305DC)	68.04	
32 84 23 00-0385 Irrigation Controller Enclosure Cabinet (32 84 23 00-0120)		
Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0386 EA 35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,455.54	528.03
32 84 23 00-0387 EA 35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,728.23	576.03
32 84 23 00-0388 EA 35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	4,122.51	624.04
32 84 23 00-0389 EA 35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet, ...	3,455.58	528.03
32 84 23 00-0390 EA 35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	3,728.23	576.03
32 84 23 00-0391 EA 35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	4,122.51	624.04
32 84 23 00-0392 EA 35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,303.62	528.03
32 84 23 00-0393 EA 35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,682.28	576.03
32 84 23 00-0394 EA 35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	5,076.55	624.04
32 84 23 00-0395 Irrigation Valves (32 84 23)		
32 84 23 00-0396 Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0395) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0397 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series).....	927.29	51.45
32 84 23 00-0398 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,100.27	62.83
32 84 23 00-0399 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,662.38	73.12
32 84 23 00-0400 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,757.70	83.96
32 84 23 00-0401 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	2,109.15	108.33
32 84 23 00-0402 Brass Quick-Coupling Irrigation Valves (32 84 23 00-0395)		
32 84 23 00-0403 EA 3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC).....	177.46	44.89
For Valve Key, Add	44.62	
32 84 23 00-0404 EA 3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC).....	182.62	44.89
For Locking Cover, Add	25.00	
For Valve Key, Add	44.62	
32 84 23 00-0405 EA 1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	239.38	44.89
For Valve Key, Add	114.12	
32 84 23 00-0406 EA 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	260.02	44.89
For Valve Key, Add	114.12	
32 84 23 00-0407 EA 1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP)	250.30	44.89
32 84 23 00-0408 EA 1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	260.02	44.89
32 84 23 00-0409 Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0395) Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		
32 84 23 00-0410 EA 3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	321.82	37.91
32 84 23 00-0411 EA 1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	460.33	43.33
32 84 23 00-0412 EA 1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	833.24	50.10
32 84 23 00-0413 EA 1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	1,014.74	55.52
32 84 23 00-0414 EA 2" Anti-Siphon Pressure Type Vacuum Breaker.....	1,024.20	67.70
32 84 23 00-0415 Aluminum Cam And Groove Adapter (32 84 23 00-0395)		
32 84 23 00-0416 EA 1-1/2" Diameter Type A Aluminum Cam And Groove Male Adapter x 1-1/2" Diameter NPT Female Pipe Thread.....	47.96	
32 84 23 00-0417 EA 2" Diameter Type A Aluminum Cam And Groove Male Adapter x 2" Diameter NPT Female Pipe Thread.....	50.64	
32 84 23 00-0418 EA 1-1/2" Diameter Type F Aluminum Cam And Groove Male Adapter x 1-1/2" Diameter NPT Male Pipe Thread.....	49.30	
32 84 23 00-0419 EA 2" Diameter Type F Aluminum Cam And Groove Male Adapter x 2" Diameter NPT Male Pipe Thread	53.14	
32 84 23 00-0420 Manual Sprinkler Control Valves (32 84 23 00-0395)		
32 84 23 00-0421 EA 3/4" Manual Sprinkler Control Valves, With Union.....	112.21	36.56
32 84 23 00-0422 EA 1" Manual Sprinkler Control Valves, With Union.....	136.73	39.26
32 84 23 00-0423 EA 1-1/4" Manual Sprinkler Control Valves, With Union.....	208.90	49.70
32 84 23 00-0424 EA 1-1/2" Manual Sprinkler Control Valves, With Union.....	247.53	57.28
32 84 23 00-0425 EA 2" Manual Sprinkler Control Valves, With Union.....	331.36	67.70
32 84 23 00-0426 Irrigation Piping (32 84 23)		
32 84 23 00-0427 Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0426) Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
32 84 23 00-0428 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0427)		
32 84 23 00-0429 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.57	1.25
For >1,000, Deduct	-0.18	
32 84 23 00-0430 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.37	1.55
For >1,000, Deduct	-0.22	
32 84 23 00-0431 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.25	1.87
For >1,000, Deduct	-0.26	
32 84 23 00-0432 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.93	2.37
For >1,000, Deduct	-0.35	
32 84 23 00-0433 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	8.67	2.97
For >1,000, Deduct	-0.43	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0434	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	10.97	3.46
		<i>For >1,000, Deduct</i>	-0.55	
32 84 23 00-0435	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	15.08	4.99
		<i>For >1,000, Deduct</i>	-0.75	
32 84 23 00-0436	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	19.61	6.24
		<i>For >1,000, Deduct</i>	-0.98	
32 84 23 00-0437	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	27.69	7.79
		<i>For >1,000, Deduct</i>	-1.38	
32 84 23 00-0438		Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0427)		
32 84 23 00-0439	LF	3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.14	1.55
		<i>For >1,000, Deduct</i>	-0.21	
32 84 23 00-0440	LF	1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.87	1.87
		<i>For >1,000, Deduct</i>	-0.24	
32 84 23 00-0441	LF	1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	6.67	2.37
		<i>For >1,000, Deduct</i>	-0.33	
32 84 23 00-0442	LF	2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	8.45	2.97
		<i>For >1,000, Deduct</i>	-0.42	
32 84 23 00-0443	LF	2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	10.64	3.46
		<i>For >1,000, Deduct</i>	-0.53	
32 84 23 00-0444	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.95	4.99
		<i>For >1,000, Deduct</i>	-0.75	
32 84 23 00-0445	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	20.31	6.24
		<i>For >1,000, Deduct</i>	-1.02	
32 84 23 00-0446	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	32.09	7.79
		<i>For >1,000, Deduct</i>	-1.60	
32 84 23 00-0447		Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0427)		
32 84 23 00-0448	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.33	1.55
		<i>For >1,000, Deduct</i>	-0.22	
32 84 23 00-0449	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.13	1.87
		<i>For >1,000, Deduct</i>	-0.26	
32 84 23 00-0450	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	7.15	2.37
		<i>For >1,000, Deduct</i>	-0.36	
32 84 23 00-0451	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	9.27	2.97
		<i>For >1,000, Deduct</i>	-0.46	
32 84 23 00-0452	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	11.93	3.46
		<i>For >1,000, Deduct</i>	-0.60	
32 84 23 00-0453	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	15.08	4.99
		<i>For >1,000, Deduct</i>	-0.75	
32 84 23 00-0454	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	19.61	6.24
		<i>For >1,000, Deduct</i>	-0.98	
32 84 23 00-0455	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	28.12	7.79
		<i>For >1,000, Deduct</i>	-1.41	
32 84 23 00-0456		Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted (32 84 23 00-0426)		
		Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.		
32 84 23 00-0457		Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0456)		
32 84 23 00-0458	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.78	1.55
		<i>For >1,000, Deduct</i>	-0.34	
32 84 23 00-0459	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.67	1.87
		<i>For >1,000, Deduct</i>	-0.38	
32 84 23 00-0460	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	9.35	2.37
		<i>For >1,000, Deduct</i>	-0.47	
32 84 23 00-0461	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	11.09	2.97
		<i>For >1,000, Deduct</i>	-0.55	
32 84 23 00-0462	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	13.39	3.46
		<i>For >1,000, Deduct</i>	-0.67	
32 84 23 00-0463	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	17.50	4.99
		<i>For >1,000, Deduct</i>	-0.88	
32 84 23 00-0464	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	22.02	6.24
		<i>For >1,000, Deduct</i>	-1.10	
32 84 23 00-0465	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	30.10	7.79
		<i>For >1,000, Deduct</i>	-1.51	
32 84 23 00-0466		Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0456)		
32 84 23 00-0467	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.08	1.55
		<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0468	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.96	1.87
		<i>For >1,000, Deduct</i>	-0.40	
32 84 23 00-0469	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	9.64	2.37
		<i>For >1,000, Deduct</i>	-0.48	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0470	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.38 -0.57	2.97
32 84 23 00-0471	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	13.68 -0.68	3.46
32 84 23 00-0472	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	17.79 -0.89	4.99
32 84 23 00-0473	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	22.31 -1.12	6.24
32 84 23 00-0474	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	30.39 -1.52	7.79
32 84 23 00-0475 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0456)					
32 84 23 00-0476	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.36 -0.37	1.55
32 84 23 00-0477	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	8.26 -0.41	1.87
32 84 23 00-0478	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.94 -0.50	2.37
32 84 23 00-0479	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.68 -0.58	2.97
32 84 23 00-0480	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	13.98 -0.70	3.46
32 84 23 00-0481	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	18.08 -0.90	4.99
32 84 23 00-0482	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	22.61 -1.13	6.24
32 84 23 00-0483	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	30.69 -1.53	7.79
32 84 23 00-0484 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0456)					
32 84 23 00-0485	LF		3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.66 -0.33	1.55
32 84 23 00-0486	LF		1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.48 -0.37	1.87
32 84 23 00-0487	LF		1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.37 -0.47	2.37
32 84 23 00-0488	LF		2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.48 -0.57	2.97
32 84 23 00-0489	LF		2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	14.03 -0.70	3.46
32 84 23 00-0490	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	17.37 -0.87	4.99
32 84 23 00-0491	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	22.72 -1.14	6.24
32 84 23 00-0492	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	34.50 -1.73	7.79
32 84 23 00-0493 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0456)					
32 84 23 00-0494	LF		3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.96 -0.35	1.55
32 84 23 00-0495	LF		1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.77 -0.39	1.87
32 84 23 00-0496	LF		1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.66 -0.48	2.37
32 84 23 00-0497	LF		2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.77 -0.59	2.97
32 84 23 00-0498	LF		2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	14.32 -0.72	3.46
32 84 23 00-0499	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	17.66 -0.88	4.99
32 84 23 00-0500	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	23.01 -1.15	6.24
32 84 23 00-0501	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	34.79 -1.74	7.79
32 84 23 00-0502 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0456)					
32 84 23 00-0503	LF		3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.24 -0.36	1.55

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0504	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	8.07	1.87
		<i>For >1,000, Deduct</i>	-0.40	
32 84 23 00-0505	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 124" Of Cover, Backfilled And Compacted.....	9.96	2.37
		<i>For >1,000, Deduct</i>	-0.50	
32 84 23 00-0506	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	12.07	2.97
		<i>For >1,000, Deduct</i>	-0.60	
32 84 23 00-0507	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	14.62	3.46
		<i>For >1,000, Deduct</i>	-0.73	
32 84 23 00-0508	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	17.95	4.99
		<i>For >1,000, Deduct</i>	-0.90	
32 84 23 00-0509	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	23.31	6.24
		<i>For >1,000, Deduct</i>	-1.17	
32 84 23 00-0510	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	35.09	7.79
		<i>For >1,000, Deduct</i>	-1.75	
32 84 23 00-0511 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0456)				
32 84 23 00-0512	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	6.75	1.55
		<i>For >1,000, Deduct</i>	-0.34	
32 84 23 00-0513	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	7.55	1.87
		<i>For >1,000, Deduct</i>	-0.38	
32 84 23 00-0514	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	9.58	2.37
		<i>For >1,000, Deduct</i>	-0.48	
32 84 23 00-0515	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	11.68	2.97
		<i>For >1,000, Deduct</i>	-0.58	
32 84 23 00-0516	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	14.35	3.46
		<i>For >1,000, Deduct</i>	-0.72	
32 84 23 00-0517	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	17.50	4.99
		<i>For >1,000, Deduct</i>	-0.88	
32 84 23 00-0518	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	22.02	6.24
		<i>For >1,000, Deduct</i>	-1.10	
32 84 23 00-0519	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	30.53	7.79
		<i>For >1,000, Deduct</i>	-1.53	
32 84 23 00-0520 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0456)				
32 84 23 00-0521	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	7.05	1.55
		<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0522	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	7.84	1.87
		<i>For >1,000, Deduct</i>	-0.39	
32 84 23 00-0523	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	9.87	2.37
		<i>For >1,000, Deduct</i>	-0.49	
32 84 23 00-0524	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	11.97	2.97
		<i>For >1,000, Deduct</i>	-0.60	
32 84 23 00-0525	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	14.64	3.46
		<i>For >1,000, Deduct</i>	-0.73	
32 84 23 00-0526	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	17.79	4.99
		<i>For >1,000, Deduct</i>	-0.89	
32 84 23 00-0527	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	22.31	6.24
		<i>For >1,000, Deduct</i>	-1.12	
32 84 23 00-0528	LF	6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	30.82	7.79
		<i>For >1,000, Deduct</i>	-1.54	
32 84 23 00-0529 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0456)				
32 84 23 00-0530	LF	3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	7.33	1.55
		<i>For >1,000, Deduct</i>	-0.37	
32 84 23 00-0531	LF	1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	8.14	1.87
		<i>For >1,000, Deduct</i>	-0.41	
32 84 23 00-0532	LF	1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	10.17	2.37
		<i>For >1,000, Deduct</i>	-0.51	
32 84 23 00-0533	LF	2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	12.27	2.97
		<i>For >1,000, Deduct</i>	-0.61	
32 84 23 00-0534	LF	2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	14.94	3.46
		<i>For >1,000, Deduct</i>	-0.75	
32 84 23 00-0535	LF	3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	18.08	4.99
		<i>For >1,000, Deduct</i>	-0.90	
32 84 23 00-0536	LF	4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	22.61	6.24
		<i>For >1,000, Deduct</i>	-1.13	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0537	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted For >1,000, Deduct	31.12 -1.56	7.79
32 84 23 00-0538			Irrigation Riser Piping With Fittings (32 84 23 00-0426)		
32 84 23 00-0539	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	21.19	3.75
32 84 23 00-0540	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	22.77	4.67
32 84 23 00-0541	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	22.65	4.36
32 84 23 00-0542	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	24.62	5.45
32 84 23 00-0543	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	45.42	6.55
32 84 23 00-0544	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	48.20	8.19
32 84 23 00-0545	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	53.33	8.42
32 84 23 00-0546	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	56.91	10.52
32 84 23 00-0547	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	61.26	10.29
32 84 23 00-0548	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	65.62	12.86
32 84 23 00-0549			Irrigation Crossover Piping With Fittings (32 84 23 00-0426) Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0593 for irrigation wiring.		
32 84 23 00-0550			Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench (32 84 23 00-0549)		
32 84 23 00-0551	LF		6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation For >1,000, Deduct	38.72 -1.94	
32 84 23 00-0552	LF		8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation For >1,000, Deduct	53.65 -2.68	
32 84 23 00-0553	LF		10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation For >1,000, Deduct	72.78 -3.64	
32 84 23 00-0554	LF		12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation For >1,000, Deduct	95.21 -4.76	
32 84 23 00-0555			Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench (32 84 23 00-0549)		
32 84 23 00-0556	LF		6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	39.60 -1.98	
32 84 23 00-0557	LF		8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	54.62 -2.73	
32 84 23 00-0558	LF		10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	73.83 -3.69	
32 84 23 00-0559	LF		12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	96.37 -4.82	
32 84 23 00-0560			Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 48" Open Trench (32 84 23 00-0549)		
32 84 23 00-0561	LF		6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation For >1,000, Deduct	40.47 -2.02	
32 84 23 00-0562	LF		8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	55.59 -2.78	
32 84 23 00-0563	LF		10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	74.90 -3.75	
32 84 23 00-0564	LF		12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation For >1,000, Deduct	97.54 -4.88	
32 84 23 00-0565			Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore (32 84 23 00-0549)		
32 84 23 00-0566	LF		6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	102.05 -5.10	
32 84 23 00-0567	LF		8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	129.79 -6.49	
32 84 23 00-0568	LF		10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	155.22 -7.76	
32 84 23 00-0569	LF		12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	183.98 -9.20	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
32 84 23 00-0570		Below Ground Cam Adapter Assembly (32 84 23 00-0426) Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe			
32 84 23 00-0571	EA	Below Ground Cam Adapter Assembly.....	818.36		
		Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.			
32 84 23 00-0572		Above Ground Cam Adapter Assembly (32 84 23 00-0426) Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe			
32 84 23 00-0573	EA	Above Ground Cam Adapter Assembly.....	506.99		
		Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.			
32 84 23 00-0574		Thrust Block (32 84 23 00-0426)			
32 84 23 00-0575	EA	Thrust Block For 1-1/2" Pipe Size And Smaller.....	42.25		
32 84 23 00-0576	EA	Thrust Block For 2" Pipe.....	72.47		
32 84 23 00-0577	EA	Thrust Block For 3" And 4" Pipe.....	102.68		
32 84 23 00-0578	EA	Thrust Block For 6" Pipe.....	163.82		
32 84 23 00-0579	EA	Thrust Block For 8" Pipe.....	232.53		
32 84 23 00-0580		Irrigation Swing Joints (32 84 23)			
32 84 23 00-0581	EA	3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075).....	67.57	24.81	
32 84 23 00-0582	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12).....	76.77	27.71	
32 84 23 00-0583	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS).....	101.05	27.71	
32 84 23 00-0584	EA	1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	52.08	32.34	
		Note: Consists of three threaded 90-degree elbows and 12" threaded pipe.			
32 84 23 00-0585	EA	3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	69.59	43.15	
		Note: Consists of three threaded 90-degree elbows and 12" threaded pipe.			
32 84 23 00-0586	EA	1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	87.53	52.91	
		Note: Consists of three threaded 90-degree elbows and 12" threaded pipe.			
32 84 23 00-0587	EA	1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II.....	74.11	32.85	
		Note: Consists of one threaded 90-degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.			
32 84 23 00-0588	EA	3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II.....	97.98	43.58	
		Note: Consists of one threaded 90-degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.			
32 84 23 00-0589	EA	1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II.....	120.50	53.44	
		Note: Consists of one threaded 90-degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.			
32 84 23 00-0590	EA	1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III.....	41.97	20.12	
		Note: Consists of two street 90-degree elbows.			
32 84 23 00-0591	EA	3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III.....	56.08	26.82	
		Note: Consists of two street 90-degree elbows.			
32 84 23 00-0592	EA	1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III.....	66.64	33.26	
		Note: Consists of two street 90-degree elbows.			
32 84 23 00-0593		Irrigation Control Wire (32 84 23) Note: Excludes excavation and backfill.			
32 84 23 00-0594		18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)			
32 84 23 00-0595	CLF	1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	59.07	18.71	
32 84 23 00-0596	CLF	2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	77.35	21.82	
32 84 23 00-0597	CLF	3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	88.99	24.94	
32 84 23 00-0598	CLF	4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	101.86	28.05	
32 84 23 00-0599	CLF	5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	115.90	31.17	
32 84 23 00-0600	CLF	6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	138.39	34.29	
32 84 23 00-0601	CLF	7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	159.96	37.41	
32 84 23 00-0602	CLF	8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	173.80	40.53	
32 84 23 00-0603	CLF	9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	190.80	43.65	
32 84 23 00-0604	CLF	10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	210.30	46.76	
32 84 23 00-0605	CLF	11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	217.71	49.88	
32 84 23 00-0606	CLF	12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	226.36	53.00	
32 84 23 00-0607	CLF	13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench.....	238.82	56.12	
32 84 23 00-0608		16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)			
32 84 23 00-0609	CLF	1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench.....	62.27	18.71	
32 84 23 00-0610		14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)			
32 84 23 00-0611	CLF	1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench.....	62.28	18.71	
32 84 23 00-0612		12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)			



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0613	CLF	1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	83.44	18.71
32 84 23 00-0614		10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0615	CLF	1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	110.26	18.71
32 84 23 00-0616		Root Watering Systems (32 84 23)		
		Note: Includes swing assembly.		
32 84 23 00-0617	EA	0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401).....	107.80	24.94
		For Root Watering Sand Sock, Add	5.96	
32 84 23 00-0618	EA	0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)	115.84	24.94
		For Root Watering Sand Sock, Add	5.96	
32 84 23 00-0619	EA	0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402).....	107.80	24.94
		For Root Watering Sand Sock, Add	5.96	
32 84 23 00-0620	EA	0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)	115.84	24.94
		For Root Watering Sand Sock, Add	5.96	
32 84 23 00-0621	EA	1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)	115.84	24.94
		For Root Watering Sand Sock, Add	5.96	
32 84 23 00-0622	EA	0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401)	93.61	21.82
		For Root Watering Sand Sock, Add	5.34	
32 84 23 00-0623	EA	0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)	101.32	21.82
		For Root Watering Sand Sock, Add	5.34	
32 84 23 00-0624	EA	0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402)	93.61	21.82
		For Root Watering Sand Sock, Add	5.34	
32 84 23 00-0625	EA	0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)	101.32	21.82
		For Root Watering Sand Sock, Add	5.34	
32 84 23 00-0626	EA	0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401)	63.99	18.71
		For Root Watering Sand Sock, Add	4.73	
32 84 23 00-0627	EA	0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401)	71.33	18.71
		For Root Watering Sand Sock, Add	4.73	

32 90 Planting (32)

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar or cultivated varieties. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation (32 90)

32 91 13 Soil Preparation (32 91)

32 91 13 16 Mulching (32 91 13)

32 91 13 16-0001 Mulch (32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 91 13 16-0002	CY	Pine Bark Nugget Mulch	137.03	
		For Work On Slopes >2.5:1, Add	16.04	
		For >5 To 20, Deduct	-10.86	
		For >20 To 50, Deduct	-16.29	
		For >50, Deduct	-23.14	
32 91 13 16-0003	CY	Hardwood Bark Nugget Mulch	134.75	
		For Work On Slopes >2.5:1, Add	16.04	
		For >5 To 20, Deduct	-10.75	
		For >20 To 50, Deduct	-16.12	
		For >50, Deduct	-22.86	
32 91 13 16-0004	CY	Pine Wood Chip Mulch	130.21	
		For Work On Slopes >2.5:1, Add	16.04	
		For >5 To 20, Deduct	-10.52	
		For >20 To 50, Deduct	-15.78	
		For >50, Deduct	-22.29	
32 91 13 16-0005	CY	Hardwood Chip Mulch	139.30	
		For Work On Slopes >2.5:1, Add	16.04	
		For >5 To 20, Deduct	-10.98	
		For >20 To 50, Deduct	-16.46	
		For >50, Deduct	-23.43	
32 91 13 16-0006	CY	Shredded Hardwood Mulch	139.30	
		For Work On Slopes >2.5:1, Add	16.04	
		For >5 To 20, Deduct	-10.98	
		For >20 To 50, Deduct	-16.46	
		For >50, Deduct	-23.43	
32 91 13 16-0007	CY	Shredded Pine Mulch	118.84	
		For Work On Slopes >2.5:1, Add	16.04	
		For >5 To 20, Deduct	-9.95	
		For >20 To 50, Deduct	-14.93	
		For >50, Deduct	-20.87	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0008 CY Shredded Cedar Mulch.....	163.16	
For Work On Slopes >2.5:1, Add	16.04	
For >5 To 20, Deduct	-12.17	
For >20 To 50, Deduct	-18.25	
For >50, Deduct	-26.41	
32 91 13 16-0009 CY Shredded Cypress Mulch.....	159.75	
For Work On Slopes >2.5:1, Add	16.04	
For >5 To 20, Deduct	-12.00	
For >20 To 50, Deduct	-18.00	
For >50, Deduct	-25.98	
32 91 13 16-0010 CY Shredded Redwood Mulch.....	168.84	
For Work On Slopes >2.5:1, Add	16.04	
For >5 To 20, Deduct	-12.45	
For >20 To 50, Deduct	-18.68	
For >50, Deduct	-27.12	
32 91 13 16-0011 CY Pea Gravel Mulch	131.59	
For Work On Slopes >2.5:1, Add	16.04	
For >5 To 20, Deduct	-10.59	
For >20 To 50, Deduct	-15.89	
For >50, Deduct	-22.46	
32 91 13 16-0012 CY Chunk Recycled Tire Mulch	261.06	
For Work On Slopes >2.5:1, Add	20.40	
For >5 To 20, Deduct	-18.15	
For >20 To 50, Deduct	-27.23	
For >50, Deduct	-40.28	
32 91 13 16-0013 CY Chunk Colored Recycled Tire Mulch	417.87	
For Work On Slopes >2.5:1, Add	20.40	
For >5 To 20, Deduct	-25.99	
For >20 To 50, Deduct	-38.99	
For >50, Deduct	-59.88	
32 91 13 16-0014 CY Shredded Recycled Tire Mulch.....	420.14	
For Work On Slopes >2.5:1, Add	20.40	
For >5 To 20, Deduct	-26.11	
For >20 To 50, Deduct	-39.16	
For >50, Deduct	-60.17	
32 91 13 16-0015 CY Shredded Colored Recycled Tire Mulch	733.76	
For Work On Slopes >2.5:1, Add	20.40	
For >5 To 20, Deduct	-41.79	
For >20 To 50, Deduct	-62.68	
For >50, Deduct	-99.37	
32 91 13 16-0016 EA Pine Straw Mulch Bale.....	12.36	
Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.89	
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.06	
For >500, Deduct	-1.46	
32 91 13 16-0017 EA Wheat Straw Mulch Bale.....	12.66	
Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.66	
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-0.97	
For >500, Deduct	-1.43	
32 91 13 16-0018 CY Stone/Gravel Mulch, Marble Chips	323.13	
For Work On Slopes >2.5:1, Add	16.04	
For >5 To 20, Deduct	-20.17	
For >20 To 50, Deduct	-30.25	
For >50, Deduct	-46.41	
32 91 13 16-0019 CY Stone Mulch, Decomposed Granite Chips	132.49	
For Work On Slopes >2.5:1, Add	16.04	
For >5 To 20, Deduct	-10.64	
For >20 To 50, Deduct	-15.95	
For >50, Deduct	-22.58	
32 91 13 16-0020 Compost Soil Amendment (AgriService) (32 91 13 16)		
Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.		
32 91 13 16-0021 CY Humic Compost (OIM)	101.78	
Note: (Agri Service or Equal)		
For Work On Slopes >2.5:1, Add	16.04	
For >100 To 1,000, Deduct	-17.12	
For >1,000, Deduct	-26.22	
32 91 13 26 Planting Beds (32 91 13)		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001 Plant Bed Preparation (32 91 13 26)		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002 SF Up To 8" Deep, Prepare And Mix Plant Bed, By Machine	1.26	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.25	



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0003	SF		>8" To 13" Deep, Prepare And Mix Plant Bed, By Machine..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	1.45 0.29	
32 91 13 26-0004	SF		>13" To 18" Deep, Prepare And Mix Plant Bed, By Machine..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	1.71 0.34	
32 91 13 26-0005	SF		Up To 8" Deep, Prepare And Mix Plant Bed By Hand Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	5.56 1.11	
32 91 13 26-0006	SF		>8" To 13" Deep, Prepare And Mix Plant Bed By Hand..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	6.38 1.28	
32 91 13 26-0007	SF		>13" To 18" Deep, Prepare And Mix Plant Bed By Hand..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	7.51 1.50	
32 91 13 26-0008 Plant Bed Preparation With Humic Compost (32 91 13 26)					
32 91 13 26-0009	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.36 0.26 -0.20 -0.33 -0.65 -0.92	
32 91 13 26-0010	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.70 0.31 -0.24 -0.39 -0.79 -1.11	
32 91 13 26-0011	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	2.02 0.37 -0.27 -0.46 -0.92 -1.30	
32 91 13 26-0012 Planting Pit Preparation (32 91 13 26)					
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013	CY		Excavate Planting Pit By Hand, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	96.06 19.21	
32 91 13 26-0014	CY		Excavate Planting Pit By Hand, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	192.12 38.42	
32 91 13 26-0015	CY		Excavate Planting Pit By Machine, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	15.99 3.20	
32 91 13 26-0016	CY		Excavate Planting Pit By Machine, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	20.81 4.16	
32 91 13 26-0017	CY		Backfill Planting Pit By Hand With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	85.37 17.07	
32 91 13 26-0018	CY		Backfill Planting Pit By Hand With Contractor Furnished Planting Mix <i>For Work On Slopes >2.5:1, Add</i>	147.16 15.80	
32 91 13 26-0019	CY		Backfill Planting Pit By Machine, With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	8.52 1.70	
32 91 13 26-0020	CY		Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix <i>For Work On Slopes >2.5:1, Add</i>	90.17 4.40	
32 91 13 26-0021 Weed Barrier (32 91 13 26)					
32 91 13 26-0022	SY		Up To 3 Oz./SY Non-Woven, Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	2.52 0.15	
32 91 13 26-0023	SY		4 Oz./SY Woven, Polypropylene Weed Barrier..... <i>For Work On Slopes >2.5:1, Add</i>	3.43 0.15	
32 91 13 26-0024	SY		5 Oz./SY Woven, Needle Punched Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	3.83 0.15	
32 91 13 33 Soil Conditioners (32 91 13)					
32 91 13 33-0001 Spread Soil Conditioners (32 91 13 33)					

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 33-0002	SY	Aluminum Sulfate 1 Lb./SY, Push Spreader	0.49	
32 91 13 33-0003	MSF	Aluminum Sulfate 110 Lb./MSF Tractor Spreader	47.89	
32 91 13 33-0004	MSF	Fertilizer, 20 Lb./MSF, Push Spreader	8.07	
32 91 13 33-0005	MSF	Fertilizer, 20 Lb./MSF, Tractor Spread	3.52	
32 91 13 33-0006	MSF	Fertilizer, 20 Lb./MSF, Truck Spread	6.24	
32 91 13 33-0007	SY	Pelletized Lime, 1 Lb./SY, Push Spreader	0.11	
32 91 13 33-0008	MSF	Pelitized Lime, 110 Lb./MSF, Tractor Spreader	9.05	
32 91 13 33-0009	SY	Perlite, 1" Deep, Push Spreader	4.35	
32 91 13 33-0010	MSF	Perlite, 1" Deep, Tractor Spreader	453.06	
32 91 13 33-0011	SY	Vermiculite, Push Spreader	4.04	
32 91 13 33-0012	MSF	Vermiculite, Tractor Spreader	442.56	
32 91 13 33-0013	SY	Humate Granular Soil Conditioner, 0.10 Lb./SY, Push Spreader	0.23	
32 91 13 33-0014	MSF	Humate Granular Soil Conditioner, 10 Lb./MSF, Tractor Spreader	21.66	
32 91 13 36 Lawn Bed Preparation (32 91 13)				
32 91 13 36-0001 Lawn Bed Preparation (32 91 13 36)				
32 91 13 36-0002	MSF	Rake Topsoil With Machine	98.93	
32 91 13 36-0003	MSF	Rake Topsoil By Hand	76.83	
32 91 13 36-0004	MSF	Screen Loam By Hand	51.23	
32 91 13 36-0005	SY	Roll Topsoil With Machine	1.29	
32 91 13 36-0006	SY	Roll Topsoil By Hand	3.43	
32 91 13 36-0007	MSF	Removal Of Rocks And Debris With Machine	11.70	
32 91 13 36-0008	MSF	Removal Of Rocks And Debris By Hand	35.92	
32 91 13 36-0009	MSF	Root Raking And Loading, No Boulders	61.22	
		<i>For >45 to 225, Deduct</i>	-42.85	
		<i>For >225, Deduct</i>	-55.10	
32 91 13 36-0010	MSF	Root Raking And Loading, With Boulders	102.03	
		<i>For >45 to 225, Deduct</i>	-71.42	
		<i>For >225, Deduct</i>	-91.83	
32 91 13 36-0011	MSF	Up To 6" Deep Tilling Topsoil With Tractor	5.54	
32 91 13 36-0012	MSF	>6" To 12" Deep Tilling Topsoil With Tractor	11.22	
		<i>For Work On Slopes >2.5:1, Add</i>	2.24	
32 91 13 36-0013	SY	Up To 2" Deep Tilling Topsoil With Rototiller	0.82	
32 91 13 36-0014	SY	>2" To 4" Deep Tilling Topsoil With Rototiller	0.99	
32 91 13 36-0015	SY	>4" To 6" Deep Tilling Topsoil With Rototiller	1.22	
32 91 13 36-0016	LF	"V" Cut Soil For Edge Of Planting Beds	1.36	
32 91 13 36-0017 Sod Removal (32 91 13 36)				
32 91 13 36-0018	SY	Removal Of Sod By Hand	6.48	
		<i>For Work On Slopes >2.5:1, Add</i>	1.30	
32 91 13 36-0019	SY	Removal Of Sod With Machine	0.75	
		<i>For Work On Slopes >2.5:1, Add</i>	0.15	
32 91 13 36-0020	SY	Pile Sod By Hand	3.84	
		<i>For Work On Slopes >2.5:1, Add</i>	0.77	
32 91 13 36-0021	SY	Pile Sod With Machine	1.40	
		<i>For Work On Slopes >2.5:1, Add</i>	0.28	
32 91 19 Landscape Grading (32 91)				
32 91 19 13 Topsoil Placement and Grading (32 91 19)				
32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)				
32 91 19 13-0002	CY	Removal Of Topsoil, 4" Deep Stockpile On Site	5.92	
32 91 19 13-0003	CY	Removal Of Topsoil, 6" Deep Stockpile On Site	5.86	
32 91 19 13-0004 Screening Topsoil (32 91 19 13)				
32 91 19 13-0005	CY	Screen Topsoil With Vibrating Screen, Wet Material (Organic)	12.53	
32 91 19 13-0006	CY	Screen Topsoil With Vibrating Screen, Dry Material	8.34	
32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)				
32 91 19 13-0008	CY	Spread Topsoil By Machine From Stockpile	9.54	
32 91 19 13-0009	CY	Spread Topsoil By Hand From Stockpile	73.32	
32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)				
Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.				
32 91 19 13-0011	SY	Furnish And Place Imported Screened Topsoil, 2" Deep	5.07	
		<i>For Unscreened, Deduct</i>	-0.72	
32 91 19 13-0012	SY	Furnish And Place Imported Screened Topsoil, 4" Deep	9.77	
		<i>For Unscreened, Deduct</i>	-1.43	
32 91 19 13-0013	SY	Furnish And Place Imported Screened Topsoil, 6" Deep	14.21	
		<i>For Unscreened, Deduct</i>	-2.14	
32 91 19 13-0014	SY	Furnish And Place Imported Screened Topsoil, 9" Deep	20.61	
		<i>For Unscreened, Deduct</i>	-3.21	



Exterior Improvements		32
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Planting Preparation		32 91

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 19 13-0015	SY		Furnish And Place Imported Screened Topsoil, 12" Deep..... <i>For Unscreened, Deduct</i>	27.00 -4.28	
32 91 19 13-0016	CY		Furnish And Place Imported Screened Topsoil, Over 12" Deep <i>For Unscreened, Deduct</i>	74.99 -12.85	
32 91 19 13-0017			Scarify Soil For Planting Preparation (32 91 19 13) Note: Ripped in multiple directions with 3" maximum clods.		
32 91 19 13-0018	MSF		Up To 5,000 SF Scarify Up To 8" Soil With Machine.....	74.81	
32 91 19 13-0019	MSF		>5,000 To 20,000 SF Scarify Up To 8" Soil With Machine	52.37	
32 91 19 13-0020	MSF		>20,000 SF Scarify Up To 8" Soil With Machine.....	30.76	
32 92 Turf and Grasses (32 90)					
32 92 16 Plugging (32 92)					
32 92 16 00-0001			Bermuda Or Centipede Plugging, 1" Deep (32 92 16) Note: Includes fine grade and soil preparation.		
32 92 16 00-0002			6" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0003	MSF		Plugging By Hand, 6" On Center	248.97	
32 92 16 00-0004	MSF		Plugging By Walk Behind Planter, 6" On Center	34.50	
32 92 16 00-0005	MSF		Plugging By Towed Planter, 6" On Center	25.77	
32 92 16 00-0006			9" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0007	MSF		Plugging By Hand, 9" On Center	190.99	
32 92 16 00-0008	MSF		Plugging By Walk Behind Planter, 9" On Center	27.01	
32 92 16 00-0009	MSF		Plugging By Towed Planter, 9" On Center	19.32	
32 92 16 00-0010			12" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0011	MSF		Plugging By Hand, 12" On Center	160.73	
32 92 16 00-0012	MSF		Plugging By Walk Behind Planter, 12" On Center	18.26	
32 92 16 00-0013	MSF		Plugging By Towed Planter, 12" On Center	12.34	
32 92 19 Seeding (32 92)					
32 92 19 13 Mechanical Seeding (32 92 19)					
Note: Includes fertilizing, liming, mixing, seeding and initial watering.					
32 92 19 13-0001			Tractor Spreader Mechanical Seeding (32 92 19 13) Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 13-0002	MSF		Common Bluegrass, Tractor Spreader Note: 4 Lbs./MSF spread rate.	52.35	
32 92 19 13-0003	MSF		Tall Fescue, Tractor Spreader Note: 5.5 Lbs./MSF spread rate.	41.29	
32 92 19 13-0004	MSF		Rye, Tractor Spreader Note: 10 Lbs./MSF spread rate.	42.03	
32 92 19 13-0005	MSF		Shade Mix, Tractor Spreader..... Note: 6 Lbs./MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	45.81	
32 92 19 13-0006	MSF		Turf Mix, Tractor Spreader..... Note: 4 Lbs./MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	48.51	
32 92 19 13-0007	MSF		Slope Mix, Tractor Spreader..... Note: 6 Lbs./MSF spread rate.	44.90	
32 92 19 13-0008	MSF		Utility Mix, Tractor Spreader Note: 7 Lbs./MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	40.40	
32 92 19 13-0009	MSF		Wild Flower Mix, Tractor Spreader Note: 0.10 Lbs./MSF spread rate.	31.91	
32 92 19 13-0010	MSF		Crown Vetch Mix, Tractor Spreader..... Note: 4 Lbs./MSF spread rate.	99.07	
32 92 19 13-0011	MSF		Athletic Mix, Tractor Spreader Note: 8 Lbs./MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	59.35	
32 92 19 13-0012	MSF		White Clover Mix, Tractor Spreader..... Note: 7 Lbs./MSF spread rate.	31.81	
32 92 19 13-0013	MSF		Ladino Clover Mix, Tractor Spreader..... Note: 7 Lbs./MSF spread rate.	35.43	
32 92 19 13-0014			Hydro Or Air Mechanical Seeding (32 92 19 13)		
32 92 19 13-0015	MSF		Common Bluegrass, Hydro Or Air Seeding Note: 4 Lbs./MSF spread rate.	106.14	
			<i>For Spot Areas Up To 1, Add</i>	112.47	
			<i>For >1 To 4, Add</i>	72.15	
			<i>For >4 To 7.5, Add</i>	48.80	
			<i>For >7.5 To 10, Add</i>	24.40	
			<i>For >45, Deduct</i>	-8.49	
			<i>For Tackifier, Add</i>	4.57	

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0016	MSF	Tall Fescue, Hydro Or Air Seeding Note: 5.5 Lbs./MSF spread rate.	112.61	
		For Spot Areas Up To 1, Add	115.06	
		For >1 To 4, Add	73.44	
		For >4 To 7.5, Add	49.45	
		For >7.5 To 10, Add	24.73	
		For >45, Deduct	-8.81	
		For Tackifier, Add	4.57	
32 92 19 13-0017	MSF	Rye, Hydro Or Air Spread Note: 10 Lbs./MSF spread rate.	106.41	
		For Spot Areas Up To 1, Add	112.58	
		For >1 To 4, Add	72.20	
		For >4 To 7.5, Add	48.83	
		For >7.5 To 10, Add	24.42	
		For >45, Deduct	-8.50	
		For Tackifier, Add	4.57	
32 92 19 13-0018	MSF	Shade Mix, Hydro Or Air Seeding Note: 6 Lbs./MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	106.14	
		For Spot Areas Up To 1, Add	112.47	
		For >1 To 4, Add	72.15	
		For >4 To 7.5, Add	48.80	
		For >7.5 To 10, Add	24.40	
		For >45, Deduct	-8.49	
		For Tackifier, Add	4.57	
32 92 19 13-0019	MSF	Turf Mix, Hydro Or Air Seeding Note: 4 Lbs./MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	112.61	
		For Spot Areas Up To 1, Add	115.06	
		For >1 To 4, Add	73.44	
		For >4 To 7.5, Add	49.45	
		For >7.5 To 10, Add	24.73	
		For >45, Deduct	-8.81	
		For Tackifier, Add	4.57	
32 92 19 13-0020	MSF	Slope Mix, Hydro Or Air Seeding Note: 6 Lbs./MSF spread rate.	109.84	
		For Spot Areas Up To 1, Add	113.95	
		For >1 To 4, Add	72.89	
		For >4 To 7.5, Add	49.17	
		For >7.5 To 10, Add	24.59	
		For >45, Deduct	-8.67	
		For Tackifier, Add	4.57	
32 92 19 13-0021	MSF	Utility Mix, Hydro Or Air Seeding Note: 7 Lbs./MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	107.60	
		For Spot Areas Up To 1, Add	113.06	
		For >1 To 4, Add	72.44	
		For >4 To 7.5, Add	48.95	
		For >7.5 To 10, Add	24.48	
		For >45, Deduct	-8.56	
		For Tackifier, Add	4.57	
32 92 19 13-0022	MSF	Wild Flower Mix, Hydro Or Air Seeding Note: 0.10 Lbs./MSF spread rate.	100.40	
		For Spot Areas Up To 1, Add	110.18	
		For >1 To 4, Add	71.00	
		For >4 To 7.5, Add	48.23	
		For >7.5 To 10, Add	24.12	
		For >45, Deduct	-8.20	
		For Tackifier, Add	4.57	
32 92 19 13-0023	MSF	Crown Vetch Mix, Hydro Or Air Seeding Note: 4 Lbs./MSF spread rate.	165.26	
		For Spot Areas Up To 1, Add	136.12	
		For >1 To 4, Add	83.97	
		For >4 To 7.5, Add	54.72	
		For >7.5 To 10, Add	27.36	
		For >45, Deduct	-11.45	
		For Tackifier, Add	4.57	
32 92 19 13-0024	MSF	Athletic Mix, Hydro Or Air Seeding Note: 8 Lbs./MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	144.96	
		For Spot Areas Up To 1, Add	128.00	
		For >1 To 4, Add	79.91	
		For >4 To 7.5, Add	52.69	
		For >7.5 To 10, Add	26.34	
		For >45, Deduct	-10.43	
		For Tackifier, Add	4.57	
32 92 19 13-0025	MSF	White Clover Mix, Hydro Or Air Seeding Note: 7 Lbs./MSF spread rate.	91.64	
		For Spot Areas Up To 1, Add	106.67	
		For >1 To 4, Add	69.25	
		For >4 To 7.5, Add	47.35	
		For >7.5 To 10, Add	23.68	
		For >45, Deduct	-7.76	
		For Tackifier, Add	4.57	



Exterior Improvements		32
Planting		32 90
Turf and Grasses		32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0026	MSF		Ladino Clover Mix, Hydro Or Air Seeding.....	102.45	
			Note: 7 Lbs./MSF spread rate.		
			For Spot Areas Up To 1, Add	111.00	
			For >1 To 4, Add	71.41	
			For >4 To 7.5, Add	48.44	
			For >7.5 To 10, Add	24.22	
			For >45, Deduct	-8.31	
			For Tackifier, Add	4.57	
32 92 19 13-0027	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread.....	107.99	
			Note: 4 Lbs./MSF spread rate.		
			For Spot Areas Up To 1, Add	113.21	
			For >1 To 4, Add	72.52	
			For >4 To 7.5, Add	48.99	
			For >7.5 To 10, Add	24.49	
			For >45, Deduct	-8.58	
			For Tackifier, Add	4.57	
32 92 19 13-0028	MSF		2,500 Lb./Acre, High Performance - Flexible Growth Medium.....	134.96	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-8.34	
32 92 19 13-0029	MSF		3,000 Lb./Acre, High Performance - Flexible Growth Medium.....	157.17	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-9.53	
32 92 19 13-0030	MSF		3,500 Lb./Acre, High Performance - Flexible Growth Medium.....	179.50	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-10.73	
32 92 19 13-0031	MSF		4,000 Lb./Acre, High Performance - Flexible Growth Medium.....	201.85	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-11.94	
32 92 19 13-0032	MSF		4,500 Lb./Acre, High Performance - Flexible Growth Medium.....	224.33	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-13.15	
32 92 19 19 Seeding by Hand (32 92 19)					
Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.					
32 92 19 19-0001 Push Spreader Or Hand Seeding (32 92 19 19)					
Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.					
32 92 19 19-0002	MSF		Common Bluegrass, Push Spreader Or Hand.....	121.54	
			Note: 4 Lbs./MSF spread rate.		
			For >5 To 20, Deduct	-8.48	
			For >20 To 45, Deduct	-16.32	
			For >45, Deduct	-26.56	
32 92 19 19-0003	MSF		Tall Fescue, Push Spreader Or Hand.....	110.48	
			Note: 5.5 Lbs./MSF spread rate.		
			For >5 To 20, Deduct	-7.93	
			For >20 To 45, Deduct	-15.49	
			For >45, Deduct	-25.45	
32 92 19 19-0004	MSF		Rye, Push Spreader Or Hand.....	111.22	
			Note: 10 Lbs./MSF spread rate.		
			For >5 To 20, Deduct	-7.96	
			For >20 To 45, Deduct	-15.54	
			For >45, Deduct	-25.53	
32 92 19 19-0005	MSF		Shade Mix, Push Spreader Or Hand.....	115.00	
			Note: 6 Lbs./MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
			For >5 To 20, Deduct	-8.15	
			For >20 To 45, Deduct	-15.83	
			For >45, Deduct	-25.91	
32 92 19 19-0006	MSF		Turf Mix, Push Spreader Or Hand.....	117.70	
			Note: 4 Lbs./MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
			For >5 To 20, Deduct	-8.29	
			For >20 To 45, Deduct	-16.03	
			For >45, Deduct	-26.18	
32 92 19 19-0007	MSF		Slope Mix, Push Spreader Or Hand.....	114.09	
			Note: 6 Lbs./MSF spread rate.		
			For >5 To 20, Deduct	-8.11	
			For >20 To 45, Deduct	-15.76	
			For >45, Deduct	-25.82	
32 92 19 19-0008	MSF		Utility Mix, Push Spreader Or Hand.....	109.59	
			Note: 7 Lbs./MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
			For >5 To 20, Deduct	-7.88	
			For >20 To 45, Deduct	-15.42	
			For >45, Deduct	-25.37	
32 92 19 19-0009	MSF		Wild Flower Mix, Push Spreader Or Hand.....	101.10	
			Note: 0.10 Lbs./MSF spread rate.		
			For >5 To 20, Deduct	-7.46	
			For >20 To 45, Deduct	-14.79	
			For >45, Deduct	-24.52	
32 92 19 19-0010	MSF		Crown Vetch Mix, Push Spreader Or Hand.....	168.26	
			Note: 4 Lbs./MSF spread rate.		
			For >5 To 20, Deduct	-10.81	
			For >20 To 45, Deduct	-19.82	
			For >45, Deduct	-31.23	

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0011	MSF	Athletic Mix, Push Spreader Or Hand Note: 8 Lbs./MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	128.54	
		For >5 To 20, Deduct	-8.83	
		For >20 To 45, Deduct	-16.84	
		For >45, Deduct	-27.26	
32 92 19 19-0012	MSF	White Clover Mix, Push Spreader Or Hand Note: 7 Lbs./MSF spread rate.	101.00	
		For >5 To 20, Deduct	-7.45	
		For >20 To 45, Deduct	-14.78	
		For >45, Deduct	-24.51	
32 92 19 19-0013	MSF	Ladino Clover Mix, Push Spreader Or Hand Note: 7 Lbs./MSF spread rate.	104.62	
		For >5 To 20, Deduct	-7.63	
		For >20 To 45, Deduct	-15.05	
		For >45, Deduct	-24.87	
32 92 19 19-0014	MSF	100% Kentucky Bluegrass, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate.	123.29	
		For >5 To 20, Deduct	-8.57	
		For >20 To 45, Deduct	-16.45	
		For >45, Deduct	-26.74	
32 92 19 19-0015	MSF	70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate.	118.21	
		For >5 To 20, Deduct	-8.31	
		For >20 To 45, Deduct	-16.07	
		For >45, Deduct	-26.23	
32 92 19 19-0016	MSF	50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate.	114.51	
		For >5 To 20, Deduct	-8.13	
		For >20 To 45, Deduct	-15.79	
		For >45, Deduct	-25.86	
32 92 19 19-0017	MSF	50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand Note: 4.4 Lbs./MSF spread rate.	121.90	
		For >5 To 20, Deduct	-8.50	
		For >20 To 45, Deduct	-16.35	
		For >45, Deduct	-26.60	
32 92 19 19-0018	MSF	60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate.	116.36	
		For >5 To 20, Deduct	-8.22	
		For >20 To 45, Deduct	-15.93	
		For >45, Deduct	-26.04	
32 92 19 19-0019	MSF	40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand Note: 3.3 Lbs./MSF spread rate.	117.70	
		For >5 To 20, Deduct	-8.29	
		For >20 To 45, Deduct	-16.03	
		For >45, Deduct	-26.18	
32 92 23	Sodding	(32 92)		
		Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.		
32 92 23 00-0001	Bermuda Sod	(32 92 23)		
32 92 23 00-0002	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Level Ground	1,707.28	
32 92 23 00-0003	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground.....	1,437.69	
32 92 23 00-0004	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground.....	1,223.82	
32 92 23 00-0005	MSF	>8,000 SF, Bermuda Sod, Installed On Level Ground.....	1,070.45	
32 92 23 00-0006	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	2,086.22	
32 92 23 00-0007	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,758.36	
32 92 23 00-0008	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,445.07	
32 92 23 00-0009	MSF	>8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,258.59	
32 92 23 00-0010	Zoysia Sod	(32 92 23)		
32 92 23 00-0011	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Level Ground	2,488.87	
32 92 23 00-0012	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground.....	2,021.88	
32 92 23 00-0013	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,710.65	
32 92 23 00-0014	MSF	>8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,459.91	
32 92 23 00-0015	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	2,865.14	
32 92 23 00-0016	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,342.55	
32 92 23 00-0017	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,931.90	
32 92 23 00-0018	MSF	>8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,648.05	
32 92 23 00-0019	Tall Fescue Sod	(32 92 23)		
32 92 23 00-0020	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground	2,415.60	
		For Hybrid Fescue "Marathon", Add	161.86	
32 92 23 00-0021	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,966.93	
		For Hybrid Fescue "Marathon", Add	121.96	
32 92 23 00-0022	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,664.86	
		For Hybrid Fescue "Marathon", Add	102.01	
32 92 23 00-0023	MSF	>8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,423.27	
		For Hybrid Fescue "Marathon", Add	82.06	



Exterior Improvements			32
Planting			32 90
Turf and Grasses			32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 23 00-0024	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes		2,791.87	
		For Hybrid Fescue "Marathon", Add		161.86	
32 92 23 00-0025	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,287.60	
		For Hybrid Fescue "Marathon", Add		121.96	
32 92 23 00-0026	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,886.11	
		For Hybrid Fescue "Marathon", Add		102.01	
32 92 23 00-0027	MSF	>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,611.41	
		For Hybrid Fescue "Marathon", Add		82.06	
32 92 23 00-0028 Centipede Sod (32 92 23)					
32 92 23 00-0029	MSF	Up To 1,000 SF, Centipede Sod, Installed On Level Ground	.....	2,187.76	
32 92 23 00-0030	MSF	>1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground	.....	1,796.05	
32 92 23 00-0031	MSF	>4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground	.....	1,522.46	
32 92 23 00-0032	MSF	>8,000 SF, Centipede Sod, Installed On Level Ground	.....	1,309.35	
32 92 23 00-0033	MSF	Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,564.03	
32 92 23 00-0034	MSF	>1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,116.72	
32 92 23 00-0035	MSF	>4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,743.71	
32 92 23 00-0036	MSF	>8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,497.49	
32 92 23 00-0037 Kentucky Blue Grass Sod (32 92 23)					
32 92 23 00-0038	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	.....	2,081.58	
32 92 23 00-0039	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	.....	1,716.41	
32 92 23 00-0040	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	.....	1,456.09	
32 92 23 00-0041	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	.....	1,256.26	
32 92 23 00-0042	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,457.85	
32 92 23 00-0043	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,037.08	
32 92 23 00-0044	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,677.34	
32 92 23 00-0045	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,444.40	
32 92 23 00-0046 Ballfield Mix 2A Sod 10% Bermuda Shorts, 10% Barclay, 80% Turfstar (32 92 23)					
32 92 23 00-0047	MSF	Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	.....	1,922.31	
32 92 23 00-0048	MSF	>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	.....	1,596.96	
32 92 23 00-0049	MSF	>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	.....	1,356.55	
32 92 23 00-0050	MSF	>8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	.....	1,176.63	
32 92 23 00-0051	MSF	Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,298.58	
32 92 23 00-0052	MSF	>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,917.63	
32 92 23 00-0053	MSF	>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,577.80	
32 92 23 00-0054	MSF	>8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,364.77	
32 92 23 00-0055 GN-1 Sod (32 92 23)					
32 92 23 00-0056	MSF	Up To 1,000 SF, GN-1 Sod, Installed On Level Ground	.....	2,473.63	
32 92 23 00-0057	MSF	>1,000 To 4,000 SF, GN-1 Sod, Installed On Level Ground	.....	2,010.45	
32 92 23 00-0058	MSF	>4,000 To 8,000 SF, GN-1 Sod, Installed On Level Ground	.....	1,701.12	
32 92 23 00-0059	MSF	>8,000 SF, GN-1 Sod, Installed On Level Ground	.....	1,452.29	
32 92 23 00-0060	MSF	Up To 1,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,849.90	
32 92 23 00-0061	MSF	>1,000 To 4,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,331.12	
32 92 23 00-0062	MSF	>4,000 To 8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,922.37	
32 92 23 00-0063	MSF	>8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,640.43	
32 92 23 00-0064 Tifgreen Bermuda Sod (32 92 23)					
32 92 23 00-0065	MSF	Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	.....	2,594.11	
32 92 23 00-0066	MSF	>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	.....	2,100.81	
32 92 23 00-0067	MSF	>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	.....	1,776.42	
32 92 23 00-0068	MSF	>8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	.....	1,512.53	
32 92 23 00-0069	MSF	Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,970.38	
32 92 23 00-0070	MSF	>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	2,421.48	
32 92 23 00-0071	MSF	>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,997.67	
32 92 23 00-0072	MSF	>8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	.....	1,700.67	
32 93 Plants (32 93)					
32 93 13 Ground Covers (32 93)					
Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.					
32 93 13 00-0001 Ornamental Grasses (32 93 13)					
32 93 13 00-0002	EA	1 Gallon, Cortaderia selloana - Pampas Grass	.....	39.07	
32 93 13 00-0003	EA	2 Gallon, Cortaderia selloana - Pampas Grass	.....	72.23	
32 93 13 00-0004	EA	3 Gallon, Cortaderia selloana - Pampas Grass	.....	131.26	
32 93 13 00-0005	EA	5 Gallon, Cortaderia selloana - Pampas Grass	.....	238.90	
32 93 13 00-0006	EA	1 Quart, Imperata cylindrica - Japanese Blood Grass	.....	29.91	
32 93 13 00-0007	EA	1 Gallon, Imperata cylindrica - Japanese Blood Grass	.....	39.77	
32 93 13 00-0008	EA	2 Gallon, Imperata cylindrica - Japanese Blood Grass	.....	42.56	
32 93 13 00-0009	EA	1 Quart, Koeleria glauca - Blue Hair Grass	.....	29.83	
32 93 13 00-0010	EA	1 Gallon, Koeleria glauca - Blue Hair Grass	.....	39.77	
32 93 13 00-0011	EA	3 Gallon, Koeleria glauca - Blue Hair Grass	.....	96.22	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 13 00-0012	EA	1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	37.76
32 93 13 00-0013	EA	3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	48.93
32 93 13 00-0014	EA	5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	93.55
32 93 13 00-0015	EA	1 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	35.04
32 93 13 00-0016	EA	3 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	55.09
32 93 13 00-0017	EA	5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	94.29
32 93 13 00-0018	EA	1 Quart, Pennisetum setaceum - Fountain Grass	32.62
32 93 13 00-0019	EA	1 Gallon, Pennisetum setaceum - Fountain Grass	33.73
32 93 13 00-0020	EA	3 Gallon, Pennisetum setaceum - Fountain Grass	74.40
32 93 13 00-0021	EA	1 Gallon, Saccharum ravennae - Ravenna Grass	103.29
32 93 13 00-0022	EA	3 Gallon, Saccharum ravennae - Ravenna Grass	116.02
32 93 13 00-0023	EA	7 Gallon, Saccharum ravennae - Ravenna Grass	191.41
32 93 13 00-0024	EA	1 Gallon, Spartina pectinata - Variegated Cord Grass	56.08
32 93 13 00-0025	EA	2 Gallon, Spartina pectinata - Variegated Cord Grass	83.93
32 93 13 00-0026	EA	1 Quart, Stipa gigantea - Giant Feather Grass	42.81
32 93 13 00-0027	EA	1 Gallon, Stipa gigantea - Giant Feather Grass	59.65

32 93 13 00-0028**Ground Covers** (32 93 13)

32 93 13 00-0029	EA	1 Gallon Agave Attenuata - Century Plant	13.05
32 93 13 00-0030	EA	5 Gallon Agave Attenuata - Century Plant	35.17
32 93 13 00-0031	EA	15 Gallon Agave Attenuata - Century Plant	116.30
32 93 13 00-0032	EA	1 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac	11.13
32 93 13 00-0033	EA	5 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac	30.98
32 93 13 00-0034	EA	1 Gallon Ceanothus 'Yankee Point' - Wild Lilac	11.13
32 93 13 00-0035	EA	5 Gallon Ceanothus 'Yankee Point' - Wild Lilac	28.94
32 93 13 00-0036	EA	1 Gallon Dietes Vegata - Fortnight Lily	9.76
32 93 13 00-0037	EA	5 Gallon Dietes Vegata - Fortnight Lily	24.05
32 93 13 00-0038	EA	1 Gallon Juncus Patens 'Elk Blue' - California Gray Rush	18.13
32 93 13 00-0039	EA	5 Gallon Juncus Patens 'Elk Blue' - California Gray Rush	47.63
32 93 13 00-0040	EA	4" Pot Miscanthus 'Morning Light' - NCN	13.59
32 93 13 00-0041	EA	20 Count Flat Miscanthus 'Morning Light' - NCN	200.52
32 93 13 00-0042	EA	1 Gallon Nassella Tenuissima - Mexican Feather Grass	18.13
32 93 13 00-0043	EA	1 Gallon Trachelospermum Jasminoides - Star Jasmine	9.86
32 93 13 00-0044	EA	5 Gallon Trachelospermum Jasminoides - Star Jasmine	24.70
32 93 13 00-0045	EA	1 Gallon Westringia Fruticosa - Coast Rosemary	9.76
32 93 13 00-0046	EA	5 Gallon Westringia Fruticosa - Coast Rosemary	24.05
32 93 13 00-0047	EA	15 Gallon Westringia Fruticosa - Coast Rosemary	98.71
32 93 13 00-0048	EA	1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge	50.18
32 93 13 00-0049	EA	1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge	65.33
32 93 13 00-0050	EA	2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper	82.69
32 93 13 00-0051	EA	1 Quart Waldsteinia ternata - Barren Strawberry	14.20
32 93 13 00-0052	EA	1 Gallon Waldsteinia ternata - Barren Strawberry	34.08
32 93 13 00-0053	EA	1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	46.39
32 93 13 00-0054	EA	2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	88.05
32 93 13 00-0055	EA	5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	155.27
32 93 13 00-0056	EA	1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope	15.89
32 93 13 00-0057	EA	1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	29.35
32 93 13 00-0058	EA	5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	103.20
32 93 13 00-0059	EA	1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper	38.52
32 93 13 00-0060	EA	4" Pot Parthenocissus tricuspidata - Boston Ivy	18.93
32 93 13 00-0061	EA	1 Gallon Parthenocissus tricuspidata - Boston Ivy	43.17
32 93 13 00-0062	EA	5 Gallon Parthenocissus tricuspidata - Boston Ivy	118.15
32 93 13 00-0063	EA	3 Gallon Bougainvillea spectabilis - Bougainvillea	49.65
32 93 13 00-0064	EA	1 Quart Iberis sempervirens - Candytuft	14.20
32 93 13 00-0065	EA	1 Gallon Iberis sempervirens - Candytuft	34.08
32 93 13 00-0066	EA	1 Gallon Gelsemium sempervirens - Carolina Jessamine	40.90
32 93 13 00-0067	EA	5 Gallon Gelsemium sempervirens - Carolina Jessamine	147.69
32 93 13 00-0068	EA	3" Pot Ajuga reptans - Carpet Bugle	8.52
32 93 13 00-0069	EA	1 Quart Ajuga reptans - Carpet Bugle	14.20
32 93 13 00-0070	EA	1 Gallon Ajuga reptans - Carpet Bugle	34.08
32 93 13 00-0071	EA	24 Plant Flat Ajuga reptans - Carpet Bugle	146.74
32 93 13 00-0072	EA	1 Gallon Macfadyena unguis-cati - Cat Claw Vine	34.08
32 93 13 00-0073	EA	5 Gallon Macfadyena unguis-cati - Cat Claw Vine	147.69
32 93 13 00-0074	EA	1 Gallon Wisteria sinensis - Chinese Wisteria Vine	44.50
32 93 13 00-0075	EA	3 Gallon Wisteria sinensis - Chinese Wisteria Vine	98.47
32 93 13 00-0076	EA	5 Gallon Wisteria sinensis - Chinese Wisteria Vine	147.69
32 93 13 00-0077	EA	1 Gallon Ranunculaceae - Clematis Varieties	48.92
32 93 13 00-0078	EA	2 Gallon Ranunculaceae - Clematis Varieties	90.47
32 93 13 00-0079	EA	1 Gallon Hydrangea petiolaris - Climbing Hydrangea	61.54
32 93 13 00-0080	EA	2 Gallon Hydrangea petiolaris - Climbing Hydrangea	115.50
32 93 13 00-0081	EA	5 Gallon Hydrangea petiolaris - Climbing Hydrangea	189.35
32 93 13 00-0082	EA	4" Pot Lantana camera - Common Lantana	8.52
32 93 13 00-0083	EA	1 Gallon Lantana camera - Common Lantana	24.62
32 93 13 00-0084	EA	1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	29.35
32 93 13 00-0085	EA	5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	96.57
32 93 13 00-0086	EA	2 Quart Lysimachia nummularia - Creeping Jenny	14.20
32 93 13 00-0087	EA	1 Gallon Lysimachia nummularia - Creeping Jenny	27.46
32 93 13 00-0088	EA	2 Quart Liriope spicata - Creeping Lilytuft	24.62
32 93 13 00-0089	EA	1 Gallon Liriope spicata - Creeping Lilytuft	44.50
32 93 13 00-0090	EA	5 Gallon Liriope spicata - Creeping Lilytuft	93.73

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0091	EA		Bare Root Liriope spicata - Creeping Liriope	6.21	
32 93 13 00-0092	EA		3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	8.52	
32 93 13 00-0093	EA		1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	34.08	
32 93 13 00-0094	EA		2-1/4" Pot Securigera varia - Crown Vetch	5.68	
32 93 13 00-0095	EA		50 Plant Flat Securigera varia - Crown Vetch	192.19	
32 93 13 00-0096	EA		1 Quart Senecio cineraria - Dusty Miller	14.20	
32 93 13 00-0097	EA		1 Gallon Senecio cineraria - Dusty Miller	34.08	
32 93 13 00-0098	EA		2 Gallon Aristolochia macrophylla - Dutchman's Pipe	118.34	
32 93 13 00-0099	EA		5 Gallon Aristolochia macrophylla - Dutchman's Pipe	216.80	
32 93 13 00-0100	EA		1 Gallon Ilex cornuta - Dwarf Holly	25.71	
32 93 13 00-0101	EA		3 Gallon Ilex cornuta - Dwarf Holly	55.10	
32 93 13 00-0102	EA		3 Gallon Rhamphiolepis umbellata 'Minor' - Dwarf Indian Hawthorn	55.10	
32 93 13 00-0103	EA		1 Gallon Tradescantia spathacea - Dwarf Oyster Plant	18.37	
32 93 13 00-0104	EA		2" To 3" Pot Hedera helix - English Ivy	8.52	
32 93 13 00-0105	EA		12" To 15" Runners Hedera helix - English Ivy	14.20	
32 93 13 00-0106	EA		1 Gallon Hedera helix - English Ivy	34.08	
32 93 13 00-0107	EA		50 Plant Flat Hedera helix - English Ivy	196.92	
32 93 13 00-0108	EA		4" Pot Lavandula angustifolia - English Lavender	12.31	
32 93 13 00-0109	EA		1 Quart Lavandula angustifolia - English Lavender	23.67	
32 93 13 00-0110	EA		1 Gallon Lavandula angustifolia - English Lavender	38.82	
32 93 13 00-0111	EA		1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	36.92	
32 93 13 00-0112	EA		2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	73.85	
32 93 13 00-0113	EA		1 Quart Arundo donax - Giant Reed	45.45	
32 93 13 00-0114	EA		1 Gallon Arundo donax - Giant Reed	65.33	
32 93 13 00-0115	EA		1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	38.82	
32 93 13 00-0116	EA		2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	73.85	
32 93 13 00-0117	EA		1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	50.18	
32 93 13 00-0118	EA		1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	75.74	
32 93 13 00-0119	EA		3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	8.52	
32 93 13 00-0120	EA		1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	38.82	
32 93 13 00-0121	EA		2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	73.85	
32 93 13 00-0122	EA		1 Gallon Hardenbergia violacea - Happy Wanderer	34.08	
32 93 13 00-0123	EA		5 Gallon Hardenbergia violacea - Happy Wanderer	113.61	
32 93 13 00-0124	EA		3 Gallon Hibiscus, Assorted Colors	44.39	
32 93 13 00-0125	EA		1 Gallon Acorus gramineus - Japanese Sweet Flag	35.50	
32 93 13 00-0126	EA		1 Gallon Jasminum volubile - Wax Jasmine	17.88	
32 93 13 00-0127	EA		1 Gallon Jasminum volubile - Wax Jasmine	44.39	
32 93 13 00-0128	EA		1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	22.30	
32 93 13 00-0129	EA		3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	49.65	
32 93 13 00-0130	EA		1 Gallon Cissus antarctica - Kangaroo Vine	27.46	
32 93 13 00-0131	EA		5 Gallon Cissus antarctica - Kangaroo Vine	86.15	
32 93 13 00-0132	EA		1 Quart Stachys byzantina - Lamb's Ear	14.20	
32 93 13 00-0133	EA		1 Quart Stachys byzantina - Lamb's Ear	34.08	
32 93 13 00-0134	EA		1 Gallon Lantana spp. Various Colors	20.09	
32 93 13 00-0135	EA		1 Gallon Lantana sellowiana - Trailing Lantana	13.22	
32 93 13 00-0136	EA		1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	27.46	
32 93 13 00-0137	EA		5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	98.46	
32 93 13 00-0138	EA		1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum	20.09	
32 93 13 00-0139	EA		1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	25.35	
32 93 13 00-0140	EA		3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	40.54	
32 93 13 00-0141	EA		1 Quart Moss Phlox, Creeping Phlox	14.20	
32 93 13 00-0142	EA		1 Gallon Moss Phlox, Creeping Phlox	34.08	
32 93 13 00-0143	EA		1 Gallon Nephrolepis exaltata - Common Boston Fern	17.88	
32 93 13 00-0144	EA		4" Pot Ophiopogon Japonicus - Mondo grass	8.52	
32 93 13 00-0145	EA		1 Gallon Ophiopogon Japonicus - Mondo grass	34.08	
32 93 13 00-0146	EA		5 Gallon Ophiopogon Japonicus - Mondo grass	78.58	
32 93 13 00-0147	EA		2' To 3' High Oregon Holly-Grape	39.34	
32 93 13 00-0148	EA		1 Gallon Pachysandra terminalis - Pachysandra	51.25	
32 93 13 00-0149	EA		2-1/4" Pot Vinca minor - Periwinkle	4.73	
32 93 13 00-0150	EA		4" Pot Vinca minor - Periwinkle	14.20	
32 93 13 00-0151	EA		Bare Root Vinca minor - Periwinkle	4.73	
32 93 13 00-0152	EA		1 Quart Nepeta mussinii - Persian Catmint	14.20	
32 93 13 00-0153	EA		1 Gallon Nepeta mussinii - Persian Catmint	29.35	
32 93 13 00-0154	EA		1 Gallon Coprosma kirkii - Prostrate Coprosma	23.67	
32 93 13 00-0155	EA		5 Gallon Coprosma kirkii - Prostrate Coprosma	86.15	
32 93 13 00-0156	EA		1 Gallon Juniperus Horizontalis - Prostrate Juniper	38.82	
32 93 13 00-0157	EA		3 Gallon Juniperus Horizontalis - Prostrate Juniper	83.31	
32 93 13 00-0158	EA		5 Gallon Juniperus Horizontalis - Prostrate Juniper	123.08	
32 93 13 00-0159	EA		1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	33.80	
32 93 13 00-0160	EA		1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	87.60	
32 93 13 00-0161	EA		24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	146.75	
32 93 13 00-0162	EA		1 Gallon Tradescantia spathacea - Rhoen Discolor "Dwarf"	17.88	
32 93 13 00-0163	EA		1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	19.88	
32 93 13 00-0164	EA		1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	35.50	
32 93 13 00-0165	EA		2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	55.39	
32 93 13 00-0166	EA		1 Gallon Hymenocallis latifolia - Spider Lily	22.04	
32 93 13 00-0167	EA		3 Gallon Hymenocallis latifolia - Spider Lily	58.77	
32 93 13 00-0168	EA		1 Quart Hypericum perforatum - St. John's Wort	14.20	
32 93 13 00-0169	EA		1 Gallon Hypericum perforatum - St. John's Wort	34.08	
32 93 13 00-0170	EA		5 Gallon Hypericum perforatum - St. John's Wort	88.05	
32 93 13 00-0171	EA		24" To 30" High Viburnum awabuki - Sweet Viburnum	119.82	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 13 00-0172	EA	1 Gallon Campsis radicans - Trumpet Creeper.....	52.07	
32 93 13 00-0173	EA	2 Gallon Campsis radicans - Trumpet Creeper.....	78.58	
32 93 13 00-0174	EA	5 Gallon Campsis radicans - Trumpet Creeper.....	189.35	
32 93 13 00-0175	EA	2-1/4" Pot Vinca major - Variegated Greater Periwinkle	4.73	
32 93 13 00-0176	EA	4" Pot Vinca major - Variegated Greater Periwinkle	14.20	
32 93 13 00-0177	EA	Bare Root Vinca major - Variegated Greater Periwinkle	4.73	
32 93 13 00-0178	EA	1 Quart Carex hachijoensis - Variegated Japanese Sedge	25.56	
32 93 13 00-0179	EA	1 Gallon Carex hachijoensis - Variegated Japanese Sedge	35.50	
32 93 13 00-0180	EA	2 Gallon Carex hachijoensis - Variegated Japanese Sedge	55.39	
32 93 13 00-0181	EA	1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf.....	38.82	
32 93 13 00-0182	EA	2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena	17.99	
32 93 13 00-0183	EA	1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena	27.46	
32 93 13 00-0184	EA	48 Plant Flat Vinca minor - Lesser Periwinkle.....	168.74	
32 93 13 00-0185	EA	3" Pot Parthenocissus quinquefolia - Virginia Creeper	8.52	
32 93 13 00-0186	EA	1 Gallon Parthenocissus quinquefolia - Virginia Creeper.....	44.50	
32 93 13 00-0187	EA	1 Gallon Jasminum polyanthum - Winter Jasmine	34.08	
32 93 13 00-0188	EA	2 Gallon Jasminum polyanthum - Winter Jasmine	68.17	
32 93 13 00-0189	EA	5 Gallon Jasminum polyanthum - Winter Jasmine	118.34	
32 93 13 00-0190	EA	1 Gallon Cistaceae - Winkleaf Rock Rose	27.46	
32 93 13 00-0191	EA	5 Gallon Cistaceae - Winkleaf Rock Rose	93.73	
32 93 13 00-0192	EA	Flat Hedera canariensis - Algerian Ivy	26.50	
32 93 13 00-0193	EA	2-1/2" Pot Hedera canariensis - Algerian Ivy	7.00	
32 93 13 00-0194	EA	Flat Gazania 'Copper King'	21.73	
32 93 13 00-0195	EA	1 Gallon Gazania 'Copper King'	7.42	
32 93 13 00-0196	EA	Flat Myoporum parvifolium - Myoporum.....	26.50	
32 93 13 00-0197	EA	1 Gallon Myoporum parvifolium - Myoporum	7.42	
32 93 13 00-0198	EA	5 Gallon Myoporum parvifolium - Myoporum	21.20	
32 93 13 00-0199	EA	1 Gallon Lantana montevidensis - Purple Lantana	7.42	
32 93 13 00-0200	EA	5 Gallon Lantana montevidensis - Purple Lantana	21.20	
32 93 13 00-0201	EA	Flat Carpobrotus - Ice Plant.....	20.14	
32 93 13 00-0202	EA	1 Gallon Carpobrotus - Ice Plant.....	8.48	

32 93 23 Plants and Bulbs (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93 23 00-0002	EA	2 Quart Assorted Daylilies	27.46	
32 93 23 00-0003	EA	1 Gallon Assorted Daylilies	38.82	
32 93 23 00-0004	EA	2 Gallon Assorted Daylilies	64.38	
32 93 23 00-0005	EA	1 Quart Azure Penstemon	14.20	
32 93 23 00-0006	EA	1 Gallon Azure Penstemon	35.50	
32 93 23 00-0007	EA	1 Quart Balloon Flower	14.20	
32 93 23 00-0008	EA	1 Gallon Balloon Flower.....	35.50	
32 93 23 00-0009	EA	1 Quart Black-eyed Susan	14.20	
32 93 23 00-0010	EA	1 Gallon Black-eyed Susan.....	35.50	
32 93 23 00-0011	EA	2 Gallon Black-eyed Susan	45.92	
32 93 23 00-0012	EA	1 Quart Blackberry Lily	14.20	
32 93 23 00-0013	EA	1 Gallon Blackberry Lily	35.50	
32 93 23 00-0014	EA	1 Quart Blank Flower	14.20	
32 93 23 00-0015	EA	1 Gallon Blank Flower.....	32.66	
32 93 23 00-0016	EA	2 Gallon Blank Flower.....	45.92	
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather	14.20	
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather	35.50	
32 93 23 00-0019	EA	1 Quart Bloodred Geranium.....	24.14	
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium	40.71	
32 93 23 00-0021	EA	1 Quart Blue Plumbago.....	14.20	
32 93 23 00-0022	EA	1 Gallon Blue Plumbago	35.50	
32 93 23 00-0023	EA	1 Quart Blue Star	25.56	
32 93 23 00-0024	EA	1 Gallon Blue Star.....	40.71	
32 93 23 00-0025	EA	1 Quart Cardinal Flower.....	14.20	
32 93 23 00-0026	EA	1 Gallon Cardinal Flower	35.50	
32 93 23 00-0027	EA	4" Pot Columbine.....	8.52	
32 93 23 00-0028	EA	1 Quart Columbine.....	14.20	
32 93 23 00-0029	EA	1 Gallon Columbine	35.50	
32 93 23 00-0030	EA	1 Quart Common Globeflower	14.20	
32 93 23 00-0031	EA	1 Gallon Common Globeflower.....	35.50	
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink	14.20	
32 93 23 00-0033	EA	1 Quart Cottage Pink, Scotch Pink	35.50	
32 93 23 00-0034	EA	1 Gallon Astilbe 'Deutschland'	51.13	
32 93 23 00-0035	EA	1 Quart Diploid.....	17.99	
32 93 23 00-0036	EA	1 Gallon Diploid	40.71	
32 93 23 00-0037	EA	3 Gallon Diploid	70.06	
32 93 23 00-0038	EA	4" Pot Dune Sunflower.....	20.27	
32 93 23 00-0039	EA	1 Quart Evans Begonia.....	25.56	
32 93 23 00-0040	EA	1 Gallon Evans Begonia	45.92	
32 93 23 00-0041	EA	1 Quart False Dragonhead	14.20	
32 93 23 00-0042	EA	1 Gallon False Dragonhead	35.50	
32 93 23 00-0043	EA	1 Quart False Spirea.....	14.20	
32 93 23 00-0044	EA	1 Gallon False Spirea	45.92	
32 93 23 00-0045	EA	3 Gallon False Spirea	63.43	
32 93 23 00-0046	EA	2 Quart False Sunflower	22.72	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0047	EA	1	Gallon False Sunflower.....	35.50	
32 93 23 00-0048	EA	2	Gallon False Sunflower.....	45.92	
32 93 23 00-0049	EA	1	Gallon Foxglove.....	32.66	
32 93 23 00-0050	EA	2	Gallon Foxglove.....	45.92	
32 93 23 00-0051	EA	3	Gallon Foxglove.....	66.27	
32 93 23 00-0052	EA	1	Gallon Francee Hostas.....	57.49	
32 93 23 00-0053	EA	1	Quart Garden Phlox.....	14.20	
32 93 23 00-0054	EA	1	Gallon Garden Phlox.....	35.50	
32 93 23 00-0055	EA	2	Quart Golden Groundsel.....	30.29	
32 93 23 00-0056	EA	2	Gallon Golden Groundsel.....	61.07	
32 93 23 00-0057	EA	1	Quart Golden Star.....	14.20	
32 93 23 00-0058	EA	1	Gallon Golden Star.....	35.50	
32 93 23 00-0059	EA	1	Quart Goldenrod.....	14.20	
32 93 23 00-0060	EA	1	Gallon Goldenrod.....	35.50	
32 93 23 00-0061	EA	1	Gallon Happy Returns Daylillies.....	66.12	
32 93 23 00-0062	EA	4"	Pot Hardy Aster, Michaelmas Daisy.....	8.52	
32 93 23 00-0063	EA	1	Quart Hardy Aster, Michaelmas Daisy.....	14.20	
32 93 23 00-0064	EA	1	Gallon Hardy Aster, Michaelmas Daisy.....	35.50	
32 93 23 00-0065	EA	1	Quart Hardy Chrysanthemum.....	12.31	
32 93 23 00-0066	EA	6" To 8"	Pot Hardy Chrysanthemum.....	20.36	
32 93 23 00-0067	EA	1	Gallon Hardy Chrysanthemum.....	32.66	
32 93 23 00-0068	EA	1	Gallon Herbaceous Peony.....	50.65	
32 93 23 00-0069	EA	2	Gallon Herbaceous Peony.....	80.95	
32 93 23 00-0070	EA	3	Gallon Herbaceous Peony.....	106.52	
32 93 23 00-0071	EA	4"	Pot Japanese Anemone.....	8.52	
32 93 23 00-0072	EA	1	Quart Japanese Anemone.....	25.56	
32 93 23 00-0073	EA	2	Gallon Japanese Anemone.....	45.92	
32 93 23 00-0074	EA	2"	Pot Japanese Spurge.....	5.05	
32 93 23 00-0075	EA	6"	Pot Japanese Spurge.....	7.57	
32 93 23 00-0076	EA	1	Gallon Japanese Spurge.....	32.61	
32 93 23 00-0077	EA	1	Quart Oriental Poppy.....	20.36	
32 93 23 00-0078	EA	1	Gallon Oriental Poppy.....	40.71	
32 93 23 00-0079	EA	48	Plant Flat Pachysandra terminalis.....	168.74	
32 93 23 00-0080	EA	1	Gallon Pacific Coast Iris.....	27.93	
32 93 23 00-0081	EA	3	Gallon Pacific Coast Iris.....	53.03	
32 93 23 00-0082	EA	1	Gallon Palace Purple Coral Bells.....	53.76	
32 93 23 00-0083	EA	4"	Pot Perennial Salvia.....	8.52	
32 93 23 00-0084	EA	1	Quart Perennial Salvia.....	14.20	
32 93 23 00-0085	EA	1	Gallon Perennial Salvia.....	35.50	
32 93 23 00-0086	EA	1	Quart Pincushion Flower.....	14.20	
32 93 23 00-0087	EA	1	Gallon Pincushion Flower.....	35.50	
32 93 23 00-0088	EA	2	Quart Plantain Lily.....	27.46	
32 93 23 00-0089	EA	1	Gallon Plantain Lily.....	38.82	
32 93 23 00-0090	EA	2	Gallon Plantain Lily.....	64.38	
32 93 23 00-0091	EA	3	Gallon Plantain Lily.....	121.67	
32 93 23 00-0092	EA	2	Quart Purple Coneflower.....	25.56	
32 93 23 00-0093	EA	1	Gallon Purple Coneflower.....	35.50	
32 93 23 00-0094	EA	2	Gallon Purple Coneflower.....	45.92	
32 93 23 00-0095	EA	1	Quart Purple Loosestrife.....	14.20	
32 93 23 00-0096	EA	1	Gallon Purple Loosestrife.....	35.50	
32 93 23 00-0097	EA	1	Quart Rose Mallow.....	27.93	
32 93 23 00-0098	EA	2	Gallon Rose Mallow.....	50.65	
32 93 23 00-0099	EA	3	Gallon Rose Mallow.....	86.63	
32 93 23 00-0100	EA	1	Gallon Autumn Joy Sedum.....	54.13	
32 93 23 00-0101	EA	1	Quart Siberian Iris.....	24.14	
32 93 23 00-0102	EA	2	Gallon Siberian Iris.....	45.92	
32 93 23 00-0103	EA	3	Gallon Siberian Iris.....	63.43	
32 93 23 00-0104	EA	1	Quart Speedwell.....	14.20	
32 93 23 00-0105	EA	1	Gallon Speedwell.....	35.50	
32 93 23 00-0106	EA	1	Quart Tetraploid.....	35.50	
32 93 23 00-0107	EA	1	Gallon Tetraploid.....	66.27	
32 93 23 00-0108	EA	3	Gallon Tetraploid.....	90.42	
32 93 23 00-0109	EA	1	Quart Threadleaf Coreopsis.....	14.20	
32 93 23 00-0110	EA	1	Gallon Threadleaf Coreopsis.....	35.50	
32 93 23 00-0111	EA	1	Quart Torch Lily.....	14.20	
32 93 23 00-0112	EA	1	Quart Bluebeard.....	25.56	
32 93 23 00-0113	EA	1	Gallon Bluebeard.....	37.87	
32 93 23 00-0114	EA	2	Gallon Bluebeard.....	55.39	
32 93 23 00-0115 Annuals (32 93 23)					
32 93 23 00-0116	EA	2-1/2"	Pot Annual Flowers.....	6.59	
32 93 23 00-0117	EA	3"	Pot Annual Flowers.....	8.92	
32 93 23 00-0118	EA	4"	Pot Annual Flowers.....	19.05	
32 93 23 00-0119	EA	5-1/2"	Pot Annual Flowers.....	25.34	
32 93 23 00-0120	EA	6"	Pot Annual Flowers.....	50.17	
32 93 23 00-0121	EA	8"	Pot Annual Flowers.....	83.61	
32 93 23 00-0122	EA	36	Plant Flat Annual Flowers.....	109.46	
32 93 23 00-0123	EA	48	Plant Flat Annual Flowers.....	124.15	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 23 00-0124**Bulbs** (32 93 23)

32 93 23 00-0125	EA	Top Size Allium giganteum - Giant Ornamental Onion	22.91
32 93 23 00-0126	EA	Top Size Allium sphaerocephalum - Drumstick Ornamental Onion	1.32
32 93 23 00-0127	EA	Top Size Crocus Hybrid	1.50
32 93 23 00-0128	EA	Top Size Eranthis hyemalis - Winter Aconite	1.94
32 93 23 00-0129	EA	Top Size Galanthus nivalis - Snowdrops	2.47
32 93 23 00-0130	EA	Top Size Iris reticulata cvs - Dutch Iris	0.97
32 93 23 00-0131	EA	Top Size Muscari armeniacum - Grape Hyacinth	1.15
32 93 23 00-0132	EA	Top Size Muscari latifolium - Grape Hyacinth	1.32
32 93 23 00-0133	EA	Narcissus 'Carlton' - Carlton Daffodil DNI	7.93
32 93 23 00-0134	EA	Narcissus 'Dutch Master' - Dutch Master Daffodil DNI	3.79
32 93 23 00-0135	EA	Narcissus 'February Gold' - February Gold Daffodil DNI	3.97
32 93 23 00-0136	EA	Narcissus 'Ice Follies' - Ice Follies Daffodil DNI	3.97
32 93 23 00-0137	EA	Narcissus 'Mount Hood' - Mount Hood Daffodil DNI	4.14
32 93 23 00-0138	EA	Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI	4.41
32 93 23 00-0139	EA	Narcissus 'Pipit' - Pipit Daffodil DNI	4.14
32 93 23 00-0140	EA	Narcissus 'Salome' - Salome Daffodil DNI	3.88
32 93 23 00-0141	EA	Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI	4.14
32 93 23 00-0142	EA	Narcissus 'Thalia' - Thalia Daffodil DNI	4.14
32 93 23 00-0143	EA	Top Size Scilla siberica - Siberian Squill	1.23
32 93 23 00-0144	EA	Top Size Tulip 'Angelique' - Angelique Tulip	3.53
32 93 23 00-0145	EA	Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip	2.64
32 93 23 00-0146	EA	Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip	3.53
32 93 23 00-0147	EA	Top Size Tulip 'Big Smile' - Big Smile Tulip	3.08
32 93 23 00-0148	EA	Top Size Tulip 'Black Parrot' - Black Parrot Tulip	4.41
32 93 23 00-0149	EA	Top Size Tulip 'Blue Heron' - Blue Heron Tulip	3.35
32 93 23 00-0150	EA	Top Size Tulip 'Cardinal' - Cardinal Tulip	2.91
32 93 23 00-0151	EA	Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip	3.26
32 93 23 00-0152	EA	Top Size Tulip clusiana - Species Tulip	3.26
32 93 23 00-0153	EA	Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	3.26
32 93 23 00-0154	EA	Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	2.64
32 93 23 00-0155	EA	Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip	2.56
32 93 23 00-0156	EA	Top Size Tulip 'Halcro' - Halcro Tulip	2.64
32 93 23 00-0157	EA	Top Size Tulip 'Ivory Floridale' - Ivory Floridale Tulip	4.41
32 93 23 00-0158	EA	Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip	2.64
32 93 23 00-0159	EA	Top Size Tulip 'Passionale' - Passionale Tulip	3.53
32 93 23 00-0160	EA	Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip	3.79
32 93 23 00-0161	EA	Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip	3.97
32 93 23 00-0162	EA	Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip	3.17
32 93 23 00-0163	EA	Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip	3.00
32 93 23 00-0164	EA	Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	3.26
32 93 23 00-0165	EA	Top Size Tulip 'Princeps' - Princeps Tulip	3.26
32 93 23 00-0166	EA	Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip	2.56
32 93 23 00-0167	EA	Top Size Tulip saxatilis - Species Tulip	1.76
32 93 23 00-0168	EA	Top Size Tulip 'Shirley' - Shirley Tulip	2.64
32 93 23 00-0169	EA	Top Size Tulip 'Spring Green' - Spring Green Tulip	3.44
32 93 23 00-0170	EA	Top Size Tulip 'White Emperor' - White Emperor Tulip	2.64

32 93 33**Shrubs** (32 93)

Note: (cvs = cultivar or cultivated varieties) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.

32 93 33 00-0001**Shrubs** (32 93 33)

32 93 33 00-0002	EA	1 Gallon Abelia x grandiflora - Abelia	24.15
32 93 33 00-0003	EA	3 Gallon Abelia x grandiflora - Abelia	49.18
32 93 33 00-0004	EA	5 Gallon Abelia x grandiflora - Abelia	94.41
32 93 33 00-0005	EA	1 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	9.86
32 93 33 00-0006	EA	5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	24.38
32 93 33 00-0007	EA	15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	96.78
32 93 33 00-0008	EA	3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	113.09
32 93 33 00-0009	EA	18" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	165.28
32 93 33 00-0010	EA	24" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	184.42
32 93 33 00-0011	EA	30" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	233.14
32 93 33 00-0012	EA	36" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	259.23
32 93 33 00-0013	EA	18" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	52.19
32 93 33 00-0014	EA	24" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	69.59
32 93 33 00-0015	EA	30" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	86.99
32 93 33 00-0016	EA	1 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	9.86
32 93 33 00-0017	EA	5 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	24.38
32 93 33 00-0018	EA	36" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	47.47
32 93 33 00-0019	EA	42" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	55.85
32 93 33 00-0020	EA	48" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	67.02
32 93 33 00-0021	EA	60" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	78.19
32 93 33 00-0022	EA	72" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	94.95
32 93 33 00-0023	EA	36" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	46.08
32 93 33 00-0024	EA	42" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	48.87
32 93 33 00-0025	EA	48" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	51.66
32 93 33 00-0026	EA	60" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	58.64
32 93 33 00-0027	EA	36" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	46.77
32 93 33 00-0028	EA	42" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	49.57

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0029 EA 48" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	52.36	
32 93 33 00-0030 EA 60" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	55.15	
32 93 33 00-0031 EA 1 Gallon Aspidistra elatior - Cast Iron Plant	9.60	
32 93 33 00-0032 EA 2 Gallon Aspidistra elatior - Cast Iron Plant	22.20	
32 93 33 00-0033 EA 1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	11.25	
32 93 33 00-0034 EA 3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	24.75	
32 93 33 00-0035 EA 5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	33.45	
32 93 33 00-0036 EA 1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	9.86	
32 93 33 00-0037 EA 5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	24.38	
32 93 33 00-0038 EA 1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	9.86	
32 93 33 00-0039 EA 5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	24.38	
32 93 33 00-0040 EA 1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	12.00	
32 93 33 00-0041 EA 2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	17.55	
32 93 33 00-0042 EA 15" To 18" Berberis - Northern Bayberry	50.10	
32 93 33 00-0043 EA 2' To 2-1/2' Berberis - Northern Bayberry	63.60	
32 93 33 00-0044 EA 2-1/2' To 3' Berberis - Northern Bayberry	89.10	
32 93 33 00-0045 EA 1 Gallon Berberis Buxifolia 'Nana' - Barberry	11.13	
32 93 33 00-0046 EA 5 Gallon Berberis Buxifolia 'Nana' - Barberry	26.82	
32 93 33 00-0047 EA 18" To 24" Berberis julianae - Dwarf Wintergreen Barberry	53.55	
32 93 33 00-0048 EA 2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry	68.55	
32 93 33 00-0049 EA 2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry	87.60	
32 93 33 00-0050 EA 1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	14.40	
32 93 33 00-0051 EA 2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	28.35	
32 93 33 00-0052 EA 3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	34.65	
32 93 33 00-0053 EA 1 Gallon Berberis x mentorensis - Mentor Barberry	13.65	
32 93 33 00-0054 EA 5 Gallon Berberis x mentorensis - Mentor Barberry	38.55	
32 93 33 00-0055 EA 2' To 3' Berberis x mentorensis - Mentor Barberry	53.55	
32 93 33 00-0056 EA 3' To 4' Berberis x mentorensis - Mentor Barberry	82.65	
32 93 33 00-0057 EA 1 Gallon Buxus microphylla japonica - Japanese Boxwood	15.60	
32 93 33 00-0058 EA 5 Gallon Buxus microphylla japonica - Japanese Boxwood	41.85	
32 93 33 00-0059 EA 12" To 15" Buxus microphylla japonica - Japanese Boxwood	44.55	
32 93 33 00-0060 EA 15" To 18" Buxus microphylla japonica - Japanese Boxwood	57.30	
32 93 33 00-0061 EA 18" To 24" Buxus microphylla japonica - Japanese Boxwood	76.35	
32 93 33 00-0062 EA 24" To 30" Buxus microphylla japonica - Japanese Boxwood	114.60	
32 93 33 00-0063 EA 30" To 36" Buxus microphylla japonica - Japanese Boxwood	159.15	
32 93 33 00-0064 EA 12" To 15" Buxus sempervirens - Common Boxwood	44.55	
32 93 33 00-0065 EA 15" To 18" Buxus sempervirens - Common Boxwood	57.30	
32 93 33 00-0066 EA 18" To 24" Buxus sempervirens - Common Boxwood	76.35	
32 93 33 00-0067 EA 24" To 30" Buxus sempervirens - Common Boxwood	114.60	
32 93 33 00-0068 EA 2 Gallon Buxus Hybrid - Boxwood Cultivars	29.32	
32 93 33 00-0069 EA 5 Gallon Buxus Hybrid - Boxwood Cultivars	48.87	
32 93 33 00-0070 EA 5 Gallon Buxus microphylla & cvs - Little leaf Boxwood	128.46	
32 93 33 00-0071 EA 18" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	69.81	
32 93 33 00-0072 EA 24" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	94.95	
32 93 33 00-0073 EA 30" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	128.46	
32 93 33 00-0074 EA 1 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush	10.54	
32 93 33 00-0075 EA 5 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush	32.43	
32 93 33 00-0076 EA 15 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush	105.39	
32 93 33 00-0077 EA 5 Gallon Calycanthus floridus - Common Sweetshrub	46.08	
32 93 33 00-0078 EA 30" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub	41.89	
32 93 33 00-0079 EA 36" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub	55.85	
32 93 33 00-0080 EA 1 Gallon Camellia "Sasanqua" - Camellia	17.89	
32 93 33 00-0081 EA 3 Gallon Camellia "Sasanqua" - Camellia	38.16	
32 93 33 00-0082 EA 5 Gallon Camellia "Sasanqua" - Camellia	63.45	
32 93 33 00-0083 EA 7 Gallon Camellia "Sasanqua" - Camellia	94.48	
32 93 33 00-0084 EA 15 Gallon Camellia "Sasanqua" - Camellia	245.13	
32 93 33 00-0085 EA 1 Gallon Camellia japonica - Camellia	17.89	
32 93 33 00-0086 EA 3 Gallon Camellia japonica - Camellia	38.16	
32 93 33 00-0087 EA 5 Gallon Camellia japonica - Camellia	63.45	
32 93 33 00-0088 EA 5 Gallon Ceanothus americanus - New Jersey Tea	46.08	
32 93 33 00-0089 EA 1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	11.13	
32 93 33 00-0090 EA 5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	28.94	
32 93 33 00-0091 EA 5 Gallon Celastrus scandens - Bittersweet	46.08	
32 93 33 00-0092 EA 36" Balled and Burlapped, Celastrus scandens - Bittersweet	39.10	
32 93 33 00-0093 EA 5 Gallon Cephalanthus occidentalis - Buttonbush	46.08	
32 93 33 00-0094 EA 24" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	34.91	
32 93 33 00-0095 EA 30" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	39.10	
32 93 33 00-0096 EA 36" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	41.89	
32 93 33 00-0097 EA 18" To 24" Chaenomeles speciosa - Flowering Quince	40.20	
32 93 33 00-0098 EA 2' To 3' Chaenomeles speciosa - Flowering Quince	53.55	
32 93 33 00-0099 EA 3' To 4' Chaenomeles speciosa - Flowering Quince	82.65	
32 93 33 00-0100 EA 1 Gallon Cistus Hybridus - White Rockrose	9.86	
32 93 33 00-0101 EA 5 Gallon Cistus Hybridus - White Rockrose	24.38	
32 93 33 00-0102 EA 3 Gallon Clethra alnifolia & cvs - Summersweet Clethra	44.68	
32 93 33 00-0103 EA 18" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	48.17	
32 93 33 00-0104 EA 24" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	53.76	
32 93 33 00-0105 EA 30" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	56.55	
32 93 33 00-0106 EA 36" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	66.32	
32 93 33 00-0107 EA 1 Gallon Coleonema Pulchellum - Confetti Bush	9.86	
32 93 33 00-0108 EA 5 Gallon Coleonema Pulchellum - Confetti Bush	24.38	
32 93 33 00-0109 EA 15 Gallon Coleonema Pulchellum - Confetti Bush	114.17	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0110	EA	2' To 3' Cornus mas - Cornelian Cherry	63.60
32 93 33 00-0111	EA	3' To 4' Cornus mas - Cornelian Cherry	79.50
32 93 33 00-0112	EA	4' To 5' Cornus mas - Cornelian Cherry	101.85
32 93 33 00-0113	EA	5' To 6' Cornus mas - Cornelian Cherry	139.95
32 93 33 00-0114	EA	5 Gallon Cornus alba & cvs - Tartarian Dogwood	41.89
32 93 33 00-0115	EA	36" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	29.32
32 93 33 00-0116	EA	48" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	33.51
32 93 33 00-0117	EA	60" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	41.89
32 93 33 00-0118	EA	72" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	50.27
32 93 33 00-0119	EA	36" Balled and Burlapped, Cornus amomum - Silky Dogwood	41.89
32 93 33 00-0120	EA	5 Gallon Cornus obliqua - Blue Fruited Dogwood	46.08
32 93 33 00-0121	EA	5 Gallon Cornus racemosa - Gray Dogwood	46.08
32 93 33 00-0122	EA	36" Balled and Burlapped, Cornus racemosa - Gray Dogwood	41.89
32 93 33 00-0123	EA	48" Balled and Burlapped, Cornus racemosa - Gray Dogwood	48.87
32 93 33 00-0124	EA	60" Balled and Burlapped, Cornus racemosa - Gray Dogwood	53.06
32 93 33 00-0125	EA	72" Balled and Burlapped, Cornus racemosa - Gray Dogwood	64.23
32 93 33 00-0126	EA	36" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	45.38
32 93 33 00-0127	EA	48" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	50.96
32 93 33 00-0128	EA	60" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	57.94
32 93 33 00-0129	EA	24" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	36.30
32 93 33 00-0130	EA	30" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	41.89
32 93 33 00-0131	EA	36" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	44.68
32 93 33 00-0132	EA	48" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	48.87
32 93 33 00-0133	EA	60" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	54.45
32 93 33 00-0134	EA	5 Gallon Corylus americana - American Filbert	43.28
32 93 33 00-0135	EA	30" Balled and Burlapped, Corylus americana - American Filbert	48.87
32 93 33 00-0136	EA	36" Balled and Burlapped, Corylus americana - American Filbert	52.36
32 93 33 00-0137	EA	48" Balled and Burlapped, Corylus americana - American Filbert	56.55
32 93 33 00-0138	EA	24" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	139.63
32 93 33 00-0139	EA	30" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	181.51
32 93 33 00-0140	EA	36" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	195.48
32 93 33 00-0141	EA	42" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	251.33
32 93 33 00-0142	EA	48" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	307.18
32 93 33 00-0143	EA	60" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	349.07
32 93 33 00-0144	EA	5' To 6' Cotinus coggygia - Smoke Tree	133.65
32 93 33 00-0145	EA	6' To 8' Cotinus coggygia - Smoke Tree	200.40
32 93 33 00-0146	EA	8' To 10' Cotinus coggygia - Smoke Tree	302.24
32 93 33 00-0147	EA	5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster	34.91
32 93 33 00-0148	EA	18" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	34.91
32 93 33 00-0149	EA	24" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	36.30
32 93 33 00-0150	EA	12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster	33.45
32 93 33 00-0151	EA	3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster	36.30
32 93 33 00-0152	EA	18" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	34.91
32 93 33 00-0153	EA	24" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	36.30
32 93 33 00-0154	EA	1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster	14.40
32 93 33 00-0155	EA	2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster	44.55
32 93 33 00-0156	EA	3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster	60.15
32 93 33 00-0157	EA	4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster	101.85
32 93 33 00-0158	EA	1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	9.86
32 93 33 00-0159	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	24.38
32 93 33 00-0160	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	14.40
32 93 33 00-0161	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	28.35
32 93 33 00-0162	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry	9.86
32 93 33 00-0163	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry	24.38
32 93 33 00-0164	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry	96.78
32 93 33 00-0165	EA	1 Gallon Dendromecon harfordii - Island Bush Poppy	27.02
32 93 33 00-0166	EA	5 Gallon Dendromecon harfordii - Island Bush Poppy	67.56
32 93 33 00-0167	EA	18" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	35.60
32 93 33 00-0168	EA	24" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	39.10
32 93 33 00-0169	EA	30" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	50.27
32 93 33 00-0170	EA	36" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	58.64
32 93 33 00-0171	EA	42" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	67.02
32 93 33 00-0172	EA	24" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	55.85
32 93 33 00-0173	EA	30" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	67.02
32 93 33 00-0174	EA	36" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	78.19
32 93 33 00-0175	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle	20.94
32 93 33 00-0176	EA	36" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	50.27
32 93 33 00-0177	EA	48" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	67.02
32 93 33 00-0178	EA	5 Gallon Elaeagnus angustifolia - Russian Olive	24.38
32 93 33 00-0179	EA	1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	9.86
32 93 33 00-0180	EA	5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	24.38
32 93 33 00-0181	EA	15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	96.78
32 93 33 00-0182	EA	1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	9.86
32 93 33 00-0183	EA	5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	24.38
32 93 33 00-0184	EA	15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	96.78
32 93 33 00-0185	EA	3' To 4' Elaeagnus umbellata - Autumn Olive	41.70
32 93 33 00-0186	EA	4' To 5' Elaeagnus umbellata - Autumn Olive	57.30
32 93 33 00-0187	EA	5' To 6' Elaeagnus umbellata - Autumn Olive	68.55
32 93 33 00-0188	EA	3' To 4' Elaeagnus angustifolia - Russian Olive	66.75
32 93 33 00-0189	EA	1 Gallon Escallonia x exoniensis 'Fradesi' - Pink Princess Escallonia	9.86
32 93 33 00-0190	EA	5 Gallon Escallonia x exoniensis 'Fradesi' - Pink Princess Escallonia	24.38

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0191 EA 15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	96.78	
32 93 33 00-0192 EA 1 Gallon Euonymus - Gold Spot	12.00	
32 93 33 00-0193 EA 2 Gallon Euonymus - Gold Spot	25.20	
32 93 33 00-0194 EA 5 Gallon Euonymus - Gold Spot	34.65	
32 93 33 00-0195 EA 1 Gallon Euonymus alatus - Winged Euonymus.....	10.24	
32 93 33 00-0196 EA 3 Gallon Euonymus alatus - Winged Euonymus.....	29.54	
32 93 33 00-0197 EA 24" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	39.82	
32 93 33 00-0198 EA 30" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	49.78	
32 93 33 00-0199 EA 36" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	68.40	
32 93 33 00-0200 EA 42" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	84.46	
32 93 33 00-0201 EA 48" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	99.55	
32 93 33 00-0202 EA 54" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	128.46	
32 93 33 00-0203 EA 5 Gallon Euonymus alatus - Winged Euonymus.....	36.93	
32 93 33 00-0204 EA 60" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	160.57	
32 93 33 00-0205 EA 30" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	62.83	
32 93 33 00-0206 EA 36" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	74.70	
32 93 33 00-0207 EA 42" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	97.74	
32 93 33 00-0208 EA 48" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	117.29	
32 93 33 00-0209 EA 60" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	145.21	
32 93 33 00-0210 EA 18" To 24" Euonymus alatus - Winged Burning Bush.....	44.55	
32 93 33 00-0211 EA 2' To 2-1/2' Euonymus alatus - Winged Burning Bush.....	52.50	
32 93 33 00-0212 EA 2-1/2' To 3' Euonymus alatus - Winged Burning Bush.....	71.70	
32 93 33 00-0213 EA 3' To 3-1/2' Euonymus alatus - Winged Burning Bush.....	85.95	
32 93 33 00-0214 EA 3-1/2' To 4' Euonymus alatus - Winged Burning Bush.....	108.15	
32 93 33 00-0215 EA 4' To 5' Euonymus alatus - Winged Burning Bush.....	152.70	
32 93 33 00-0216 EA 5' To 6' Euonymus alatus - Winged Burning Bush.....	190.95	
32 93 33 00-0217 EA 6' To 8' Euonymus alatus - Winged Burning Bush.....	222.75	
32 93 33 00-0218 EA 15" To 18" Euonymus alatus - Dwarf Winged Burning Bush.....	44.55	
32 93 33 00-0219 EA 18" To 24" Euonymus alatus - Dwarf Winged Burning Bush.....	50.85	
32 93 33 00-0220 EA 2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	62.10	
32 93 33 00-0221 EA 2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush.....	87.60	
32 93 33 00-0222 EA 3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	103.50	
32 93 33 00-0223 EA 3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush.....	124.05	
32 93 33 00-0224 EA 4' To 5' Euonymus alatus - Dwarf Winged Burning Bush.....	175.05	
32 93 33 00-0225 EA 5' To 6' Euonymus alatus - Dwarf Winged Burning Bush.....	206.85	
32 93 33 00-0226 EA 36" Balled and Burlapped, Euonymus atropurpurea - Eastern Wahoo	37.70	
32 93 33 00-0227 EA 1 Gallon Euonymus fortunei - Wintercreeper.....	14.40	
32 93 33 00-0228 EA 2 Gallon Euonymus fortunei - Wintercreeper.....	28.35	
32 93 33 00-0229 EA 3 Gallon Euonymus fortunei - Wintercreeper.....	34.65	
32 93 33 00-0230 EA 5 Gallon Euonymus fortunei - Wintercreeper.....	41.10	
32 93 33 00-0231 EA 1 Gallon Euonymus japonicus - Evergreen Spindle.....	9.86	
32 93 33 00-0232 EA 5 Gallon Euonymus japonicus - Evergreen Spindle.....	24.38	
32 93 33 00-0233 EA 15 Gallon Euonymus japonicus - Evergreen Spindle.....	96.78	
32 93 33 00-0234 EA 2' To 3' Forsythia - Korean Forsythia	31.80	
32 93 33 00-0235 EA 3' To 4' Forsythia - Korean Forsythia	40.20	
32 93 33 00-0236 EA 4' To 5' Forsythia - Korean Forsythia	50.10	
32 93 33 00-0237 EA 30" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	32.11	
32 93 33 00-0238 EA 36" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	35.60	
32 93 33 00-0239 EA 48" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	38.40	
32 93 33 00-0240 EA 18" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	33.51	
32 93 33 00-0241 EA 24" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	44.68	
32 93 33 00-0242 EA 24" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	33.51	
32 93 33 00-0243 EA 30" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	39.10	
32 93 33 00-0244 EA 36" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	46.08	
32 93 33 00-0245 EA 42" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	53.06	
32 93 33 00-0246 EA 48" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	61.44	
32 93 33 00-0247 EA 2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	47.47	
32 93 33 00-0248 EA 3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	66.32	
32 93 33 00-0249 EA 5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	69.81	
32 93 33 00-0250 EA 15" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	72.61	
32 93 33 00-0251 EA 18" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	78.19	
32 93 33 00-0252 EA 24" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	94.95	
32 93 33 00-0253 EA 24" Balled and Burlapped, Fothergilla major - Large Fothergilla.....	122.87	
32 93 33 00-0254 EA 30" Balled and Burlapped, Fothergilla major - Large Fothergilla.....	139.63	
32 93 33 00-0255 EA 1 Gallon Gardenia jasminoides - Cape Jasmine.....	10.35	
32 93 33 00-0256 EA 3 Gallon Gardenia jasminoides - Cape Jasmine.....	27.15	
32 93 33 00-0257 EA 5 Gallon Gardenia jasminoides - Cape Jasmine.....	34.65	
32 93 33 00-0258 EA 1 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	9.86	
32 93 33 00-0259 EA 5 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	24.38	
32 93 33 00-0260 EA 15 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	96.78	
32 93 33 00-0261 EA 36" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	97.74	
32 93 33 00-0262 EA 48" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	159.17	
32 93 33 00-0263 EA 60" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	201.06	
32 93 33 00-0264 EA 72" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	307.18	
32 93 33 00-0265 EA 84" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	349.07	
32 93 33 00-0266 EA 1 Gallon Hedychium gartdnerum - Variegated Ginger.....	5.94	
32 93 33 00-0267 EA 3 Gallon Hedychium gartdnerum - Variegated Ginger.....	20.87	
32 93 33 00-0268 EA 5 Gallon Hedychium gartdnerum - Variegated Ginger.....	40.14	
32 93 33 00-0269 EA 1 Gallon Hibiscus rosa-sinensis - Hibiscus.....	15.22	
32 93 33 00-0270 EA 3 Gallon Hibiscus rosa-sinensis - Hibiscus.....	25.69	
32 93 33 00-0271 EA 5 Gallon Hibiscus rosa-sinensis - Hibiscus.....	38.86	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT
UNIT COST DEMOLITION
UNIT COST

32 93 33 00-0272	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon	40.20	
32 93 33 00-0273	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon	34.20	
32 93 33 00-0274	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon	46.20	
32 93 33 00-0275	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon	66.75	
32 93 33 00-0276	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon	92.25	
32 93 33 00-0277	EA	2 Gallon Hydrangea - Blue Hydrangea	28.35	
32 93 33 00-0278	EA	5 Gallon Hydrangea - Blue Hydrangea	39.90	
32 93 33 00-0279	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	44.55	
32 93 33 00-0280	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	50.85	
32 93 33 00-0281	EA	2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea	28.35	
32 93 33 00-0282	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	48.87	
32 93 33 00-0283	EA	30" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	53.06	
32 93 33 00-0284	EA	36" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	61.44	
32 93 33 00-0285	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	64.23	
32 93 33 00-0286	EA	18" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	50.27	
32 93 33 00-0287	EA	24" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	67.02	
32 93 33 00-0288	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	29.32	
32 93 33 00-0289	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	34.91	
32 93 33 00-0290	EA	18" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	30.02	
32 93 33 00-0291	EA	24" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	32.11	
32 93 33 00-0292	EA	30" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	36.30	
32 93 33 00-0293	EA	36" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	41.89	
32 93 33 00-0294	EA	48" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	55.85	
32 93 33 00-0295	EA	18" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	40.49	
32 93 33 00-0296	EA	24" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	46.08	
32 93 33 00-0297	EA	30" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	54.45	
32 93 33 00-0298	EA	2 Gallon Hypericum kalmianum - St. John's Wort	28.35	
32 93 33 00-0299	EA	3 Gallon Hypericum kalmianum - Kalm St. John's Wort	33.51	
32 93 33 00-0300	EA	24" Balled and Burlapped, Hypericum kalmianum - Kalm St. John's Wort	36.30	
32 93 33 00-0301	EA	1 Gallon Ilex "Carissa" - Holly	14.40	
32 93 33 00-0302	EA	2 Gallon Ilex "Carissa" - Holly	28.35	
32 93 33 00-0303	EA	5 Gallon Ilex "Carissa" - Holly	39.90	
32 93 33 00-0304	EA	18" To 24" Ilex - Gulfside Sweet Holly	38.25	
32 93 33 00-0305	EA	2' To 2-1/2' Ilex - Gulfside Sweet Holly	48.45	
32 93 33 00-0306	EA	2-1/2' To 3' Ilex - Gulfside Sweet Holly	62.85	
32 93 33 00-0307	EA	3' To 3-1/2' Ilex - Gulfside Sweet Holly	76.35	
32 93 33 00-0308	EA	3 Gallon Ilex cornuta - Dwarf Horned Holly	28.57	
32 93 33 00-0309	EA	1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	14.40	
32 93 33 00-0310	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	28.35	
32 93 33 00-0311	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	41.10	
32 93 33 00-0312	EA	1 Gallon Ilex crenata - Hellers Japanese Holly	14.40	
32 93 33 00-0313	EA	2 Gallon Ilex crenata - Hellers Japanese Holly	31.50	
32 93 33 00-0314	EA	3 Gallon Ilex crenata - Hellers Japanese Holly	41.10	
32 93 33 00-0315	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly	31.50	
32 93 33 00-0316	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly	37.95	
32 93 33 00-0317	EA	2' To 3' Ilex crenata - Hetzi Japanese Holly	76.35	
32 93 33 00-0318	EA	3' To 4' Ilex crenata - Hetzi Japanese Holly	101.85	
32 93 33 00-0319	EA	2' To 3' Ilex opaca - American Holly	101.85	
32 93 33 00-0320	EA	3' To 4' Ilex opaca - American Holly	168.60	
32 93 33 00-0321	EA	4' To 5' Ilex opaca - American Holly	216.30	
32 93 33 00-0322	EA	5' To 6' Ilex opaca - American Holly	260.84	
32 93 33 00-0323	EA	6' To 7' Ilex opaca - American Holly	365.84	
32 93 33 00-0324	EA	7' To 8' Ilex opaca - American Holly	509.09	
32 93 33 00-0325	EA	8' To 10' Ilex opaca - American Holly	731.69	
32 93 33 00-0326	EA	10' To 12' Ilex opaca - American Holly	1,113.58	
32 93 33 00-0327	EA	12' To 14' Ilex opaca - American Holly	1,352.07	
32 93 33 00-0328	EA	14' To 16' Ilex opaca - American Holly	1,670.22	
32 93 33 00-0329	EA	2' To 3' Ilex verticillata - Winterberry (Female)	101.85	
32 93 33 00-0330	EA	3' To 4' Ilex verticillata - Winterberry (Female)	133.65	
32 93 33 00-0331	EA	2' To 3' Ilex verticillata - Winterberry (Male)	82.65	
32 93 33 00-0332	EA	3' To 4' Ilex verticillata - Winterberry (Male)	114.60	
32 93 33 00-0333	EA	4' To 5' Ilex verticillata - Winterberry (Male)	133.65	
32 93 33 00-0334	EA	1 Gallon Ilex vomitoria - Yaupon Holly	13.50	
32 93 33 00-0335	EA	3 Gallon Ilex vomitoria - Yaupon Holly	27.15	
32 93 33 00-0336	EA	10 Gallon Ilex vomitoria - Yaupon Holly	95.40	
32 93 33 00-0337	EA	18" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	43.28	
32 93 33 00-0338	EA	24" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	48.87	
32 93 33 00-0339	EA	3 Gallon Ilex meserveae & cvs - Blue Holly	55.85	
32 93 33 00-0340	EA	18" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	51.66	
32 93 33 00-0341	EA	24" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	62.83	
32 93 33 00-0342	EA	5 Gallon Ilex verticillata & cvs - Common Winterberry	46.08	
32 93 33 00-0343	EA	24" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	46.08	
32 93 33 00-0344	EA	30" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	48.87	
32 93 33 00-0345	EA	36" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	58.64	
32 93 33 00-0346	EA	42" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	65.62	
32 93 33 00-0347	EA	48" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	69.81	
32 93 33 00-0348	EA	60" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	89.36	
32 93 33 00-0349	EA	4' To 5' Ilex x attenuata "Foster" - Holly	165.45	
32 93 33 00-0350	EA	5' To 6' Ilex x attenuata "Foster" - Holly	219.44	
32 93 33 00-0351	EA	6' To 7' Ilex x attenuata "Foster" - Holly	196.34	
32 93 33 00-0352	EA	7' To 8' Ilex x attenuata "Foster" - Holly	381.74	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0353	EA	1 Gallon Jasimnum - Jasmine.....	3.69	
32 93 33 00-0354	EA	3 Gallon Jasimnum - Jasmine.....	14.45	
32 93 33 00-0355	EA	3 Gallon Jasimnum - Orange Jasmine.....	11.24	
32 93 33 00-0356	EA	4' - 5' Jasimnum - Orange Jasmine	128.46	
32 93 33 00-0357	EA	6' - 7' Jasimnum - Orange Jasmine	256.91	
32 93 33 00-0358	EA	8' - 10' Jasimnum - Orange Jasmine	346.83	
32 93 33 00-0359	EA	3 Gallon Juniperus chinensis cvs - Chinese Juniper.....	48.87	
32 93 33 00-0360	EA	5 Gallon Juniperus chinensis cvs - Chinese Juniper.....	54.45	
32 93 33 00-0361	EA	18" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	72.61	
32 93 33 00-0362	EA	24" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	94.95	
32 93 33 00-0363	EA	30" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	111.70	
32 93 33 00-0364	EA	36" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	150.80	
32 93 33 00-0365	EA	48" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	206.65	
32 93 33 00-0366	EA	1 Gallon Juniperus horizontalis cvs - Creeping Juniper	23.28	
32 93 33 00-0367	EA	3 Gallon Juniperus horizontalis cvs - Creeping Juniper	48.87	
32 93 33 00-0368	EA	5 Gallon Juniperus horizontalis cvs - Creeping Juniper	54.45	
32 93 33 00-0369	EA	15" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	58.64	
32 93 33 00-0370	EA	18" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	64.23	
32 93 33 00-0371	EA	24" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	78.19	
32 93 33 00-0372	EA	30" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	94.95	
32 93 33 00-0373	EA	3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper.....	37.70	
32 93 33 00-0374	EA	18" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	44.68	
32 93 33 00-0375	EA	24" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	61.44	
32 93 33 00-0376	EA	30" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	78.19	
32 93 33 00-0377	EA	36" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	94.95	
32 93 33 00-0378	EA	3 Gallon Juniperus sabina cvs - Savin Juniper	34.91	
32 93 33 00-0379	EA	5 Gallon Juniperus sabina cvs - Savin Juniper	41.89	
32 93 33 00-0380	EA	4 Gallon Juniperus virginiana cvs - Red Cedar Juniper	36.30	
32 93 33 00-0381	EA	36" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	69.81	
32 93 33 00-0382	EA	48" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	108.91	
32 93 33 00-0383	EA	60" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	136.83	
32 93 33 00-0384	EA	15" To 18" Kalmia latifolia - Mountain Laurel	57.30	
32 93 33 00-0385	EA	18" To 24" Kalmia latifolia - Mountain Laurel	76.35	
32 93 33 00-0386	EA	2' To 3' Kalmia latifolia - Mountain Laurel	111.30	
32 93 33 00-0387	EA	4' To 5' Kalmia latifolia - Mountain Laurel	203.54	
32 93 33 00-0388	EA	5' To 6' Kalmia latifolia - Mountain Laurel	311.84	
32 93 33 00-0389	EA	6' To 8' Kalmia latifolia - Mountain Laurel	477.29	
32 93 33 00-0390	EA	1 Gallon Kerria japonica - Kerria.....	12.75	
32 93 33 00-0391	EA	5 Gallon Kerria japonica - Kerria.....	39.90	
32 93 33 00-0392	EA	24" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	40.49	
32 93 33 00-0393	EA	30" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	46.08	
32 93 33 00-0394	EA	36" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	50.27	
32 93 33 00-0395	EA	42" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	58.64	
32 93 33 00-0396	EA	48" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	67.02	
32 93 33 00-0397	EA	60" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	83.78	
32 93 33 00-0398	EA	1 Gallon Lagerstroemia indica - Crape Myrtle	9.60	
32 93 33 00-0399	EA	5 Gallon Lagerstroemia indica - Crape Myrtle	34.20	
32 93 33 00-0400	EA	3' To 4' Lagerstroemia indica - Crape Myrtle	47.70	
32 93 33 00-0401	EA	4' To 5' Lagerstroemia indica - Crape Myrtle	70.05	
32 93 33 00-0402	EA	5' To 6' Lagerstroemia indica - Crape Myrtle	111.30	
32 93 33 00-0403	EA	7' To 8' Lagerstroemia indica - Crape Myrtle	144.51	
32 93 33 00-0404	EA	9' To 10' Lagerstroemia indica - Crape Myrtle	192.68	
32 93 33 00-0405	EA	11' To 12' Lagerstroemia indica - Crape Myrtle	401.42	
32 93 33 00-0406	EA	1 Gallon Leucothoe axillaris - Coast Leucothoe	14.40	
32 93 33 00-0407	EA	2 Gallon Leucothoe axillaris - Coast Leucothoe	31.50	
32 93 33 00-0408	EA	3 Gallon Leucothoe axillaris - Coast Leucothoe	37.95	
32 93 33 00-0409	EA	1 Gallon Ligustrum lucidum - Glossy Privet	8.85	
32 93 33 00-0410	EA	5 Gallon Ligustrum lucidum - Glossy Privet	27.15	
32 93 33 00-0411	EA	15 Gallon Ligustrum lucidum - Glossy Privet	127.20	
32 93 33 00-0412	EA	1 Gallon Ligustrum sinense - Variegated Chinese Privet.....	8.85	
32 93 33 00-0413	EA	2 Gallon Ligustrum sinense - Variegated Chinese Privet.....	19.05	
32 93 33 00-0414	EA	3 Gallon Ligustrum sinense - Variegated Chinese Privet.....	24.75	
32 93 33 00-0415	EA	36" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	41.89	
32 93 33 00-0416	EA	48" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	61.44	
32 93 33 00-0417	EA	60" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	78.19	
32 93 33 00-0418	EA	72" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	89.36	
32 93 33 00-0419	EA	5 Gallon Linder benzoin - Spicebush	46.08	
32 93 33 00-0420	EA	36" Balled and Burlapped, Linder benzoin - Spicebush	39.10	
32 93 33 00-0421	EA	48" Balled and Burlapped, Linder benzoin - Spicebush	47.47	
32 93 33 00-0422	EA	2' To 3' Lonicera fragrantissima - Winter Honeysuckle	76.35	
32 93 33 00-0423	EA	3' To 4' Lonicera fragrantissima - Winter Honeysuckle	92.25	
32 93 33 00-0424	EA	30" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	41.89	
32 93 33 00-0425	EA	36" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	50.27	
32 93 33 00-0426	EA	42" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	55.85	
32 93 33 00-0427	EA	48" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	61.44	
32 93 33 00-0428	EA	1 Gallon Myrica cerifera - Wax Myrtle.....	8.03	
32 93 33 00-0429	EA	4 Gallon Myrica cerifera - Wax Myrtle.....	25.69	
32 93 33 00-0430	EA	7 Gallon Myrica cerifera - Wax Myrtle.....	56.20	
32 93 33 00-0431	EA	10 Gallon Myrica cerifera - Wax Myrtle.....	83.50	
32 93 33 00-0432	EA	15 Gallon Myrica cerifera - Wax Myrtle.....	128.46	
32 93 33 00-0433	EA	45 Gallon Myrica cerifera - Wax Myrtle.....	385.37	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0434	EA	1' - 2' Myrica cerifera - Wax Myrtle.....	11.24
32 93 33 00-0435	EA	3' - 4' Myrica cerifera - Wax Myrtle.....	38.54
32 93 33 00-0436	EA	5' - 6' Myrica cerifera - Wax Myrtle.....	70.65
32 93 33 00-0437	EA	7' - 8' Myrica cerifera - Wax Myrtle.....	96.34
32 93 33 00-0438	EA	9' - 10' Myrica cerifera - Wax Myrtle.....	128.46
32 93 33 00-0439	EA	11' - 12' Myrica cerifera - Wax Myrtle.....	195.90
32 93 33 00-0440	EA	3 Gallon Myrica pensylvanica - Northern Bayberry.....	41.89
32 93 33 00-0441	EA	24" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	68.42
32 93 33 00-0442	EA	30" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	100.53
32 93 33 00-0443	EA	36" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	120.08
32 93 33 00-0444	EA	48" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	125.66
32 93 33 00-0445	EA	1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	9.86
32 93 33 00-0446	EA	5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	24.38
32 93 33 00-0447	EA	15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	96.78
32 93 33 00-0448	EA	1 Gallon Nandina domestica - Heavenly Bamboo.....	14.40
32 93 33 00-0449	EA	2 Gallon Nandina domestica - Heavenly Bamboo.....	31.50
32 93 33 00-0450	EA	5 Gallon Nandina domestica - Heavenly Bamboo.....	47.70
32 93 33 00-0451	EA	15 Gallon Nerium oleander - Oleander.....	105.90
32 93 33 00-0452	EA	24" Box Nerium oleander - Oleander.....	380.56
32 93 33 00-0453	EA	1 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	8.85
32 93 33 00-0454	EA	3 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	24.00
32 93 33 00-0455	EA	1 Gallon Philadelphus - Evergreen Mockorange.....	12.30
32 93 33 00-0456	EA	5 Gallon Philadelphus - Evergreen Mockorange.....	39.90
32 93 33 00-0457	EA	36" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	41.89
32 93 33 00-0458	EA	42" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	48.87
32 93 33 00-0459	EA	48" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	55.85
32 93 33 00-0460	EA	1 Gallon Photinia fraseri - Red-Tipped Photinia.....	9.86
32 93 33 00-0461	EA	5 Gallon Photinia fraseri - Red-Tipped Photinia.....	24.38
32 93 33 00-0462	EA	15 Gallon Photinia fraseri - Red-Tipped Photinia.....	96.78
32 93 33 00-0463	EA	1 Gallon Phormium tenax - New Zealand Flax.....	10.39
32 93 33 00-0464	EA	5 Gallon Phormium tenax - New Zealand Flax.....	24.91
32 93 33 00-0465	EA	15 Gallon Phormium tenax - New Zealand Flax.....	105.90
32 93 33 00-0466	EA	24" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	41.89
32 93 33 00-0467	EA	30" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	48.87
32 93 33 00-0468	EA	36" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	55.85
32 93 33 00-0469	EA	42" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	69.81
32 93 33 00-0470	EA	48" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	83.78
32 93 33 00-0471	EA	12" To 15" Spread Pieris - Mountain Andromeda.....	38.55
32 93 33 00-0472	EA	15" To 18" Spread Pieris - Mountain Andromeda.....	82.65
32 93 33 00-0473	EA	12" To 15" Pieris japonica - Japanese Andromeda.....	50.10
32 93 33 00-0474	EA	15" To 18" Pieris japonica - Japanese Andromeda.....	57.30
32 93 33 00-0475	EA	18" To 24" Pieris japonica - Japanese Andromeda.....	71.70
32 93 33 00-0476	EA	2' To 2-1/2' Pieris japonica - Japanese Andromeda.....	101.85
32 93 33 00-0477	EA	2-1/2' To 3' Pieris japonica - Japanese Andromeda.....	120.90
32 93 33 00-0478	EA	24" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	43.50
32 93 33 00-0479	EA	30" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	55.67
32 93 33 00-0480	EA	36" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	66.98
32 93 33 00-0481	EA	48" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	86.12
32 93 33 00-0482	EA	60" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	103.52
32 93 33 00-0483	EA	72" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	151.36
32 93 33 00-0484	EA	30" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	93.95
32 93 33 00-0485	EA	36" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	113.09
32 93 33 00-0486	EA	48" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	150.50
32 93 33 00-0487	EA	1 Gallon Pittosporum - Pittosporum.....	5.30
32 93 33 00-0488	EA	3 Gallon Pittosporum - Pittosporum.....	13.65
32 93 33 00-0489	EA	1 Gallon Pittosporum - Varigated Pittosporum.....	5.30
32 93 33 00-0490	EA	3 Gallon Pittosporum - Varigated Pittosporum.....	13.65
32 93 33 00-0491	EA	5 Gallon Pittosporum - Varigated Pittosporum.....	23.92
32 93 33 00-0492	EA	1 Gallon Pittosporum eugenioides - Lemonwood.....	11.32
32 93 33 00-0493	EA	5 Gallon Pittosporum eugenioides - Lemonwood.....	26.82
32 93 33 00-0494	EA	1 Gallon Pittosporum tobira - Japanese Pittosporum.....	9.86
32 93 33 00-0495	EA	5 Gallon Pittosporum tobira - Japanese Pittosporum.....	24.38
32 93 33 00-0496	EA	15 Gallon Pittosporum tobira - Japanese Pittosporum.....	96.78
32 93 33 00-0497	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	23.74
32 93 33 00-0498	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	33.51
32 93 33 00-0499	EA	18" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	25.13
32 93 33 00-0500	EA	24" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	27.93
32 93 33 00-0501	EA	30" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	40.49
32 93 33 00-0502	EA	36" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	46.77
32 93 33 00-0503	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	5.98
32 93 33 00-0504	EA	5 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	14.95
32 93 33 00-0505	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	89.15
32 93 33 00-0506	EA	15" To 18" Prunus laurocerasus - Cherry Laurel.....	22.80
32 93 33 00-0507	EA	18" To 24" Prunus laurocerasus - Cherry Laurel.....	28.22
32 93 33 00-0508	EA	24" To 30" Prunus laurocerasus - Cherry Laurel.....	36.73
32 93 33 00-0509	EA	15" To 18" Prunus triloba - Double White Flowering Almond.....	20.37
32 93 33 00-0510	EA	18" To 24" Prunus triloba - Double White Flowering Almond.....	26.07
32 93 33 00-0511	EA	3' To 4' Prunus triloba - Double White Flowering Almond.....	41.59
32 93 33 00-0512	EA	4' To 6' Prunus triloba - Double White Flowering Almond.....	83.27
32 93 33 00-0513	EA	5 Gallon Prunus triloba - Pink Flowering Almond.....	25.05
32 93 33 00-0514	EA	18" To 24" Prunus triloba - Pink Flowering Almond.....	28.13

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0515	EA	2' To 3' Prunus triloba - Pink Flowering Almond	32.71		
32 93 33 00-0516	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry	22.24		
32 93 33 00-0517	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry	27.29		
32 93 33 00-0518	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry	32.71		
32 93 33 00-0519	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry	37.47		
32 93 33 00-0520	EA	1 Gallon Punica granatum - Dwarf Pomegranate	9.45		
32 93 33 00-0521	EA	3 Gallon Punica granatum - Dwarf Pomegranate	27.90		
32 93 33 00-0522	EA	7 Gallon Punica granatum - Dwarf Pomegranate	57.30		
32 93 33 00-0523	EA	1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	12.00		
32 93 33 00-0524	EA	5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha	39.90		
32 93 33 00-0525	EA	5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha	82.65		
32 93 33 00-0526	EA	1 Gallon Ralphialepis indica - Indian Hawthorne	9.60		
32 93 33 00-0527	EA	2 Gallon Ralphialepis indica - Indian Hawthorne	18.30		
32 93 33 00-0528	EA	5 Gallon Ralphialepis indica - Indian Hawthorne	32.55		
32 93 33 00-0529	EA	1 Gallon Rhamnus californica - Coffeeberry	14.59		
32 93 33 00-0530	EA	5 Gallon Rhamnus californica - Coffeeberry	41.73		
32 93 33 00-0531	EA	15 Gallon Rhamnus californica - Coffeeberry	125.22		
32 93 33 00-0532	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge	73.20		
32 93 33 00-0533	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge	100.35		
32 93 33 00-0534	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge	130.50		
32 93 33 00-0535	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge	238.65		
32 93 33 00-0536	EA	1 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn	10.49		
32 93 33 00-0537	EA	5 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn	24.91		
32 93 33 00-0538	EA	15 Gallon Ralphialepis indica 'Ballerina' - Ballerina Indian Hawthorn	105.90		
32 93 33 00-0539	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids	15.60		
32 93 33 00-0540	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids	31.50		
32 93 33 00-0541	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids	41.10		
32 93 33 00-0542	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids	47.70		
32 93 33 00-0543	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids	55.80		
32 93 33 00-0544	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids	70.05		
32 93 33 00-0545	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids	101.85		
32 93 33 00-0546	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids	143.10		
32 93 33 00-0547	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	17.55		
32 93 33 00-0548	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	31.50		
32 93 33 00-0549	EA	15" To 18" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	54.15		
32 93 33 00-0550	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	70.05		
32 93 33 00-0551	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	101.85		
32 93 33 00-0552	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	149.55		
32 93 33 00-0553	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids	200.40		
32 93 33 00-0554	EA	5 Gallon Rhododendron - Boxleaf Azara	39.90		
32 93 33 00-0555	EA	15 Gallon Rhododendron - Boxleaf Azara	143.10		
32 93 33 00-0556	EA	15" To 18" Rhododendron - Carolina Rhododendron	45.15		
32 93 33 00-0557	EA	18" To 24" Rhododendron - Carolina Rhododendron	79.50		
32 93 33 00-0558	EA	24" To 30" Rhododendron - Carolina Rhododendron	117.75		
32 93 33 00-0559	EA	2' To 3' Rhododendron - Five-leafed Azalea	53.55		
32 93 33 00-0560	EA	3' To 4' Rhododendron - Five-leafed Azalea	70.05		
32 93 33 00-0561	EA	4' To 5' Rhododendron - Five-leafed Azalea	92.25		
32 93 33 00-0562	EA	15" To 18" Rhododendron - Ghent Azalea	53.55		
32 93 33 00-0563	EA	18" To 24" Rhododendron - Ghent Azalea	66.75		
32 93 33 00-0564	EA	2' To 3' Rhododendron - Ghent Azalea	108.15		
32 93 33 00-0565	EA	3' To 4' Rhododendron - Ghent Azalea	149.55		
32 93 33 00-0566	EA	4' To 5' Rhododendron - Ghent Azalea	200.40		
32 93 33 00-0567	EA	5' To 6' Rhododendron - Ghent Azalea	267.29		
32 93 33 00-0568	EA	1 Gallon Rhododendron - Hybrid Rhododendron	17.55		
32 93 33 00-0569	EA	2 Gallon Rhododendron - Hybrid Rhododendron	37.95		
32 93 33 00-0570	EA	3 Gallon Rhododendron - Hybrid Rhododendron	53.85		
32 93 33 00-0571	EA	5 Gallon Rhododendron - Hybrid Rhododendron	60.15		
32 93 33 00-0572	EA	15" To 18" Rhododendron - Hybrid Rhododendron	50.85		
32 93 33 00-0573	EA	18" To 24" Rhododendron - Hybrid Rhododendron	70.05		
32 93 33 00-0574	EA	24" To 30" Rhododendron - Hybrid Rhododendron	95.40		
32 93 33 00-0575	EA	30" To 36" Rhododendron - Hybrid Rhododendron	111.30		
32 93 33 00-0576	EA	36" To 42" Rhododendron - Hybrid Rhododendron	159.15		
32 93 33 00-0577	EA	42" To 48" Rhododendron - Hybrid Rhododendron	197.25		
32 93 33 00-0578	EA	15" To 18" Rhododendron - Pjm Rhododendron	57.30		
32 93 33 00-0579	EA	18" To 24" Rhododendron - Pjm Rhododendron	70.05		
32 93 33 00-0580	EA	2' To 2-1/2' Rhododendron - Pjm Rhododendron	101.85		
32 93 33 00-0581	EA	2-1/2' To 3' Rhododendron - Pjm Rhododendron	130.50		
32 93 33 00-0582	EA	3' To 3-1/2' Rhododendron - Pjm Rhododendron	159.15		
32 93 33 00-0583	EA	12" To 15" Rhododendron - Torch Azalea	44.55		
32 93 33 00-0584	EA	15" To 18" Rhododendron - Torch Azalea	53.55		
32 93 33 00-0585	EA	18" To 24" Rhododendron - Torch Azalea	66.75		
32 93 33 00-0586	EA	2' To 3' Rhododendron - Torch Azalea	111.30		
32 93 33 00-0587	EA	3 Gallon Rhododendron cvs - Lepidote Rhododendron	50.27		
32 93 33 00-0588	EA	5 Gallon Rhododendron cvs - Lepidote Rhododendron	61.44		
32 93 33 00-0589	EA	18" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	75.40		
32 93 33 00-0590	EA	24" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	94.95		
32 93 33 00-0591	EA	30" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	111.70		
32 93 33 00-0592	EA	36" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	134.04		
32 93 33 00-0593	EA	1 Gallon Rhus glabra - Dwarf Smooth Sumac	14.40		
32 93 33 00-0594	EA	5 Gallon Rhus glabra - Dwarf Smooth Sumac	39.90		
32 93 33 00-0595	EA	2 Gallon Rhus aromatica & cvs - Fragrant Sumac	33.51		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COST
DEMOLITION
UNIT COST

32 93 33 00-0596	EA	5 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	46.08	
32 93 33 00-0597	EA	18" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	53.06	
32 93 33 00-0598	EA	24" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	69.81	
32 93 33 00-0599	EA	36" Balled and Burlapped, Rhus glabra - Smooth Sumac.....	41.89	
32 93 33 00-0600	EA	48" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	69.81	
32 93 33 00-0601	EA	72" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	111.70	
32 93 33 00-0602	EA	15" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	37.70	
32 93 33 00-0603	EA	18" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	43.28	
32 93 33 00-0604	EA	24" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	62.83	
32 93 33 00-0605	EA	30" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	83.78	
32 93 33 00-0606	EA	1 Gallon Rosa hybrids & cvs - Shrub Rose.....	23.04	
32 93 33 00-0607	EA	2 Gallon Rosa hybrids & cvs - Shrub Rose.....	27.93	
32 93 33 00-0608	EA	3 Gallon Rosa hybrids & cvs - Shrub Rose.....	34.91	
32 93 33 00-0609	EA	2 Gallon Rosa rugosa & cvs - Rugosa Rose.....	25.13	
32 93 33 00-0610	EA	3 Gallon Rosa rugosa & cvs - Rugosa Rose.....	32.11	
32 93 33 00-0611	EA	5 Gallon Sambucus canadensis - American Elder.....	46.08	
32 93 33 00-0612	EA	1 Gallon Santolina chamaecyparissus - Lavender Cotton.....	9.86	
32 93 33 00-0613	EA	5 Gallon Santolina chamaecyparissus - Lavender Cotton.....	24.38	
32 93 33 00-0614	EA	1 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	9.86	
32 93 33 00-0615	EA	5 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	24.38	
32 93 33 00-0616	EA	2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	20.70	
32 93 33 00-0617	EA	3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	30.30	
32 93 33 00-0618	EA	1 Gallon Sarcococca humilis - Fragrant Sarcococca.....	11.25	
32 93 33 00-0619	EA	5 Gallon Sarcococca humilis - Fragrant Sarcococca.....	29.40	
32 93 33 00-0620	EA	5 Gallon Senna artemisioides - Feathery Cassia.....	32.43	
32 93 33 00-0621	EA	15 Gallon Senna artemisioides - Feathery Cassia.....	129.04	
32 93 33 00-0622	EA	24" Box Senna artemisioides - Feathery Cassia.....	405.36	
32 93 33 00-0623	EA	1 Gallon Skimmia japonica - Japanese Skimmia.....	14.40	
32 93 33 00-0624	EA	2 Gallon Skimmia japonica - Japanese Skimmia.....	28.65	
32 93 33 00-0625	EA	5 Gallon Skimmia japonica - Japanese Skimmia.....	46.20	
32 93 33 00-0626	EA	1 Gallon Sollya fusiformis - Bluebell Creeper.....	9.86	
32 93 33 00-0627	EA	5 Gallon Sollya fusiformis - Bluebell Creeper.....	24.38	
32 93 33 00-0628	EA	3' To 4' Spiraea - Garland Spiraea.....	66.75	
32 93 33 00-0629	EA	4' To 5' Spiraea - Garland Spiraea.....	101.85	
32 93 33 00-0630	EA	5 Gallon Spiraea - Snowmound Spiraea.....	39.90	
32 93 33 00-0631	EA	18" To 24" Spiraea - Snowmound Spiraea.....	32.70	
32 93 33 00-0632	EA	2' To 3' Spiraea - Snowmound Spiraea.....	46.20	
32 93 33 00-0633	EA	3' To 4' Spiraea - Snowmound Spiraea.....	53.55	
32 93 33 00-0634	EA	4' To 5' Spiraea - Snowmound Spiraea.....	92.25	
32 93 33 00-0635	EA	1 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	14.40	
32 93 33 00-0636	EA	2 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	28.35	
32 93 33 00-0637	EA	3 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	32.81	
32 93 33 00-0638	EA	5 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	35.60	
32 93 33 00-0639	EA	18" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	36.30	
32 93 33 00-0640	EA	24" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	41.89	
32 93 33 00-0641	EA	30" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	47.47	
32 93 33 00-0642	EA	36" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	55.15	
32 93 33 00-0643	EA	2 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	22.34	
32 93 33 00-0644	EA	5 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	33.51	
32 93 33 00-0645	EA	18" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	30.72	
32 93 33 00-0646	EA	24" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	36.30	
32 93 33 00-0647	EA	30" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	41.89	
32 93 33 00-0648	EA	36" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	47.47	
32 93 33 00-0649	EA	48" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	61.44	
32 93 33 00-0650	EA	1 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea.....	14.40	
32 93 33 00-0651	EA	2 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea.....	25.83	
32 93 33 00-0652	EA	4 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea.....	33.51	
32 93 33 00-0653	EA	18" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea.....	29.32	
32 93 33 00-0654	EA	24" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea.....	35.60	
32 93 33 00-0655	EA	30" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea.....	41.89	
32 93 33 00-0656	EA	36" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea.....	47.47	
32 93 33 00-0657	EA	5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	33.51	
32 93 33 00-0658	EA	18" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	33.51	
32 93 33 00-0659	EA	24" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	39.10	
32 93 33 00-0660	EA	30" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	53.06	
32 93 33 00-0661	EA	36" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	61.44	
32 93 33 00-0662	EA	42" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	72.61	
32 93 33 00-0663	EA	5 Gallon Staphylea trifolia - Bladdernut.....	47.14	
32 93 33 00-0664	EA	2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra.....	33.51	
32 93 33 00-0665	EA	5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra.....	36.30	
32 93 33 00-0666	EA	24" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra.....	41.89	
32 93 33 00-0667	EA	30" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra.....	50.27	
32 93 33 00-0668	EA	2 Gallon Symphoricarpos albus - Common Snowberry.....	34.91	
32 93 33 00-0669	EA	5 Gallon Symphoricarpos albus - Common Snowberry.....	37.00	
32 93 33 00-0670	EA	24" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	61.44	
32 93 33 00-0671	EA	30" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	76.79	
32 93 33 00-0672	EA	36" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	89.36	
32 93 33 00-0673	EA	42" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	103.32	
32 93 33 00-0674	EA	18" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	61.44	
32 93 33 00-0675	EA	24" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	67.02	
32 93 33 00-0676	EA	30" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	76.79	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 93 33 00-0677	EA 36" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	89.36			
32 93 33 00-0678	EA 42" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	103.32			
32 93 33 00-0679	EA 60" Balled and Burlapped, Syringa villosa & cvs - Late Lilac.....	48.87			
32 93 33 00-0680	EA 72" Balled and Burlapped, Syringa villosa & cvs - Late Lilac.....	53.06			
32 93 33 00-0681	EA 36" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	41.89			
32 93 33 00-0682	EA 42" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	47.47			
32 93 33 00-0683	EA 48" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	53.06			
32 93 33 00-0684	EA 60" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	61.44			
32 93 33 00-0685	EA 72" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	75.40			
32 93 33 00-0686	EA 5 Gallon Syringa x chinensis & cvs - Chinese Lilac.....	34.91			
32 93 33 00-0687	EA 36" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	40.49			
32 93 33 00-0688	EA 48" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	53.06			
32 93 33 00-0689	EA 48" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	222.01			
32 93 33 00-0690	EA 54" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	248.53			
32 93 33 00-0691	EA 60" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	273.67			
32 93 33 00-0692	EA 72" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	329.52			
32 93 33 00-0693	EA 18" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	58.64			
32 93 33 00-0694	EA 24" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	76.79			
32 93 33 00-0695	EA 30" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	89.36			
32 93 33 00-0696	EA 36" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	97.74			
32 93 33 00-0697	EA 15" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	58.64			
32 93 33 00-0698	EA 18" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	76.79			
32 93 33 00-0699	EA 24" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	90.76			
32 93 33 00-0700	EA 30" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	107.51			
32 93 33 00-0701	EA 36" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	161.97			
32 93 33 00-0702	EA 36" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	89.36			
32 93 33 00-0703	EA 48" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	120.08			
32 93 33 00-0704	EA 60" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	181.51			
32 93 33 00-0705	EA 72" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	265.29			
32 93 33 00-0706	EA 84" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	304.38			
32 93 33 00-0707	EA 96" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	353.25			
32 93 33 00-0708	EA 15" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	39.10			
32 93 33 00-0709	EA 18" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	54.45			
32 93 33 00-0710	EA 24" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	76.79			
32 93 33 00-0711	EA 3' To 4' Viburnum dilatatum - Linden Viburnum.....	66.75			
32 93 33 00-0712	EA 4' To 5' Viburnum dilatatum - Linden Viburnum.....	101.85			
32 93 33 00-0713	EA 5' To 6' Viburnum dilatatum - Linden Viburnum.....	133.65			
32 93 33 00-0714	EA 1 Gallon Viburnum japonicum - Japanese Viburnum.....	8.10			
32 93 33 00-0715	EA 3 Gallon Viburnum japonicum - Japanese Viburnum.....	22.20			
32 93 33 00-0716	EA 5 Gallon Viburnum plicatum - Japanese Snowball.....	39.90			
32 93 33 00-0717	EA 5' To 6' Viburnum plicatum - Japanese Snowball.....	149.55			
32 93 33 00-0718	EA 2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	70.05			
32 93 33 00-0719	EA 3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	82.65			
32 93 33 00-0720	EA 4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	116.25			
32 93 33 00-0721	EA 30" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum.....	76.79			
32 93 33 00-0722	EA 36" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum.....	92.15			
32 93 33 00-0723	EA 24" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	69.81			
32 93 33 00-0724	EA 30" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	83.78			
32 93 33 00-0725	EA 36" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	97.74			
32 93 33 00-0726	EA 42" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	111.70			
32 93 33 00-0727	EA 1 Gallon Viburnum davidii - David Viburnum.....	9.86			
32 93 33 00-0728	EA 5 Gallon Viburnum davidii - David Viburnum.....	24.38			
32 93 33 00-0729	EA 36" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	39.10			
32 93 33 00-0730	EA 42" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	41.89			
32 93 33 00-0731	EA 48" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	48.87			
32 93 33 00-0732	EA 60" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	55.85			
32 93 33 00-0733	EA 72" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	61.44			
32 93 33 00-0734	EA 30" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	37.70			
32 93 33 00-0735	EA 36" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	41.89			
32 93 33 00-0736	EA 42" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	53.06			
32 93 33 00-0737	EA 48" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	61.44			
32 93 33 00-0738	EA 60" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	83.78			
32 93 33 00-0739	EA 72" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	100.53			
32 93 33 00-0740	EA 36" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	41.89			
32 93 33 00-0741	EA 48" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	55.85			
32 93 33 00-0742	EA 5' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	69.81			
32 93 33 00-0743	EA 6' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	97.74			
32 93 33 00-0744	EA 7' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	139.63			
32 93 33 00-0745	EA 8' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	195.48			
32 93 33 00-0746	EA 9' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	251.33			
32 93 33 00-0747	EA 30" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	50.27			
32 93 33 00-0748	EA 36" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	55.85			
32 93 33 00-0749	EA 36" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	100.53			
32 93 33 00-0750	EA 48" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	153.59			
32 93 33 00-0751	EA 60" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	195.48			
32 93 33 00-0752	EA 72" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	237.36			
32 93 33 00-0753	EA 84" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	293.21			
32 93 33 00-0754	EA 96" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	349.07			
32 93 33 00-0755	EA 108" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	418.88			
32 93 33 00-0756	EA 120" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	488.69			
32 93 33 00-0757	EA 30" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	42.59			

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0758	EA	36" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	46.77
32 93 33 00-0759	EA	48" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	53.06
32 93 33 00-0760	EA	60" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	61.44
32 93 33 00-0761	EA	72" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	70.51
32 93 33 00-0762	EA	18" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	40.49
32 93 33 00-0763	EA	24" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	48.87
32 93 33 00-0764	EA	30" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	58.64
32 93 33 00-0765	EA	36" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	67.02
32 93 33 00-0766	EA	42" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	80.98
32 93 33 00-0767	EA	48" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	89.36
32 93 33 00-0768	EA	30" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	69.81
32 93 33 00-0769	EA	36" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	83.78
32 93 33 00-0770	EA	42" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	97.74
32 93 33 00-0771	EA	48" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	111.70
32 93 33 00-0772	EA	60" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	125.66
32 93 33 00-0773	EA	30" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	89.36
32 93 33 00-0774	EA	36" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	100.53
32 93 33 00-0775	EA	42" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	114.49
32 93 33 00-0776	EA	48" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	131.25
32 93 33 00-0777	EA	2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball	82.65
32 93 33 00-0778	EA	3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball	101.85
32 93 33 00-0779	EA	4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball	149.55
32 93 33 00-0780	EA	5 Gallon Weigela florida & cvs - Old Fashioned Weigela.....	46.08
32 93 33 00-0781	EA	24" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	41.89
32 93 33 00-0782	EA	30" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	47.47
32 93 33 00-0783	EA	36" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	53.06
32 93 33 00-0784	EA	42" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	61.44
32 93 33 00-0785	EA	48" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	69.81
32 93 33 00-0786	EA	1 Gallon Xylosma congestum - Shiny Xylosma	9.60
32 93 33 00-0787	EA	5 Gallon Xylosma congestum - Shiny Xylosma	27.15
32 93 33 00-0788	EA	15 Gallon Xylosma congestum - Shiny Xylosma	119.40
32 93 33 00-0789	EA	1 Gallon Yucca aloifolia - Spanish Bayonet	8.10
32 93 33 00-0790	EA	3 Gallon Yucca aloifolia - Spanish Bayonet	21.45
32 93 33 00-0791	EA	1 Gallon Yucca filamentosa - Adams Needle.....	11.25
32 93 33 00-0792	EA	3 Gallon Yucca filamentosa - Adams Needle.....	21.90
32 93 33 00-0793	EA	5 Gallon Yucca filamentosa - Adams Needle.....	34.65
32 93 33 00-0794	EA	5 Gallon Border Forsythia - Goldenbells.....	38.55
32 93 33 00-0795	EA	2' To 3' Border Forsythia - Goldenbells.....	31.80
32 93 33 00-0796	EA	3' To 4' Border Forsythia - Goldenbells.....	40.20
32 93 33 00-0797	EA	4' To 5' Border Forsythia - Goldenbells.....	50.10
32 93 33 00-0798	EA	5' To 6' Border Forsythia - Goldenbells.....	60.15
32 93 33 00-0799	EA	6' To 8' Border Forsythia - Goldenbells.....	82.65
32 93 33 00-0800	EA	3' Juniperus chinensis - Columnar Chinese Juniper	81.89
32 93 33 00-0801	EA	4' Juniperus chinensis - Columnar Chinese Juniper	112.40
32 93 33 00-0802	EA	5' Juniperus chinensis - Columnar Chinese Juniper	176.63
32 93 33 00-0803	EA	6' Juniperus chinensis - Columnar Chinese Juniper	205.53
32 93 33 00-0804	EA	7' Juniperus chinensis - Columnar Chinese Juniper	269.76
32 93 33 00-0805	EA	2 Gallon Chrysobalanus icaco - Cocoplum Red Tip	16.06
32 93 33 00-0806	EA	3 Gallon Chrysobalanus icaco - Cocoplum Red Tip	22.48
32 93 33 00-0807	EA	5 Gallon Chrysobalanus icaco - Cocoplum Red Tip	54.43
32 93 33 00-0808	EA	2 Gallon Chrysobalanus icaco - Cocoplum Green Tip	16.06
32 93 33 00-0809	EA	3 Gallon Chrysobalanus icaco - Cocoplum Green Tip	22.48

32 93 43 Trees (32 93)

Note: (cvs = cultivar or cultivated varieties) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

32 93 43 00-0001 Deciduous Ornamental Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA	6' Clump Form Acer ginnala & cvs - Amur Maple	306.48
32 93 43 00-0003	EA	7' Clump Form Acer ginnala & cvs - Amur Maple	374.58
32 93 43 00-0004	EA	8' Clump Form Acer ginnala & cvs - Amur Maple	425.66
32 93 43 00-0005	EA	10' Clump Form Acer ginnala & cvs - Amur Maple	493.77
32 93 43 00-0006	EA	12' Clump Form Acer ginnala & cvs - Amur Maple	561.88
32 93 43 00-0007	EA	14' Clump Form Acer ginnala & cvs - Amur Maple	664.03
32 93 43 00-0008	EA	1-1/2" To 2" Caliper Acer griseum - Paperbark Maple	304.96
32 93 43 00-0009	EA	2" To 2-1/2" Caliper Acer griseum - Paperbark Maple	1,089.70
32 93 43 00-0010	EA	2-1/2" To 3" Caliper Acer griseum - Paperbark Maple	1,362.12
32 93 43 00-0011	EA	5' Clump Form Acer griseum - Paperbark Maple	272.42
32 93 43 00-0012	EA	1-1/2" Caliper Aesculus californica - California Buckeye	681.06
32 93 43 00-0013	EA	2" Caliper Aesculus californica - California Buckeye	885.38
32 93 43 00-0014	EA	2-1/2" Caliper Aesculus californica - California Buckeye	1,021.59
32 93 43 00-0015	EA	3" Caliper Aesculus californica - California Buckeye	1,157.80
32 93 43 00-0016	EA	3-1/2" Caliper Aesculus californica - California Buckeye	1,362.12
32 93 43 00-0017	EA	36" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	111.70
32 93 43 00-0018	EA	48" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	139.63
32 93 43 00-0019	EA	60" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	173.14
32 93 43 00-0020	EA	60" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	139.63
32 93 43 00-0021	EA	72" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	167.55
32 93 43 00-0022	EA	7' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	195.48



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 93 43 00-0023	EA 8' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	223.40			
32 93 43 00-0024	EA 5' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	251.33			
32 93 43 00-0025	EA 6' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	279.25			
32 93 43 00-0026	EA 7' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	321.14			
32 93 43 00-0027	EA 8' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	363.03			
32 93 43 00-0028	EA 9' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	418.88			
32 93 43 00-0029	EA 7' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	321.14			
32 93 43 00-0030	EA 8' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	376.99			
32 93 43 00-0031	EA 9' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	432.84			
32 93 43 00-0032	EA 10' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	474.73			
32 93 43 00-0033	EA 30" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	111.70			
32 93 43 00-0034	EA 48" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	237.36			
32 93 43 00-0035	EA 60" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	307.18			
32 93 43 00-0036	EA 2' To 4' Amelemchier - Juneberry.....	34.00			
32 93 43 00-0037	EA 4' To 5' Amelemchier - Juneberry.....	35.67			
32 93 43 00-0038	EA 5' To 6' Amelemchier - Juneberry.....	42.47			
32 93 43 00-0039	EA 6' To 8' Amelemchier - Juneberry.....	50.67			
32 93 43 00-0040	EA 6' Cercis occidentalis - Western Redbud.....	190.71			
32 93 43 00-0041	EA 8' Cercis occidentalis - Western Redbud.....	262.38			
32 93 43 00-0042	EA 2-1/2" Caliper Cercis occidentalis - Western Redbud.....	540.42			
32 93 43 00-0043	EA 3" Caliper Cercis occidentalis - Western Redbud.....	657.90			
32 93 43 00-0044	EA 2' To 3' Magnolia Virginiana - Sweetbay Magnolia.....	64.53			
32 93 43 00-0045	EA 3' To 4' Magnolia Virginiana - Sweetbay Magnolia.....	96.80			
32 93 43 00-0046	EA 4' To 5' Magnolia Virginiana - Sweetbay Magnolia.....	121.00			
32 93 43 00-0047	EA 5' To 6' Magnolia Virginiana - Sweetbay Magnolia.....	150.71			
32 93 43 00-0048	EA 4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	255.40			
32 93 43 00-0049	EA 5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	340.53			
32 93 43 00-0050	EA 6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	442.69			
32 93 43 00-0051	EA 7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	493.77			
32 93 43 00-0052	EA 8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	595.93			
32 93 43 00-0053	EA 9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	684.03			
32 93 43 00-0054	EA 4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	255.40			
32 93 43 00-0055	EA 5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	340.53			
32 93 43 00-0056	EA 6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	442.69			
32 93 43 00-0057	EA 7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	493.77			
32 93 43 00-0058	EA 8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	595.93			
32 93 43 00-0059	EA 9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	684.03			
32 93 43 00-0060	EA 1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	7.29			
32 93 43 00-0061	EA 5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	30.85			
32 93 43 00-0062	EA 20 Gallon Prunus subhirtella - Flowering Cherry.....	421.22			
32 93 43 00-0063	EA 1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry.....	435.41			
32 93 43 00-0064	EA 2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	544.20			
32 93 43 00-0065	EA 3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry.....	1,135.71			
32 93 43 00-0066	EA 3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	875.32			
32 93 43 00-0067	EA 4" To 5" Caliper Prunus subhirtella - Flowering Cherry.....	1,703.57			
32 93 43 00-0068	EA 5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	108.80			
32 93 43 00-0069	EA 15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	298.01			
32 93 43 00-0070	EA 20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	388.11			
32 93 43 00-0071	EA 5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	122.99			
32 93 43 00-0072	EA 6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	236.51			
32 93 43 00-0073	EA 1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	435.41			
32 93 43 00-0074	EA 2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	520.55			
32 93 43 00-0075	EA 1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry.....	340.81			
32 93 43 00-0076	EA 1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	283.81			
32 93 43 00-0077	EA 1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry.....	416.26			
32 93 43 00-0078	EA 2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	496.90			
32 93 43 00-0079	EA 2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry.....	638.81			
32 93 43 00-0080	EA 15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	328.86			
32 93 43 00-0081	EA 20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	411.08			
32 93 43 00-0082	EA 1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	427.52			
32 93 43 00-0083	EA 2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	509.74			
32 93 43 00-0084	EA 2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	690.62			
32 93 43 00-0085	EA 3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	904.38			
32 93 43 00-0086	EA 3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	1,151.03			
32 93 43 00-0087	EA 15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear.....	328.86			
32 93 43 00-0088	EA 20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear.....	411.08			
32 93 43 00-0089	EA 1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	279.54			
32 93 43 00-0090	EA 2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	427.52			
32 93 43 00-0091	EA 2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	509.29			
32 93 43 00-0092	EA 3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	690.62			
32 93 43 00-0093	EA 3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear.....	904.38			
32 93 43 00-0094	EA 1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear.....	599.04			
32 93 43 00-0095	EA 2" Caliper Pyrus calleryana & cvs - Callery Pear.....	748.80			
32 93 43 00-0096	EA 2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear.....	928.52			
32 93 43 00-0097	EA 3" Caliper Pyrus calleryana & cvs - Callery Pear.....	1,048.33			
32 93 43 00-0098	EA 3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear.....	1,168.13			
32 93 43 00-0099	EA 4" Caliper Pyrus calleryana & cvs - Callery Pear.....	1,497.61			
32 93 43 00-0100	EA 1 Gallon Ribes aureum - Golden Currant.....	6.37			
32 93 43 00-0101	EA 5 Gallon Ribes aureum - Golden Currant.....	18.23			
32 93 43 00-0102	EA 1 Gallon Ribes sanguineum - Red Flowering Currant.....	6.37			
32 93 43 00-0103	EA 5 Gallon Ribes sanguineum - Red Flowering Currant.....	18.23			

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0104	EA	1 Gallon Ribes viburnifolium - Evergreen Currant.....	6.37	
32 93 43 00-0105	EA	5 Gallon Ribes viburnifolium - Evergreen Currant.....	18.23	
32 93 43 00-0106	EA	8' Cassia leptophylla - Gold Medallion Tree	413.23	
32 93 43 00-0107	EA	10' Cassia leptophylla - Gold Medallion Tree	524.49	
32 93 43 00-0108	EA	12' Cassia leptophylla - Gold Medallion Tree	635.74	
32 93 43 00-0109	EA	6' Magnolia grandiflora 'St. Mary's'.....	476.80	
32 93 43 00-0110	EA	8' Magnolia grandiflora 'St. Mary's'.....	842.36	
32 93 43 00-0111	EA	10' Magnolia grandiflora 'St. Mary's'.....	1,058.51	
32 93 43 00-0112	EA	12' Magnolia grandiflora 'St. Mary's'.....	1,271.48	
32 93 43 00-0113	EA	14' Magnolia grandiflora 'St. Mary's'.....	1,478.10	
32 93 43 00-0114	EA	16' Magnolia grandiflora 'St. Mary's'.....	1,748.28	
32 93 43 00-0115	EA	24" Box Magnolia grandiflora 'St. Mary's'.....	524.49	
32 93 43 00-0116	EA	6' Prunus cerasifera - Purple Leaf Plum	247.94	
32 93 43 00-0117	EA	8' Prunus cerasifera - Purple Leaf Plum	286.08	
32 93 43 00-0118	EA	10' Prunus cerasifera - Purple Leaf Plum	368.73	
32 93 43 00-0119	EA	24" Box Prunus cerasifera - Purple Leaf Plum	392.57	
32 93 43 00-0120	EA	30" Box Prunus cerasifera - Purple Leaf Plum	794.68	
32 93 43 00-0121	EA	36" Box Prunus cerasifera - Purple Leaf Plum	1,219.03	
32 93 43 00-0122	EA	6' Pittosporum phylliraeoides - Willow Pittosporum	518.13	
32 93 43 00-0123	EA	8' Pittosporum phylliraeoides - Willow Pittosporum	740.64	
32 93 43 00-0124	EA	10' Pittosporum phylliraeoides - Willow Pittosporum	886.86	
32 93 43 00-0125	EA	12' Pittosporum phylliraeoides - Willow Pittosporum	1,144.33	
32 93 43 00-0126	EA	6' Stenocarpus sinuatus - Firewheel Tree	762.89	
32 93 43 00-0127	EA	8' Stenocarpus sinuatus - Firewheel Tree	1,017.18	
32 93 43 00-0128	EA	10" Stenocarpus sinuatus - Firewheel Tree	1,271.48	
32 93 43 00-0129	EA	12' Stenocarpus sinuatus - Firewheel Tree	1,525.78	
32 93 43 00-0130	EA	24" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	754.00	
32 93 43 00-0131	EA	36" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	2,182.62	
32 93 43 00-0132	EA	1-1/2" Caliper Arbutus menziesii - Madrona.....	552.82	
32 93 43 00-0133	EA	2" Caliper Arbutus menziesii - Madrona.....	718.66	
32 93 43 00-0134	EA	2-1/2" Caliper Arbutus menziesii - Madrona.....	829.23	
32 93 43 00-0135	EA	3" Caliper Arbutus menziesii - Madrona.....	939.79	
32 93 43 00-0136	EA	3-1/2" Caliper Arbutus menziesii - Madrona.....	1,105.63	
32 93 43 00-0137	EA	1-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	381.44	
32 93 43 00-0138	EA	2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	619.85	
32 93 43 00-0139	EA	2-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	762.89	
32 93 43 00-0140	EA	3" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	842.36	
32 93 43 00-0141	EA	24" Box Koelreuteria bipinnata - Chinese Flame Tree.....	371.91	
32 93 43 00-0142	EA	30" Box Koelreuteria bipinnata - Chinese Flame Tree.....	858.25	
32 93 43 00-0143	EA	36" Box Koelreuteria bipinnata - Chinese Flame Tree.....	1,343.00	
32 93 43 00-0144	EA	1-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree	346.48	
32 93 43 00-0145	EA	2" Cliber Koelreuteria paniculata - Golden Rain Tree	562.63	
32 93 43 00-0146	EA	2-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree	689.78	
32 93 43 00-0147	EA	3" Cliber Koelreuteria paniculata - Golden Rain Tree	778.78	
32 93 43 00-0148	EA	6' Magnolia grandiflora - Southern Magnolia	235.22	
32 93 43 00-0149	EA	7' Magnolia grandiflora - Southern Magnolia	356.01	
32 93 43 00-0150	EA	8' Magnolia grandiflora - Southern Magnolia	499.06	
32 93 43 00-0151	EA	9' Magnolia grandiflora - Southern Magnolia	664.35	
32 93 43 00-0152	EA	10' Magnolia grandiflora - Southern Magnolia	1,010.83	
32 93 43 00-0153	EA	24" Box Magnolia grandiflora - Southern Magnolia.....	413.23	
32 93 43 00-0154	EA	1-1/2" Caliper Tipuana tipu - Tipu Tree	492.70	
32 93 43 00-0155	EA	2" Caliper Tipuana tipu - Tipu Tree	642.10	
32 93 43 00-0156	EA	2-1/2" Caliper Tipuana tipu - Tipu Tree	813.75	
32 93 43 00-0157	EA	3" Caliper Tipuana tipu - Tipu Tree	937.72	
32 93 43 00-0158	EA	3-1/2" Caliper Tipuana tipu - Tipu Tree.....	1,379.56	
32 93 43 00-0159	EA	4" Caliper Tipuana tipu - Tipu Tree	1,843.65	
32 93 43 00-0160	EA	24" Box Tipuana tipu - Tipu Tree	371.91	
32 93 43 00-0161	EA	6' Albizia julibrissin - Silk Tree.....	762.89	
32 93 43 00-0162	EA	8' Albizia julibrissin - Silk Tree.....	1,017.18	
32 93 43 00-0163	EA	10' Albizia julibrissin - Silk Tree.....	1,271.48	
32 93 43 00-0164	EA	12' Albizia julibrissin - Silk Tree.....	1,525.78	
32 93 43 00-0165	EA	6' Brachychiton acerifolius - Flame Tree.....	762.89	
32 93 43 00-0166	EA	8' Brachychiton acerifolius - Flame Tree.....	1,017.18	
32 93 43 00-0167	EA	10' Brachychiton acerifolius - Flame Tree.....	1,271.48	
32 93 43 00-0168	EA	12' Brachychiton acerifolius - Flame Tree.....	1,525.78	
32 93 43 00-0169	EA	1-1/2" Caliper Chilopsis linearis - Desert Willow	616.67	
32 93 43 00-0170	EA	2" Caliper Chilopsis linearis - Desert Willow	740.64	
32 93 43 00-0171	EA	2-1/2" Caliper Chilopsis linearis - Desert Willow	788.32	
32 93 43 00-0172	EA	3" Caliper Chilopsis linearis - Desert Willow	874.14	
32 93 43 00-0173	EA	5 Gallon Chionanthus retusus - Chinese Fringe Tree.....	31.79	
32 93 43 00-0174	EA	15 Gallon Chionanthus retusus - Chinese Fringe Tree.....	127.15	
32 93 43 00-0175	EA	24" Box Chionanthus retusus - Chinese Fringe Tree.....	635.74	
32 93 43 00-0176	EA	5 Gallon Calodendrum capense - Cape Chestnut	47.68	
32 93 43 00-0177	EA	15 Gallon Calodendrum capense - Cape Chestnut	190.72	
32 93 43 00-0178	EA	24" Box Calodendrum capense - Cape Chestnut	715.21	
32 93 43 00-0179	EA	6' Chionanthus virginicus - White Fringe Tree	381.44	
32 93 43 00-0180	EA	8' Chionanthus virginicus - White Fringe Tree	548.25	
32 93 43 00-0181	EA	10' Chionanthus virginicus - White Fringe Tree	763.64	
32 93 43 00-0182	EA	15 Gallon Geijera parvifolia - Australian Willow	234.97	
32 93 43 00-0183	EA	24" Box Geijera parvifolia - Australian Willow.....	483.64	
32 93 43 00-0184	EA	30" Box Geijera parvifolia - Australian Willow.....	900.70	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0185	EA		36" Box Geijera parvifolia - Australian Willow	1,292.31	
32 93 43 00-0186	EA		1-1/2" Caliper Ginko Biloba - Maidenhair Tree	697.07	
32 93 43 00-0187	EA		2" Caliper Ginko Biloba - Maidenhair Tree	971.19	
32 93 43 00-0188	EA		2-1/2" Caliper Ginko Biloba - Maidenhair Tree	1,170.91	
32 93 43 00-0189	EA		3" Caliper Ginko Biloba - Maidenhair Tree.....	1,366.72	
32 93 43 00-0190	EA		3-1/2" Caliper Ginko Biloba - Maidenhair Tree	1,789.66	
32 93 43 00-0191	EA		4" Caliper Ginko Biloba - Maidenhair Tree	1,911.06	
32 93 43 00-0192	EA		4-1/2" Caliper Ginko Biloba - Maidenhair Tree	2,036.37	
32 93 43 00-0193	EA		24" Box Ginko Biloba - Maidenhair Tree.....	636.37	
32 93 43 00-0194	EA		15 Gallon Sapium sebiferum - Chinese Tallow Tree.....	234.97	
32 93 43 00-0195	EA		24" Box Sapium sebiferum - Chinese Tallow Tree	861.54	
32 93 43 00-0196	EA		4' To 5' Lagerstroemia indica - Crape Myrtle	250.63	
32 93 43 00-0197	EA		6' Lagerstroemia indica - Crape Myrtle	466.02	
32 93 43 00-0198	EA		8' Lagerstroemia indica - Crape Myrtle	481.68	
32 93 43 00-0199	EA		10' Lagerstroemia indica - Crape Myrtle	583.50	
32 93 43 00-0200	EA		24" Box Lagerstroemia indica - Crape Myrtle	458.18	
32 93 43 00-0201	EA		5 Gallon Celtis Sinensis - Chinese Hackberry	46.64	
32 93 43 00-0202	EA		15 Gallon Celtis Sinensis - Chinese Hackberry	122.97	
32 93 43 00-0203	EA		24" Box Celtis Sinensis - Chinese Hackberry	402.82	
32 93 43 00-0204	EA		36" Box Celtis Sinensis - Chinese Hackberry	1,176.66	
32 93 43 00-0205	EA		5 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	46.64	
32 93 43 00-0206	EA		15 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	122.97	
32 93 43 00-0207	EA		24" Box Crataegus phaenopyrum - Washington Hawthorn.....	402.82	
32 93 43 00-0208	EA		36" Box Crataegus phaenopyrum - Washington Hawthorn.....	1,176.66	
32 93 43 00-0209	EA		1 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	13.78	
32 93 43 00-0210	EA		5 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	38.16	
32 93 43 00-0211	EA		15 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	167.49	
32 93 43 00-0212	EA		24" Box Eucalyptus ficifolia - Red-Flowering Gum.....	402.82	
32 93 43 00-0213	EA		36" Box Eucalyptus ficifolia - Red-Flowering Gum.....	1,060.05	
32 93 43 00-0214	EA		15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash	103.88	
32 93 43 00-0215	EA		24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash	339.22	
32 93 43 00-0216	EA		36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash	901.04	
32 93 43 00-0217	EA		48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash	2,014.10	
32 93 43 00-0218	EA		5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	29.68	
32 93 43 00-0219	EA		15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	103.88	
32 93 43 00-0220	EA		24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	339.22	
32 93 43 00-0221	EA		36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	901.04	
32 93 43 00-0222	EA		48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	2,014.10	
32 93 43 00-0223	EA		5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	29.68	
32 93 43 00-0224	EA		15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	125.09	
32 93 43 00-0225	EA		24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	339.22	
32 93 43 00-0226	EA		36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	954.04	
32 93 43 00-0227	EA		48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	2,438.12	
32 93 43 00-0228	EA		5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	29.68	
32 93 43 00-0229	EA		15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	125.09	
32 93 43 00-0230	EA		24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	339.22	
32 93 43 00-0231	EA		36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	954.04	
32 93 43 00-0232	EA		48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	2,438.12	
32 93 43 00-0233	EA		5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	29.68	
32 93 43 00-0234	EA		15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	125.09	
32 93 43 00-0235	EA		24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	339.22	
32 93 43 00-0236	EA		36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	954.04	
32 93 43 00-0237	EA		48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	2,438.12	
32 93 43 00-0238	EA		1 Gallon Pittosporum undulatum - Victorian Box	25.79	
32 93 43 00-0239	EA		5 Gallon Pittosporum undulatum - Victorian Box	55.56	
32 93 43 00-0240	EA		15 Gallon Pittosporum undulatum - Victorian Box	313.50	
32 93 43 00-0241	EA		24" Box Pittosporum undulatum - Victorian Box	754.00	
32 93 43 00-0242	EA		36" Box Pittosporum undulatum - Victorian Box	2,182.62	
32 93 43 00-0243	EA		48" Box Pittosporum undulatum - Victorian Box	4,960.50	
32 93 43 00-0244	EA		15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	105.90	
32 93 43 00-0245	EA		24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	381.51	

32 93 43 00-0246

Deciduous Shade Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0247	EA		3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple	260.92	
32 93 43 00-0248	EA		4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple	319.84	
32 93 43 00-0249	EA		4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple	416.63	
32 93 43 00-0250	EA		5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple	540.08	
32 93 43 00-0251	EA		2' To 2-1/2' Acer palmatum - Japanese Maple.....	27.52	
32 93 43 00-0252	EA		4' To 5' Acer palmatum - Japanese Maple.....	57.79	
32 93 43 00-0253	EA		5' To 6' Acer palmatum - Japanese Maple.....	75.68	
32 93 43 00-0254	EA		6' To 7' Acer palmatum - Japanese Maple.....	137.60	
32 93 43 00-0255	EA		7' To 8' Acer palmatum - Japanese Maple.....	192.64	
32 93 43 00-0256	EA		8' To 10' Acer palmatum - Japanese Maple.....	247.68	
32 93 43 00-0257	EA		10' To 12' Acer palmatum - Japanese Maple.....	330.24	
32 93 43 00-0258	EA		2" Caliper Acer platanoides & cvs - Norway Maple.....	140.28	
32 93 43 00-0259	EA		2" Caliper Acer platanoides & cvs - Norway Maple.....	170.78	
32 93 43 00-0260	EA		3" Caliper Acer platanoides & cvs - Norway Maple.....	219.57	
32 93 43 00-0261	EA		3-1/2" Caliper Acer platanoides & cvs - Norway Maple	256.16	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0262	EA	4" Caliper Acer platanoides & cvs - Norway Maple.....	274.46	
32 93 43 00-0263	EA	4-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	298.86	
32 93 43 00-0264	EA	5" Caliper Acer platanoides & cvs - Norway Maple.....	335.45	
32 93 43 00-0265	EA	2" Caliper Acer rubrum & cvs - Red Maple.....	134.18	
32 93 43 00-0266	EA	2-1/2" Caliper Acer rubrum & cvs - Red Maple.....	170.78	
32 93 43 00-0267	EA	3" Caliper Acer rubrum & cvs - Red Maple.....	219.57	
32 93 43 00-0268	EA	3-1/2" Caliper Acer rubrum & cvs - Red Maple.....	268.36	
32 93 43 00-0269	EA	4" Caliper Acer rubrum & cvs - Red Maple.....	304.96	
32 93 43 00-0270	EA	4-1/2" Caliper Acer rubrum & cvs - Red Maple.....	353.75	
32 93 43 00-0271	EA	5" Caliper Acer rubrum & cvs - Red Maple.....	396.44	
32 93 43 00-0272	EA	8' Clump Form Acer rubrum & cvs - Red Maple.....	164.68	
32 93 43 00-0273	EA	10' Clump Form Acer rubrum & cvs - Red Maple.....	219.57	
32 93 43 00-0274	EA	12' Clump Form Acer rubrum & cvs - Red Maple.....	256.16	
32 93 43 00-0275	EA	14' Clump Form Acer rubrum & cvs - Red Maple.....	292.76	
32 93 43 00-0276	EA	16' Clump Form Acer rubrum & cvs - Red Maple.....	329.35	
32 93 43 00-0277	EA	18' Clump Form Acer rubrum & cvs - Red Maple.....	365.95	
32 93 43 00-0278	EA	2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	213.47	
32 93 43 00-0279	EA	2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	237.87	
32 93 43 00-0280	EA	3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	268.36	
32 93 43 00-0281	EA	3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	304.96	
32 93 43 00-0282	EA	4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	365.95	
32 93 43 00-0283	EA	2" Caliper Betula nigra - River Birch.....	152.48	
32 93 43 00-0284	EA	2-1/2" Caliper Betula nigra - River Birch.....	172.67	
32 93 43 00-0285	EA	3" Caliper Betula nigra - River Birch.....	195.17	
32 93 43 00-0286	EA	3-1/2" Caliper Betula nigra - River Birch.....	243.97	
32 93 43 00-0287	EA	4" Caliper Betula nigra - River Birch.....	274.46	
32 93 43 00-0288	EA	4-1/2" Caliper Betula nigra - River Birch.....	304.96	
32 93 43 00-0289	EA	5" Caliper Betula nigra - River Birch.....	335.45	
32 93 43 00-0290	EA	8' Clump Form Betula nigra - River Birch.....	140.28	
32 93 43 00-0291	EA	10' Clump Form Betula nigra - River Birch.....	158.58	
32 93 43 00-0292	EA	12' Clump Form Betula nigra - River Birch.....	182.97	
32 93 43 00-0293	EA	14' Clump Form Betula nigra - River Birch.....	213.47	
32 93 43 00-0294	EA	16' Clump Form Betula nigra - River Birch.....	243.97	
32 93 43 00-0295	EA	12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	182.97	
32 93 43 00-0296	EA	14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	219.57	
32 93 43 00-0297	EA	16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	256.16	
32 93 43 00-0298	EA	18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	304.96	
32 93 43 00-0299	EA	20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	317.15	
32 93 43 00-0300	EA	2" Caliper Carpinus betulus & cvs - European Hornbeam.....	243.97	
32 93 43 00-0301	EA	2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	274.46	
32 93 43 00-0302	EA	3" Caliper Carpinus betulus & cvs - European Hornbeam.....	317.15	
32 93 43 00-0303	EA	3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	384.25	
32 93 43 00-0304	EA	6' Clump Form Carpinus betulus & cvs - European Hornbeam.....	109.78	
32 93 43 00-0305	EA	7' Clump Form Carpinus betulus & cvs - European Hornbeam.....	152.48	
32 93 43 00-0306	EA	8' Clump Form Carpinus betulus & cvs - European Hornbeam.....	189.07	
32 93 43 00-0307	EA	2" Caliper Catalpa speciosa - Western Catalpa.....	134.18	
32 93 43 00-0308	EA	2-1/2" Caliper Catalpa speciosa - Western Catalpa.....	182.97	
32 93 43 00-0309	EA	3" Caliper Catalpa speciosa - Western Catalpa.....	237.87	
32 93 43 00-0310	EA	3-1/2" Caliper Catalpa speciosa - Western Catalpa.....	286.66	
32 93 43 00-0311	EA	4" Caliper Catalpa speciosa - Western Catalpa.....	329.35	
32 93 43 00-0312	EA	8' Clump Form Corylus cornuta californica - Western Filbert.....	170.78	
32 93 43 00-0313	EA	10' Clump Form Corylus cornuta californica - Western Filbert.....	207.37	
32 93 43 00-0314	EA	12' Clump Form Corylus cornuta californica - Western Filbert.....	243.97	
32 93 43 00-0315	EA	1-1/2" Caliper Diospyros - Persimmon.....	109.78	
32 93 43 00-0316	EA	2" Caliper Diospyros - Persimmon.....	134.18	
32 93 43 00-0317	EA	2-1/2" Caliper Diospyros - Persimmon.....	170.78	
32 93 43 00-0318	EA	3" Caliper Diospyros - Persimmon.....	213.47	
32 93 43 00-0319	EA	3-1/2" Caliper Diospyros - Persimmon.....	256.16	
32 93 43 00-0320	EA	2" Caliper Fagus sylvatica & cvs - European Beech.....	274.46	
32 93 43 00-0321	EA	2-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	329.35	
32 93 43 00-0322	EA	3" Caliper Fagus sylvatica & cvs - European Beech.....	396.44	
32 93 43 00-0323	EA	3-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	439.14	
32 93 43 00-0324	EA	4" Caliper Fagus sylvatica & cvs - European Beech.....	518.43	
32 93 43 00-0325	EA	4-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	670.90	
32 93 43 00-0326	EA	5" Caliper Fagus sylvatica & cvs - European Beech.....	792.89	
32 93 43 00-0327	EA	2" Caliper Fraxinus americana & cvs - White Ash.....	152.48	
32 93 43 00-0328	EA	2-1/2" Caliper Fraxinus americana & cvs - White Ash.....	182.97	
32 93 43 00-0329	EA	3" Caliper Fraxinus americana & cvs - White Ash.....	231.77	
32 93 43 00-0330	EA	3-1/2" Caliper Fraxinus americana & cvs - White Ash.....	280.56	
32 93 43 00-0331	EA	4" Caliper Fraxinus americana & cvs - White Ash.....	329.35	
32 93 43 00-0332	EA	4-1/2" Caliper Fraxinus americana & cvs - White Ash.....	365.95	
32 93 43 00-0333	EA	5" Caliper Fraxinus americana & cvs - White Ash.....	426.94	
32 93 43 00-0334	EA	1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	213.47	
32 93 43 00-0335	EA	2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	237.87	
32 93 43 00-0336	EA	2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	268.36	
32 93 43 00-0337	EA	3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	298.86	
32 93 43 00-0338	EA	3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	335.45	
32 93 43 00-0339	EA	4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	365.95	
32 93 43 00-0340	EA	4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	548.92	
32 93 43 00-0341	EA	5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	609.91	
32 93 43 00-0342	EA	2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	146.38	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0343 EA 2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	182.97	
32 93 43 00-0344 EA 3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	219.57	
32 93 43 00-0345 EA 3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	256.16	
32 93 43 00-0346 EA 4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	292.76	
32 93 43 00-0347 EA 4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	329.35	
32 93 43 00-0348 EA 5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	390.34	
32 93 43 00-0349 EA 10' - 12' Bursera Simaruba - Gumbo Limbo.....	77.15	
32 93 43 00-0350 EA 12' - 14' Bursera Simaruba - Gumbo Limbo.....	91.18	
32 93 43 00-0351 EA 14' - 16' Bursera Simaruba - Gumbo Limbo.....	126.25	
32 93 43 00-0352 EA 17' - 18' Bursera Simaruba - Gumbo Limbo.....	164.13	
32 93 43 00-0353 EA 19' - 20' Bursera Simaruba - Gumbo Limbo.....	182.36	
32 93 43 00-0354 EA 21' - 22' Bursera Simaruba - Gumbo Limbo.....	216.03	
32 93 43 00-0355 EA 1-1/2" Caliper Juglans californica - California Walnut	146.38	
32 93 43 00-0356 EA 2" Caliper Juglans californica - California Walnut	170.78	
32 93 43 00-0357 EA 2-1/2" Caliper Juglans californica - California Walnut	213.47	
32 93 43 00-0358 EA 3" Caliper Juglans californica - California Walnut	268.36	
32 93 43 00-0359 EA 3-1/2" Caliper Juglans californica - California Walnut	329.35	
32 93 43 00-0360 EA 4" Caliper Juglans californica - California Walnut	396.44	
32 93 43 00-0361 EA 4-1/2" Caliper Juglans californica - California Walnut	457.43	
32 93 43 00-0362 EA 5" Caliper Juglans californica - California Walnut	518.43	
32 93 43 00-0363 EA 5 Gallon Koelreuteria Paniculata - Goldenrain Tree	16.51	
32 93 43 00-0364 EA 15 Gallon Koelreuteria Paniculata - Goldenrain Tree	41.28	
32 93 43 00-0365 EA 20 Gallon Koelreuteria Paniculata - Goldenrain Tree	82.56	
32 93 43 00-0366 EA 55 Gallon Koelreuteria Paniculata - Goldenrain Tree	107.33	
32 93 43 00-0367 EA 1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	78.43	
32 93 43 00-0368 EA 2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	94.95	
32 93 43 00-0369 EA 2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	132.10	
32 93 43 00-0370 EA 1-1/2" Caliper Liquidambar styraciflua - American Sweetgum	195.17	
32 93 43 00-0371 EA 2" Caliper Liquidambar styraciflua - American Sweetgum	243.97	
32 93 43 00-0372 EA 2-1/2" Caliper Liquidambar styraciflua - American Sweetgum	304.96	
32 93 43 00-0373 EA 3" Caliper Liquidambar styraciflua - American Sweetgum	365.95	
32 93 43 00-0374 EA 3-1/2" Caliper Liquidambar styraciflua - American Sweetgum	426.94	
32 93 43 00-0375 EA 1-1/2" Caliper Liriodendron tulipifera - Tulip Tree	195.17	
32 93 43 00-0376 EA 2" Caliper Liriodendron tulipifera - Tulip Tree	268.36	
32 93 43 00-0377 EA 2-1/2" Caliper Liriodendron tulipifera - Tulip Tree	317.15	
32 93 43 00-0378 EA 3" Caliper Liriodendron tulipifera - Tulip Tree	365.95	
32 93 43 00-0379 EA 3-1/2" Caliper Liriodendron tulipifera - Tulip Tree	414.74	
32 93 43 00-0380 EA 8' Clump Form Liriodendron tulipifera - Tulip Tree.....	146.38	
32 93 43 00-0381 EA 10' Clump Form Liriodendron tulipifera - Tulip Tree.....	262.26	
32 93 43 00-0382 EA 12' Clump Form Liriodendron tulipifera - Tulip Tree.....	317.15	
32 93 43 00-0383 EA 1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	195.17	
32 93 43 00-0384 EA 2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	243.97	
32 93 43 00-0385 EA 2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	304.96	
32 93 43 00-0386 EA 3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	365.95	
32 93 43 00-0387 EA 3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	426.94	
32 93 43 00-0388 EA 4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	85.39	
32 93 43 00-0389 EA 5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	97.59	
32 93 43 00-0390 EA 6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	115.88	
32 93 43 00-0391 EA 7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	146.38	
32 93 43 00-0392 EA 8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	182.97	
32 93 43 00-0393 EA 30" Box Platanus Occidentalis - Buttonwood Sycamore.....	264.98	
32 93 43 00-0394 EA 36" Box Platanus Occidentalis - Buttonwood Sycamore.....	385.42	
32 93 43 00-0395 EA 42" Box Platanus occidentalis - Buttonwood Sycamore.....	573.34	
32 93 43 00-0396 EA 1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	88.66	
32 93 43 00-0397 EA 2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	106.00	
32 93 43 00-0398 EA 2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore.....	144.53	
32 93 43 00-0399 EA 3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	175.40	
32 93 43 00-0400 EA 8' To 10' Platanus occidentalis - Green Or Silver Buttonwood.....	72.95	
32 93 43 00-0401 EA 10' To 12' Platanus occidentalis - Green Or Silver Buttonwood.....	91.18	
32 93 43 00-0402 EA 12' To 14' Platanus occidentalis - Green Or Silver Buttonwood.....	161.32	
32 93 43 00-0403 EA 16' To 18' Platanus occidentalis - Green Or Silver Buttonwood.....	231.46	
32 93 43 00-0404 EA 2" Caliper Platanus x acerifolia & cvs - London Planetree.....	146.38	
32 93 43 00-0405 EA 2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	176.87	
32 93 43 00-0406 EA 3" Caliper Platanus x acerifolia & cvs - London Planetree.....	213.47	
32 93 43 00-0407 EA 3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	256.16	
32 93 43 00-0408 EA 4" Caliper Platanus x acerifolia & cvs - London Planetree.....	304.96	
32 93 43 00-0409 EA 2" Caliper Populus alba & cvs - White Poplar	146.38	
32 93 43 00-0410 EA 2-1/2" Caliper Populus alba & cvs - White Poplar	170.78	
32 93 43 00-0411 EA 3" Caliper Populus alba & cvs - White Poplar	195.17	
32 93 43 00-0412 EA 3-1/2" Caliper Populus alba & cvs - White Poplar	231.77	
32 93 43 00-0413 EA 4" Caliper Populus alba & cvs - White Poplar	256.16	
32 93 43 00-0414 EA 4-1/2" Caliper Populus alba & cvs - White Poplar	292.76	
32 93 43 00-0415 EA 2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	134.18	
32 93 43 00-0416 EA 2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	176.87	
32 93 43 00-0417 EA 3" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	213.47	
32 93 43 00-0418 EA 3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	256.16	
32 93 43 00-0419 EA 4" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	304.96	
32 93 43 00-0420 EA 2" Caliper Quercus palustris - Pin Oak	134.18	
32 93 43 00-0421 EA 2-1/2" Caliper Quercus palustris - Pin Oak	182.97	
32 93 43 00-0422 EA 3" Caliper Quercus palustris - Pin Oak	237.87	
32 93 43 00-0423 EA 3-1/2" Caliper Quercus palustris - Pin Oak	274.46	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0424 EA 4" Caliper Quercus palustris - Pin Oak	317.15	
32 93 43 00-0425 EA 4-1/2" Caliper Quercus palustris - Pin Oak	359.85	
32 93 43 00-0426 EA 5" Caliper Quercus palustris - Pin Oak	396.44	
32 93 43 00-0427 EA 2" Caliper Quercus shumardii - Shumard Oak	207.37	
32 93 43 00-0428 EA 2-1/2" Caliper Quercus shumardii - Shumard Oak	262.26	
32 93 43 00-0429 EA 3" Caliper Quercus shumardii - Shumard Oak	304.96	
32 93 43 00-0430 EA 3-1/2" Caliper Quercus shumardii - Shumard Oak	365.95	
32 93 43 00-0431 EA 4" Caliper Quercus shumardii - Shumard Oak	426.94	
32 93 43 00-0432 EA 4-1/2" Caliper Quercus shumardii - Shumard Oak	487.93	
32 93 43 00-0433 EA 5" Caliper Quercus shumardii - Shumard Oak	548.92	
32 93 43 00-0434 EA 24" Box Salix babylonica - Weeping Willow	154.16	
32 93 43 00-0435 EA 36" Box Salix babylonica - Weeping Willow	385.42	
32 93 43 00-0436 EA 1-1/2" To 2" Caliper Salix babylonica - Weeping Willow	88.66	
32 93 43 00-0437 EA 2" To 2-1/2" Caliper Salix babylonica - Weeping Willow	106.00	
32 93 43 00-0438 EA 2-1/2" To 3" Caliper Salix babylonica - Weeping Willow	115.63	
32 93 43 00-0439 EA 2' Thuja occidentalis - American Arborvitae	20.90	
32 93 43 00-0440 EA 2-1/2' Thuja occidentalis - American Arborvitae	22.59	
32 93 43 00-0441 EA 3' Thuja occidentalis - American Arborvitae	32.26	
32 93 43 00-0442 EA 4' Thuja occidentalis - American Arborvitae	44.33	
32 93 43 00-0443 EA 5' Thuja occidentalis - American Arborvitae	61.72	
32 93 43 00-0444 EA 6' Thuja occidentalis - American Arborvitae	85.57	
32 93 43 00-0445 EA 7' Thuja occidentalis - American Arborvitae	103.81	
32 93 43 00-0446 EA 8' Thuja occidentalis - American Arborvitae	145.89	
32 93 43 00-0447 EA 2" Caliper Tilia cordata & cvs - Littleleaf Linden	153.39	
32 93 43 00-0448 EA 2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	185.29	
32 93 43 00-0449 EA 3" Caliper Tilia cordata & cvs - Littleleaf Linden	213.47	
32 93 43 00-0450 EA 3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	262.26	
32 93 43 00-0451 EA 4" Caliper Tilia cordata & cvs - Littleleaf Linden	298.86	
32 93 43 00-0452 EA 4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	335.45	
32 93 43 00-0453 EA 5" Caliper Tilia cordata & cvs - Littleleaf Linden	372.05	
32 93 43 00-0454 EA 2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	170.78	
32 93 43 00-0455 EA 2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	195.17	
32 93 43 00-0456 EA 3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	213.47	
32 93 43 00-0457 EA 3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	231.77	
32 93 43 00-0458 EA 4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	256.16	
32 93 43 00-0459 EA 4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	304.96	
32 93 43 00-0460 EA 5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	359.85	
32 93 43 00-0461 EA 2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	195.17	
32 93 43 00-0462 EA 2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	213.47	
32 93 43 00-0463 EA 3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	231.77	
32 93 43 00-0464 EA 3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	256.16	
32 93 43 00-0465 EA 4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	304.96	
32 93 43 00-0466 EA 4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	359.85	
32 93 43 00-0467 EA 5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	414.74	
32 93 43 00-0468 EA 2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	195.17	
32 93 43 00-0469 EA 2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm	213.47	
32 93 43 00-0470 EA 3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	231.77	
32 93 43 00-0471 EA 3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	256.16	
32 93 43 00-0472 EA 4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	304.96	
32 93 43 00-0473 EA 4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	359.85	
32 93 43 00-0474 EA 5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	414.74	
32 93 43 00-0475 EA 1-1/2" To 2" Caliper Platanus acerifolia "Bloodgold" - London Plane	364.20	
32 93 43 00-0476 EA 2" To 2-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	650.07	
32 93 43 00-0477 EA 2-1/2" To 3" Caliper Platanus acerifolia "Bloodgold" - London Plane	951.61	
32 93 43 00-0478 EA 3" To 3-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,182.66	
32 93 43 00-0479 EA 3-1/2" To 4" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,531.20	
32 93 43 00-0480 EA 4" To 5" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,742.66	
32 93 43 00-0481 EA 24" Box Platanus acerifolia "Bloodgold" - London Plane	458.18	
32 93 43 00-0482 EA 1-1/2" Caliper Quercus suber - Cork Oak	548.25	
32 93 43 00-0483 EA 2" Caliper Quercus suber - Cork Oak	759.72	
32 93 43 00-0484 EA 2-1/2" Caliper Quercus suber - Cork Oak	971.19	
32 93 43 00-0485 EA 3" Caliper Quercus suber - Cork Oak	1,213.99	
32 93 43 00-0486 EA 3-1/2" Caliper Quercus suber - Cork Oak	1,820.99	
32 93 43 00-0487 EA 4" Caliper Quercus suber - Cork Oak	2,349.66	
32 93 43 00-0488 EA 4-1/2" Caliper Quercus suber - Cork Oak	3,054.56	
32 93 43 00-0489 EA 1-1/2" Caliper Quercus ilex - Holly Oak	607.00	
32 93 43 00-0490 EA 2" Caliper Quercus ilex - Holly Oak	818.46	
32 93 43 00-0491 EA 2-1/2" Caliper Quercus ilex - Holly Oak	1,002.52	
32 93 43 00-0492 EA 3" Caliper Quercus ilex - Holly Oak	1,213.99	
32 93 43 00-0493 EA 3-1/2" Caliper Quercus ilex - Holly Oak	1,820.99	
32 93 43 00-0494 EA 4" Caliper Quercus ilex - Holly Oak	2,349.66	

32 93 43 00-0495**Evergreen Trees (32 93 43)**

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0496 EA 2' To 3' Cedrus atlantica - Blue Atlas Cedar	26.86	
32 93 43 00-0497 EA 3' To 4' Cedrus atlantica - Blue Atlas Cedar	43.18	
32 93 43 00-0498 EA 4' To 5' Cedrus atlantica - Blue Atlas Cedar	64.15	
32 93 43 00-0499 EA 5' To 6' Cedrus atlantica - Blue Atlas Cedar	86.31	
32 93 43 00-0500 EA 7' To 8' Cedrus atlantica - Blue Atlas Cedar	122.53	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0501 EA 6' To 8' Cedrus deodara - Indian Cedar	110.87	
32 93 43 00-0502 EA 8' To 10' Cedrus deodara - Indian Cedar	128.36	
32 93 43 00-0503 EA 10' To 12' Cedrus deodara - Indian Cedar	175.02	
32 93 43 00-0504 EA 12' To 14' Cedrus deodara - Indian Cedar	227.51	
32 93 43 00-0505 EA 14' To 16' Cedrus deodara - Indian Cedar	291.72	
32 93 43 00-0506 EA 15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress	34.66	
32 93 43 00-0507 EA 18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress	51.99	
32 93 43 00-0508 EA 2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress	80.87	
32 93 43 00-0509 EA 3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress	138.63	
32 93 43 00-0510 EA 5 Gallon Cupressocyparis leylandii - Leyland Cypress	19.07	
32 93 43 00-0511 EA 15 Gallon Cupressocyparis leylandii - Leyland Cypress	76.27	
32 93 43 00-0512 EA 4' To 5' Cupressocyparis leylandii - Leyland Cypress	33.37	
32 93 43 00-0513 EA 5' To 6' Cupressocyparis leylandii - Leyland Cypress	42.90	
32 93 43 00-0514 EA 6' To 7' Cupressocyparis leylandii - Leyland Cypress	66.73	
32 93 43 00-0515 EA 24" Box Cupressocyparis leylandii - Leyland Cypress	162.07	
32 93 43 00-0516 EA 1 Gallon Cupressus macrocarpa - Monterey Cypress	3.48	
32 93 43 00-0517 EA 5 Gallon Cupressus macrocarpa - Monterey Cypress	15.65	
32 93 43 00-0518 EA 15 Gallon Cupressus macrocarpa - Monterey Cypress	52.15	
32 93 43 00-0519 EA 5 Gallon Cupressus sempervirens - Italian Cypress	17.95	
32 93 43 00-0520 EA 15 Gallon Cupressus sempervirens - Italian Cypress	49.35	
32 93 43 00-0521 EA 1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	5.27	
32 93 43 00-0522 EA 2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	10.32	
32 93 43 00-0523 EA 3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	12.79	
32 93 43 00-0524 EA 5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	15.03	
32 93 43 00-0525 EA 1 Gallon Juniperus - Blue Sargent Juniper	5.27	
32 93 43 00-0526 EA 2 Gallon Juniperus - Blue Sargent Juniper	10.32	
32 93 43 00-0527 EA 3 Gallon Juniperus - Blue Sargent Juniper	12.79	
32 93 43 00-0528 EA 5 Gallon Juniperus - Blue Sargent Juniper	15.03	
32 93 43 00-0529 EA 5 Gallon Juniperus - Compact Pfitzer Juniper	15.03	
32 93 43 00-0530 EA 15" To 18" Juniperus - Compact Pfitzer Juniper	16.26	
32 93 43 00-0531 EA 18" To 24" Juniperus - Compact Pfitzer Juniper	19.63	
32 93 43 00-0532 EA 2' To 2 1/2' Juniperus - Compact Pfitzer Juniper	29.16	
32 93 43 00-0533 EA 2-1/2' To 3' Juniperus - Compact Pfitzer Juniper	33.76	
32 93 43 00-0534 EA 5' To 6' Juniperus - Fairview Juniper	50.28	
32 93 43 00-0535 EA 1 Gallon Juniperus - Hollywood Juniper	6.73	
32 93 43 00-0536 EA 5 Gallon Juniperus - Hollywood Juniper	18.73	
32 93 43 00-0537 EA 15 Gallon Juniperus - Hollywood Juniper	79.41	
32 93 43 00-0538 EA 4' To 5' Juniperus - Hollywood Juniper	52.49	
32 93 43 00-0539 EA 5' To 6' Juniperus - Hollywood Juniper	67.63	
32 93 43 00-0540 EA 1 Gallon Juniperus - Parson's Juniper	5.27	
32 93 43 00-0541 EA 2 Gallon Juniperus - Parson's Juniper	10.43	
32 93 43 00-0542 EA 3 Gallon Juniperus - Parson's Juniper	12.90	
32 93 43 00-0543 EA 5 Gallon Juniperus - Parson's Juniper	15.25	
32 93 43 00-0544 EA 5 Gallon Juniperus - Skyrocket Juniper	18.84	
32 93 43 00-0545 EA 15 Gallon Juniperus - Skyrocket Juniper	80.19	
32 93 43 00-0546 EA 2' To 3' Juniperus - Skyrocket Juniper	28.26	
32 93 43 00-0547 EA 3' To 4' Juniperus - Skyrocket Juniper	40.04	
32 93 43 00-0548 EA 4' To 5' Juniperus - Skyrocket Juniper	53.05	
32 93 43 00-0549 EA 5' To 6' Juniperus - Skyrocket Juniper	68.42	
32 93 43 00-0550 EA 6' To 8' Juniperus - Skyrocket Juniper	88.38	
32 93 43 00-0551 EA 1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	5.27	
32 93 43 00-0552 EA 2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	10.38	
32 93 43 00-0553 EA 3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	12.73	
32 93 43 00-0554 EA 5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	15.09	
32 93 43 00-0555 EA 1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	5.27	
32 93 43 00-0556 EA 2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	10.38	
32 93 43 00-0557 EA 3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	12.73	
32 93 43 00-0558 EA 5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	15.09	
32 93 43 00-0559 EA 3' Pinus sylvestris - Scotch Pine	48.99	
32 93 43 00-0560 EA 4' Pinus sylvestris - Scotch Pine	68.01	
32 93 43 00-0561 EA 5' Pinus sylvestris - Scotch Pine	95.45	
32 93 43 00-0562 EA 6' Pinus sylvestris - Scotch Pine	132.44	
32 93 43 00-0563 EA 7' Pinus sylvestris - Scotch Pine	162.26	
32 93 43 00-0564 EA 8' Pinus sylvestris - Scotch Pine	229.08	
32 93 43 00-0565 EA 9' Pinus sylvestris - Scotch Pine	290.82	
32 93 43 00-0566 EA 10' Pinus sylvestris - Scotch Pine	335.56	
32 93 43 00-0567 EA 12' Pinus sylvestris - Scotch Pine	395.22	
32 93 43 00-0568 EA 14' Pinus sylvestris - Scotch Pine	447.42	
32 93 43 00-0569 EA 16' Pinus sylvestris - Scotch Pine	521.99	
32 93 43 00-0570 EA 1 Gallon Pinus thunbergiana - Japanese Black Pine	5.27	
32 93 43 00-0571 EA 5 Gallon Pinus thunbergiana - Japanese Black Pine	18.73	
32 93 43 00-0572 EA 15 Gallon Pinus thunbergiana - Japanese Black Pine	60.68	
32 93 43 00-0573 EA 2' To 3' Pinus thunbergiana - Japanese Black Pine	25.68	
32 93 43 00-0574 EA 3' To 4' Pinus thunbergiana - Japanese Black Pine	32.64	
32 93 43 00-0575 EA 4' To 5' Pinus thunbergiana - Japanese Black Pine	49.01	
32 93 43 00-0576 EA 5' To 6' Pinus thunbergiana - Japanese Black Pine	95.67	
32 93 43 00-0577 EA 6' To 7' Pinus Thunbergiana - Japanese Black Pine	107.33	
32 93 43 00-0578 EA 7' To 8' Pinus thunbergiana - Japanese Black Pine	134.14	
32 93 43 00-0579 EA 6' Pinus flexilis & cvs - Limber Pine	186.42	
32 93 43 00-0580 EA 7' Pinus flexilis & cvs - Limber Pine	216.25	
32 93 43 00-0581 EA 8' Pinus flexilis & cvs - Limber Pine	268.45	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0582	EA	9' Pinus flexilis & cvs - Limber Pine	328.11	
32 93 43 00-0583	EA	10' Pinus flexilis & cvs - Limber Pine	372.85	
32 93 43 00-0584	EA	1 Gallon Pinus mugo - Mugho Pine	6.95	
32 93 43 00-0585	EA	2 Gallon Pinus mugo - Mugho Pine	14.69	
32 93 43 00-0586	EA	3 Gallon Pinus mugo - Mugho Pine	18.39	
32 93 43 00-0587	EA	5 Gallon Pinus mugo - Mugho Pine	23.33	
32 93 43 00-0588	EA	12" To 15" Spread Pinus mugo - Mugho Pine	18.06	
32 93 43 00-0589	EA	15" To 18" Spread Pinus mugo - Mugho Pine	21.53	
32 93 43 00-0590	EA	18" To 24" Spread Pinus mugo - Mugho Pine	29.16	
32 93 43 00-0591	EA	2' To 2-1/2' Spread Pinus mugo - Mugho Pine	40.83	
32 93 43 00-0592	EA	2-1/2' To 3' Spread Pinus mugo - Mugho Pine	52.49	
32 93 43 00-0593	EA	3' To 3-1/2' Spread Pinus mugo - Mugho Pine	65.39	
32 93 43 00-0594	EA	3-1/2' To 4' Spread Pinus mugo - Mugho Pine	79.41	
32 93 43 00-0595	EA	6' Pinus nigra - Austrian Pine	186.42	
32 93 43 00-0596	EA	7' Pinus nigra - Austrian Pine	223.71	
32 93 43 00-0597	EA	8' Pinus nigra - Austrian Pine	290.82	
32 93 43 00-0598	EA	9' Pinus nigra - Austrian Pine	335.56	
32 93 43 00-0599	EA	10' Pinus nigra - Austrian Pine	395.22	
32 93 43 00-0600	EA	12' Pinus nigra - Austrian Pine	447.42	
32 93 43 00-0601	EA	14' Pinus nigra - Austrian Pine	499.62	
32 93 43 00-0602	EA	16' Pinus nigra - Austrian Pine	566.73	
32 93 43 00-0603	EA	1 Gallon Podocarpus - Chinese Podocarpus	3.48	
32 93 43 00-0604	EA	3 Gallon Podocarpus - Chinese Podocarpus	8.08	
32 93 43 00-0605	EA	7 Gallon Podocarpus - Chinese Podocarpus	23.33	
32 93 43 00-0606	EA	15 Gallon Podocarpus - Chinese Podocarpus	37.91	
32 93 43 00-0607	EA	4' To 5' Podocarpus - Chinese Podocarpus	58.32	
32 93 43 00-0608	EA	5' To 6' Sequoia sempervirens - Dawn Redwood	72.90	
32 93 43 00-0609	EA	6' To 8' Sequoia sempervirens - Dawn Redwood	98.42	
32 93 43 00-0610	EA	8' To 10' Sequoia sempervirens - Dawn Redwood	120.29	
32 93 43 00-0611	EA	3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae	14.06	
32 93 43 00-0612	EA	3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae	26.32	
32 93 43 00-0613	EA	6' Cedrus decurrens - Incense Cedar	125.20	
32 93 43 00-0614	EA	8' Cedrus decurrens - Incense Cedar	258.98	
32 93 43 00-0615	EA	10' Cedrus decurrens - Incense Cedar	343.02	
32 93 43 00-0616	EA	12' Cedrus decurrens - Incense Cedar	454.50	
32 93 43 00-0617	EA	6' Melaleuca linariifolia - Flaxleaf Paperbark	360.17	
32 93 43 00-0618	EA	8' Melaleuca linariifolia - Flaxleaf Paperbark	480.23	
32 93 43 00-0619	EA	10' Melaleuca linariifolia - Flaxleaf Paperbark	600.28	
32 93 43 00-0620	EA	12' Melaleuca linariifolia - Flaxleaf Paperbark	720.34	
32 93 43 00-0621	EA	24" Box Melaleuca linariifolia - Flaxleaf Paperbark	356.74	
32 93 43 00-0622	EA	6' Melaleuca quinquenervia - Cajeput Tree	360.17	
32 93 43 00-0623	EA	8' Melaleuca quinquenervia - Cajeput Tree	480.23	
32 93 43 00-0624	EA	10' Melaleuca quinquenervia - Cajeput Tree	600.28	
32 93 43 00-0625	EA	12' Melaleuca quinquenervia - Cajeput Tree	720.34	
32 93 43 00-0626	EA	24" Box Melaleuca quinquenervia - Cajeput Tree	200.67	
32 93 43 00-0627	EA	30" Box Melaleuca quinquenervia - Cajeput Tree	505.95	
32 93 43 00-0628	EA	36" Box Melaleuca quinquenervia - Cajeput Tree	797.52	
32 93 43 00-0629	EA	4' Metrosideros excelsus - New Zealand Christmas Tree	106.34	
32 93 43 00-0630	EA	5' Metrosideros excelsus - New Zealand Christmas Tree	144.07	
32 93 43 00-0631	EA	6' Metrosideros excelsus - New Zealand Christmas Tree	245.26	
32 93 43 00-0632	EA	8' Metrosideros excelsus - New Zealand Christmas Tree	303.57	
32 93 43 00-0633	EA	24" Box Metrosideros excelsus - New Zealand Christmas Tree	200.00	
32 93 43 00-0634	EA	6' Pinus canariensis - Canary Island Pine	411.62	
32 93 43 00-0635	EA	8' Pinus canariensis - Canary Island Pine	548.83	
32 93 43 00-0636	EA	10' Pinus canariensis - Canary Island Pine	686.04	
32 93 43 00-0637	EA	12' Pinus canariensis - Canary Island Pine	823.25	
32 93 43 00-0638	EA	24" Box Pinus canariensis - Canary Island Pine	423.63	
32 93 43 00-0639	EA	6' Pinus pinea - Italian Stone Pine	411.62	
32 93 43 00-0640	EA	8' Pinus pinea - Italian Stone Pine	548.83	
32 93 43 00-0641	EA	10' Pinus pinea - Italian Stone Pine	686.04	
32 93 43 00-0642	EA	12' Pinus pinea - Italian Stone Pine	823.25	
32 93 43 00-0643	EA	6' Pittosporum undulatum - Victorian Box	226.39	
32 93 43 00-0644	EA	8' Pittosporum undulatum - Victorian Box	358.46	
32 93 43 00-0645	EA	10' Pittosporum undulatum - Victorian Box	471.65	
32 93 43 00-0646	EA	6' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	428.78	
32 93 43 00-0647	EA	8' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	565.98	
32 93 43 00-0648	EA	10' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	720.34	
32 93 43 00-0649	EA	12' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	857.55	
32 93 43 00-0650	EA	24" Box Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine	200.67	
32 93 43 00-0651	EA	1 Gallon Podocarpus macrophyllus - Yew Pine	7.98	
32 93 43 00-0652	EA	3 Gallon Podocarpus macrophyllus - Yew Pine	18.69	
32 93 43 00-0653	EA	5 Gallon Podocarpus macrophyllus - Yew Pine	24.53	
32 93 43 00-0654	EA	15 Gallon Podocarpus macrophyllus - Yew Pine	106.34	
32 93 43 00-0655	EA	24" Box Podocarpus macrophyllus - Yew Pine	205.81	
32 93 43 00-0656	EA	24" Box Rhus lancea - African Sumac	211.81	
32 93 43 00-0657	EA	30" Box Rhus lancea - African Sumac	343.02	
32 93 43 00-0658	EA	8' Rhus lancea - African Sumac	514.53	
32 93 43 00-0659	EA	10' Rhus lancea - African Sumac	574.56	
32 93 43 00-0660	EA	12' Rhus lancea - African Sumac	686.04	



Exterior Improvements	32	32
Planting	32 90	
Plants	32 93	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 93 43 00-0661

Palm And Subtropical Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0662	EA	4' To 5' Archontophoenix cunninghamiana - King Palm.....	114.75
32 93 43 00-0663	EA	6' To 8' Archontophoenix cunninghamiana - King Palm.....	178.50
32 93 43 00-0664	EA	8' To 10' Archontophoenix cunninghamiana - King Palm.....	229.50
32 93 43 00-0665	EA	10' To 12' Archontophoenix cunninghamiana - King Palm.....	306.00
32 93 43 00-0666	EA	4' To 5' Arecastrum romanzoffianum - Queen Palm.....	86.93
32 93 43 00-0667	EA	6' To 8' Arecastrum romanzoffianum - Queen Palm.....	121.71
32 93 43 00-0668	EA	8' To 10' Arecastrum romanzoffianum - Queen Palm.....	156.48
32 93 43 00-0669	EA	10' To 12' Arecastrum romanzoffianum - Queen Palm.....	191.25
32 93 43 00-0670	EA	12' To 14' Arecastrum romanzoffianum - Queen Palm.....	231.82
32 93 43 00-0671	EA	14' To 16' Arecastrum romanzoffianum - Queen Palm.....	289.78
32 93 43 00-0672	EA	3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm.....	243.41
32 93 43 00-0673	EA	5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm.....	382.50
32 93 43 00-0674	EA	3' To 4' Chamaerops humilis - European Fan Palm.....	208.64
32 93 43 00-0675	EA	5' To 6' Chamaerops humilis - European Fan Palm.....	278.18
32 93 43 00-0676	EA	7' To 8' Chamaerops humilis - European Fan Palm.....	649.10
32 93 43 00-0677	EA	9' To 10' Chamaerops humilis - European Fan Palm.....	1,112.74
32 93 43 00-0678	EA	12' To 16' Cocos nucifera - Coconut Palm.....	488.84
32 93 43 00-0679	EA	6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	162.27
32 93 43 00-0680	EA	8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	324.55
32 93 43 00-0681	EA	10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	417.28
32 93 43 00-0682	EA	12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	579.55
32 93 43 00-0683	EA	4' To 5' Rhaps excelsa - Lady Palm.....	440.46
32 93 43 00-0684	EA	6' To 7' Rhaps excelsa - Lady Palm.....	625.91
32 93 43 00-0685	EA	8' To 9' Roystonea regia - Royal Palm.....	354.68
32 93 43 00-0686	EA	10' To 11' Roystonea regia - Royal Palm.....	433.50
32 93 43 00-0687	EA	12' To 13' Roystonea regia - Royal Palm.....	512.32
32 93 43 00-0688	EA	14' To 15' Roystonea regia - Royal Palm.....	591.14
32 93 43 00-0689	EA	16' To 17' Roystonea regia - Royal Palm.....	669.96
32 93 43 00-0690	EA	18' To 19' Roystonea regia - Royal Palm.....	748.78
32 93 43 00-0691	EA	20' To 21' Roystonea regia - Royal Palm.....	827.60
32 93 43 00-0692	EA	10' To 16' Sabal palmetto - Cabbage Palm.....	179.25
32 93 43 00-0693	EA	6' To 7' Thrinax morrisii - Key Thatch Palm.....	486.82
32 93 43 00-0694	EA	8' To 9' Thrinax morrisii - Key Thatch Palm.....	625.91
32 93 43 00-0695	EA	10' To 11' Thrinax morrisii - Key Thatch Palm.....	765.01
32 93 43 00-0696	EA	9' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	173.86
32 93 43 00-0697	EA	11' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	289.78
32 93 43 00-0698	EA	15' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	440.46
32 93 43 00-0699	EA	17' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	498.41
32 93 43 00-0700	EA	20' Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	579.55
32 93 43 00-0701	EA	4' To 5' Bauninia blakeana - Hong Kong Orchid.....	498.41
32 93 43 00-0702	EA	6' Bauninia blakeana - Hong Kong Orchid.....	591.14
32 93 43 00-0703	EA	8' Bauninia blakeana - Hong Kong Orchid.....	788.19
32 93 43 00-0704	EA	10' Bauninia blakeana - Hong Kong Orchid.....	985.24
32 93 43 00-0705	EA	4' To 5' Acacia baileyana - Bailey Acacia.....	280.56
32 93 43 00-0706	EA	6' Acacia baileyana - Bailey Acacia.....	336.67
32 93 43 00-0707	EA	8' Acacia baileyana - Bailey Acacia.....	392.78
32 93 43 00-0708	EA	10' Acacia baileyana - Bailey Acacia.....	490.98
32 93 43 00-0709	EA	6' Agonis flexuosa - Peppermint Tree.....	168.34
32 93 43 00-0710	EA	8' Agonis flexuosa - Peppermint Tree.....	210.42
32 93 43 00-0711	EA	10' Agonis flexuosa - Peppermint Tree.....	252.50
32 93 43 00-0712	EA	24" Box Agonis flexuosa - Peppermint Tree.....	209.72
32 93 43 00-0713	EA	6' Bauhinia purpurea - Purple Orchid Tree.....	625.91
32 93 43 00-0714	EA	8' Bauhinia purpurea - Purple Orchid Tree.....	834.55
32 93 43 00-0715	EA	10' Bauhinia purpurea - Purple Orchid Tree.....	1,043.19
32 93 43 00-0716	EA	24" Box Bauhinia purpurea - Purple Orchid Tree.....	271.23
32 93 43 00-0717	EA	6' Bauhinia variegata candida - White Orchid Tree.....	695.46
32 93 43 00-0718	EA	8' Bauhinia variegata candida - White Orchid Tree.....	927.28
32 93 43 00-0719	EA	10' Bauhinia variegata candida - White Orchid Tree.....	1,159.10
32 93 43 00-0720	EA	6' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	378.76
32 93 43 00-0721	EA	8' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	505.01
32 93 43 00-0722	EA	10' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	631.26
32 93 43 00-0723	EA	6' Eriobotrya deflexa - Bronze Loquat.....	625.91
32 93 43 00-0724	EA	8' Eriobotrya deflexa - Bronze Loquat.....	834.55
32 93 43 00-0725	EA	10' Eriobotrya deflexa - Bronze Loquat.....	1,043.19
32 93 43 00-0726	EA	6' Eucalyptus erythrocorys - Red Cap Gum.....	625.91
32 93 43 00-0727	EA	8' Eucalyptus erythrocorys - Red Cap Gum.....	834.55
32 93 43 00-0728	EA	10' Eucalyptus erythrocorys - Red Cap Gum.....	1,043.19
32 93 43 00-0729	EA	6' Eucalyptus torquata - Coral Gum.....	625.91
32 93 43 00-0730	EA	8' Eucalyptus torquata - Coral Gum.....	834.55
32 93 43 00-0731	EA	10' Eucalyptus torquata - Coral Gum.....	1,043.19
32 93 43 00-0732	EA	8' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	392.78
32 93 43 00-0733	EA	10' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	533.06
32 93 43 00-0734	EA	12' Fraxinus oxycarpa "Raywood" - Raywood Ash.....	659.32
32 93 43 00-0735	EA	1 Gallon Washingtonia robusta - Mexican Fan Palm.....	9.54
32 93 43 00-0736	EA	5 Gallon Washingtonia robusta - Mexican Fan Palm.....	29.68
32 93 43 00-0737	EA	15 Gallon Washingtonia robusta - Mexican Fan Palm.....	103.88
32 93 43 00-0738	EA	24" Box Washingtonia robusta - Mexican Fan Palm.....	339.22
32 93 43 00-0739	EA	36" Box Washingtonia robusta - Mexican Fan Palm.....	901.04

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0740	EA	6' Washingtonia robusta - Mexican Fan Palm.....	625.91	
32 93 43 00-0741	EA	8' Washingtonia robusta - Mexican Fan Palm.....	834.55	
32 93 43 00-0742	EA	10' Washingtonia robusta - Mexican Fan Palm.....	1,043.19	
32 93 43 00-0743	EA	12' Washingtonia robusta - Mexican Fan Palm.....	1,251.83	
32 93 43 00-0744	EA	6' Olea europaea - Olive "Fruitless".....	463.08	
32 93 43 00-0745	EA	8' Olea europaea - Olive "Fruitless".....	617.44	
32 93 43 00-0746	EA	10' Olea europaea - Olive "Fruitless".....	771.80	
32 93 43 00-0747	EA	12' Olea europaea - Olive "Fruitless".....	926.15	
32 93 43 00-0748	EA	24" Box Olea europaea - Olive "Fruitless".....	569.41	
32 93 43 00-0749	EA	6' Eucalyptus polyanthemos - Silver Dollar Gum.....	625.91	
32 93 43 00-0750	EA	8' Eucalyptus polyanthemos - Silver Dollar Gum.....	834.55	
32 93 43 00-0751	EA	10' Eucalyptus polyanthemos - Silver Dollar Gum.....	1,043.19	
32 93 43 00-0752	EA	6' Eucalyptus leucosylon - White Ironbark.....	625.91	
32 93 43 00-0753	EA	8' Eucalyptus leucosylon - White Ironbark.....	834.55	
32 93 43 00-0754	EA	10' Eucalyptus leucosylon - White Ironbark.....	1,043.19	
32 93 43 00-0755	EA	12' Eucalyptus leucosylon - White Ironbark.....	1,251.83	
32 93 43 00-0756	EA	6' Callistemon viminalis - Weeping Bottle Brush.....	378.76	
32 93 43 00-0757	EA	8' Callistemon viminalis - Weeping Bottle Brush.....	505.01	
32 93 43 00-0758	EA	10' Callistemon viminalis - Weeping Bottle Brush.....	631.26	
32 93 43 00-0759	EA	12' Callistemon viminalis - Weeping Bottle Brush.....	757.51	
32 93 43 00-0760	EA	6' Eucalyptus gunnii - Cider Gum.....	625.91	
32 93 43 00-0761	EA	8' Eucalyptus gunnii - Cider Gum.....	834.55	
32 93 43 00-0762	EA	10' Eucalyptus gunnii - Cider Gum.....	1,043.19	
32 93 43 00-0763	EA	6' Jacarandra acutifolia - Jacaranda.....	625.91	
32 93 43 00-0764	EA	8' Jacarandra acutifolia - Jacaranda.....	834.55	
32 93 43 00-0765	EA	10' Jacarandra acutifolia - Jacaranda.....	1,043.19	
32 93 43 00-0766	EA	24" Box Jacarandra acutifolia - Jacaranda.....	271.23	
32 93 43 00-0767	EA	5 Gallon Phoenix roebelenii - Pygmy Date Palm.....	43.24	
32 93 43 00-0768	EA	7 Gallon Phoenix roebelenii - Pygmy Date Palm.....	105.39	
32 93 43 00-0769	EA	15 Gallon Phoenix roebelenii - Pygmy Date Palm.....	159.44	
32 93 43 00-0770	EA	24" Box Phoenix roebelenii - Pygmy Date Palm.....	472.92	
32 93 43 00-0771	EA	5 Gallon Pistacia chinensis - Chinese Pistache.....	41.73	
32 93 43 00-0772	EA	15 Gallon Pistacia chinensis - Chinese Pistache.....	139.09	
32 93 43 00-0773	EA	24" Box Pistacia chinensis - Chinese Pistache.....	540.14	
32 93 43 00-0774	EA	36" Box Pistacia chinensis - Chinese Pistache.....	1,437.28	
32 93 43 00-0775	EA	48" Box Pistacia chinensis - Chinese Pistache.....	3,060.02	
32 93 43 00-0776	EA	5 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	26.09	
32 93 43 00-0777	EA	15 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	86.97	
32 93 43 00-0778	EA	24" Box Pyrus kawakamii - Evergreen Pear, Single.....	326.85	
32 93 43 00-0779	EA	30" Box Pyrus kawakamii - Evergreen Pear, Single.....	597.59	
32 93 43 00-0780	EA	36" Box Pyrus kawakamii - Evergreen Pear, Single.....	869.74	
32 93 43 00-0781	EA	5 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	26.09	
32 93 43 00-0782	EA	15 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	92.58	
32 93 43 00-0783	EA	24" Box Pyrus kawakamii - Evergreen Pear, Multi.....	336.67	
32 93 43 00-0784	EA	30" Box Pyrus kawakamii - Evergreen Pear, Multi.....	597.59	
32 93 43 00-0785	EA	36" Box Pyrus kawakamii - Evergreen Pear, Multi.....	869.74	

32 93 83 Planting of Trees, Shrubs and Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees (32 93 83)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA	3" To 5" Bare Root Seedlings Tree Planting.....	1.50	
32 93 83 00-0003	EA	6" To 10" Bare Root Seedlings Tree Planting.....	2.40	
32 93 83 00-0004	EA	11" To 16" Bare Root Seedlings Tree Planting.....	3.00	
32 93 83 00-0005	EA	17" To 24" Bare Root Seedlings Tree Planting.....	4.80	
32 93 83 00-0006	EA	1 Gallon Container Tree Planting.....	24.02	
		For >10 To 25, Deduct.....	-1.20	
		For >25 To 50, Deduct.....	-3.00	
		For >50 To 100, Deduct.....	-4.80	
		For >100, Deduct.....	-7.21	
32 93 83 00-0007	EA	2 Gallon Container Tree Planting.....	33.63	
		For >10 To 25, Deduct.....	-1.68	
		For >25 To 50, Deduct.....	-4.20	
		For >50 To 100, Deduct.....	-6.73	
		For >100, Deduct.....	-10.09	
32 93 83 00-0008	EA	3 Gallon Container Tree Planting.....	43.23	
		For >10 To 25, Deduct.....	-2.16	
		For >25 To 50, Deduct.....	-5.40	
		For >50 To 100, Deduct.....	-8.65	
		For >100, Deduct.....	-12.97	
32 93 83 00-0009	EA	5 Gallon Container Tree Planting.....	72.04	
		For >10 To 25, Deduct.....	-3.60	
		For >25 To 50, Deduct.....	-9.01	
		For >50 To 100, Deduct.....	-14.41	
		For >100, Deduct.....	-21.61	
32 93 83 00-0010	EA	7 Gallon Container Tree Planting.....	96.06	
		For >10 To 25, Deduct.....	-4.80	
		For >25 To 50, Deduct.....	-12.01	
		For >50 To 100, Deduct.....	-19.21	
		For >100, Deduct.....	-28.82	



Exterior Improvements		32	32
Planting		32 90	
Plants		32 93	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0011 EA 10 Gallon Container Tree Planting.....	124.88	
For >10 To 25, Deduct	-6.24	
For >25 To 50, Deduct	-15.61	
For >50 To 100, Deduct	-24.98	
For >100, Deduct	-37.46	
32 93 83 00-0012 EA 15 Gallon Container Tree Planting.....	177.71	
For >10 To 25, Deduct	-8.89	
For >25 To 50, Deduct	-22.21	
For >50 To 100, Deduct	-35.54	
For >100, Deduct	-53.31	
32 93 83 00-0013 EA 20 Gallon Container Tree Planting.....	292.99	
For >10 To 25, Deduct	-14.65	
For >25 To 50, Deduct	-36.62	
For >50 To 100, Deduct	-58.60	
For >100, Deduct	-87.90	
32 93 83 00-0014 EA 25 Gallon Container Tree Planting.....	379.45	
For >10 To 25, Deduct	-18.97	
For >25 To 50, Deduct	-47.43	
For >50 To 100, Deduct	-75.89	
For >100, Deduct	-113.84	
32 93 83 00-0015 EA 30 Gallon Container Tree Planting.....	456.30	
For >10 To 25, Deduct	-22.82	
For >25 To 50, Deduct	-57.04	
For >50 To 100, Deduct	-91.26	
For >100, Deduct	-136.89	
32 93 83 00-0016 EA 45 Gallon Container Tree Planting.....	566.77	
For >10 To 25, Deduct	-28.34	
For >25 To 50, Deduct	-70.85	
For >50 To 100, Deduct	-113.35	
For >100, Deduct	-170.03	
32 93 83 00-0017 EA 65 Gallon Container Tree Planting.....	672.44	
For >10 To 25, Deduct	-33.62	
For >25 To 50, Deduct	-84.06	
For >50 To 100, Deduct	-134.49	
For >100, Deduct	-201.73	
32 93 83 00-0018 EA 6' Balled And Burlapped Tree Planting.....	240.16	
For >10 To 25, Deduct	-12.01	
For >25 To 50, Deduct	-30.02	
For >50 To 100, Deduct	-48.03	
For >100, Deduct	-72.05	
32 93 83 00-0019 EA 7' Balled And Burlapped Tree Planting.....	319.89	
For >10 To 25, Deduct	-15.99	
For >25 To 50, Deduct	-39.99	
For >50 To 100, Deduct	-63.98	
For >100, Deduct	-95.97	
32 93 83 00-0020 EA 8' Balled And Burlapped Tree Planting.....	360.24	
For >10 To 25, Deduct	-18.01	
For >25 To 50, Deduct	-45.03	
For >50 To 100, Deduct	-72.05	
For >100, Deduct	-108.07	
32 93 83 00-0021 EA 10' Balled And Burlapped Tree Planting.....	420.27	
For >10 To 25, Deduct	-21.01	
For >25 To 50, Deduct	-52.53	
For >50 To 100, Deduct	-84.05	
For >100, Deduct	-126.08	
32 93 83 00-0022 EA 12' Balled And Burlapped Tree Planting.....	561.97	
For >10 To 25, Deduct	-28.10	
For >25 To 50, Deduct	-70.25	
For >50 To 100, Deduct	-112.39	
For >100, Deduct	-168.59	
32 93 83 00-0023 EA 14' Balled And Burlapped Tree Planting.....	643.62	
For >10 To 25, Deduct	-32.18	
For >25 To 50, Deduct	-80.45	
For >50 To 100, Deduct	-128.72	
For >100, Deduct	-193.09	
32 93 83 00-0024 EA 16' Balled And Burlapped Tree Planting.....	780.51	
For >10 To 25, Deduct	-39.03	
For >25 To 50, Deduct	-97.56	
For >50 To 100, Deduct	-156.10	
For >100, Deduct	-234.15	
32 93 83 00-0025 EA 18' Balled And Burlapped Tree Planting.....	936.62	
For >10 To 25, Deduct	-46.83	
For >25 To 50, Deduct	-117.08	
For >50 To 100, Deduct	-187.32	
For >100, Deduct	-280.99	
32 93 83 00-0026 EA 20' Balled And Burlapped Tree Planting.....	1,080.71	
For >10 To 25, Deduct	-54.04	
For >25 To 50, Deduct	-135.09	
For >50 To 100, Deduct	-216.14	
For >100, Deduct	-324.21	
32 93 83 00-0027 EA 1-1/2" Caliper Balled And Burlapped Tree Planting.....	360.24	
For >10 To 25, Deduct	-18.01	
For >25 To 50, Deduct	-45.03	
For >50 To 100, Deduct	-72.05	
For >100, Deduct	-108.07	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0028 EA 2" Caliper Balled And Burlapped Tree Planting	420.27	
For>10 To 25, Deduct	-21.01	
For>25 To 50, Deduct	-52.53	
For>50 To 100, Deduct	-84.05	
For>100, Deduct	-126.08	
32 93 83 00-0029 EA 2-1/2" Caliper Balled And Burlapped Tree Planting	564.37	
For>10 To 25, Deduct	-28.22	
For>25 To 50, Deduct	-70.55	
For>50 To 100, Deduct	-112.87	
For>100, Deduct	-169.31	
32 93 83 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting	648.42	
For>10 To 25, Deduct	-32.42	
For>25 To 50, Deduct	-81.05	
For>50 To 100, Deduct	-129.68	
For>100, Deduct	-194.53	
32 93 83 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting	720.48	
For>10 To 25, Deduct	-36.02	
For>25 To 50, Deduct	-90.06	
For>50 To 100, Deduct	-144.10	
For>100, Deduct	-216.14	
32 93 83 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting	826.15	
For>10 To 25, Deduct	-41.31	
For>25 To 50, Deduct	-103.27	
For>50 To 100, Deduct	-165.23	
For>100, Deduct	-247.85	
32 93 83 00-0033 Planting Shrubs (32 93 83)		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034 EA 1 Gallon Container Shrub Planting	20.42	
For>10 To 25, Deduct	-1.02	
For>25 To 50, Deduct	-2.55	
For>50 To 100, Deduct	-4.08	
For>100, Deduct	-6.13	
32 93 83 00-0035 EA 2 Gallon Container Shrub Planting	28.82	
For>10 To 25, Deduct	-1.44	
For>25 To 50, Deduct	-3.60	
For>50 To 100, Deduct	-5.76	
For>100, Deduct	-8.65	
32 93 83 00-0036 EA 3 Gallon Container Shrub Planting	36.03	
For>10 To 25, Deduct	-1.80	
For>25 To 50, Deduct	-4.50	
For>50 To 100, Deduct	-7.21	
For>100, Deduct	-10.81	
32 93 83 00-0037 EA 4 Gallon Container Shrub Planting	48.04	
For>10 To 25, Deduct	-2.40	
For>25 To 50, Deduct	-6.01	
For>50 To 100, Deduct	-9.61	
For>100, Deduct	-14.41	
32 93 83 00-0038 EA 5 Gallon Container Shrub Planting	60.03	
For>10 To 25, Deduct	-3.00	
For>25 To 50, Deduct	-7.50	
For>50 To 100, Deduct	-12.01	
For>100, Deduct	-18.01	
32 93 83 00-0039 EA 7 Gallon Container Shrub Planting	81.65	
For>10 To 25, Deduct	-4.08	
For>25 To 50, Deduct	-10.21	
For>50 To 100, Deduct	-16.33	
For>100, Deduct	-24.50	
32 93 83 00-0040 EA 10 Gallon Container Shrub Planting	108.07	
For>10 To 25, Deduct	-5.40	
For>25 To 50, Deduct	-13.51	
For>50 To 100, Deduct	-21.61	
For>100, Deduct	-32.42	
32 93 83 00-0041 EA 15 Gallon Container Shrub Planting	148.90	
For>10 To 25, Deduct	-7.45	
For>25 To 50, Deduct	-18.61	
For>50 To 100, Deduct	-29.78	
For>100, Deduct	-44.67	
32 93 83 00-0042 EA 20 Gallon Container Shrub Planting	249.77	
For>10 To 25, Deduct	-12.49	
For>25 To 50, Deduct	-31.22	
For>50 To 100, Deduct	-49.95	
For>100, Deduct	-74.93	
32 93 83 00-0043 EA 25 Gallon Container Shrub Planting	319.89	
For>10 To 25, Deduct	-15.99	
For>25 To 50, Deduct	-39.99	
For>50 To 100, Deduct	-63.98	
For>100, Deduct	-95.97	
32 93 83 00-0044 EA 15" Balled And Burlapped Shrub Planting	67.24	
For>10 To 25, Deduct	-3.36	
For>25 To 50, Deduct	-8.41	
For>50 To 100, Deduct	-13.45	
For>100, Deduct	-20.17	



Exterior Improvements			32
Planting			32 90
Plants			32 93

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0045	EA		18" Balled And Burlapped Shrub Planting	69.64	
			For >10 To 25, Deduct	-3.48	
			For >25 To 50, Deduct	-8.71	
			For >50 To 100, Deduct	-13.93	
			For >100, Deduct	-20.89	
32 93 83 00-0046	EA		24" Balled And Burlapped Shrub Planting	76.85	
			For >10 To 25, Deduct	-3.84	
			For >25 To 50, Deduct	-9.61	
			For >50 To 100, Deduct	-15.37	
			For >100, Deduct	-23.06	
32 93 83 00-0047	EA		30" Balled And Burlapped Shrub Planting	76.85	
			For >10 To 25, Deduct	-3.84	
			For >25 To 50, Deduct	-9.61	
			For >50 To 100, Deduct	-15.37	
			For >100, Deduct	-23.06	
32 93 83 00-0048	EA		36" Balled And Burlapped Shrub Planting	84.05	
			For >10 To 25, Deduct	-4.20	
			For >25 To 50, Deduct	-10.51	
			For >50 To 100, Deduct	-16.81	
			For >100, Deduct	-25.22	
32 93 83 00-0049	EA		42" Balled And Burlapped Shrub Planting	88.86	
			For >10 To 25, Deduct	-4.44	
			For >25 To 50, Deduct	-11.11	
			For >50 To 100, Deduct	-17.77	
			For >100, Deduct	-26.66	
32 93 83 00-0050	EA		48" Balled And Burlapped Shrub Planting	96.06	
			For >10 To 25, Deduct	-4.80	
			For >25 To 50, Deduct	-12.01	
			For >50 To 100, Deduct	-19.21	
			For >100, Deduct	-28.82	
32 93 83 00-0051	EA		5' Balled And Burlapped Shrub Planting	144.10	
			For >10 To 25, Deduct	-7.21	
			For >25 To 50, Deduct	-18.01	
			For >50 To 100, Deduct	-28.82	
			For >100, Deduct	-43.23	
32 93 83 00-0052	EA		6' Balled And Burlapped Shrub Planting	204.13	
			For >10 To 25, Deduct	-10.21	
			For >25 To 50, Deduct	-25.52	
			For >50 To 100, Deduct	-40.83	
			For >100, Deduct	-61.24	
32 93 83 00-0053	EA		7' Balled And Burlapped Shrub Planting	271.38	
			For >10 To 25, Deduct	-13.57	
			For >25 To 50, Deduct	-33.92	
			For >50 To 100, Deduct	-54.28	
			For >100, Deduct	-81.41	
32 93 83 00-0054	EA		8' Balled And Burlapped Shrub Planting	307.40	
			For >10 To 25, Deduct	-15.37	
			For >25 To 50, Deduct	-38.43	
			For >50 To 100, Deduct	-61.48	
			For >100, Deduct	-92.22	
32 93 83 00-0055	EA		9' Balled And Burlapped Shrub Planting	331.42	
			For >10 To 25, Deduct	-16.57	
			For >25 To 50, Deduct	-41.43	
			For >50 To 100, Deduct	-66.28	
			For >100, Deduct	-99.43	
32 93 83 00-0056	EA		10' Balled And Burlapped Shrub Planting	360.24	
			For >10 To 25, Deduct	-18.01	
			For >25 To 50, Deduct	-45.03	
			For >50 To 100, Deduct	-72.05	
			For >100, Deduct	-108.07	
32 93 83 00-0057			Planting Groundcover, Vines, Perennials, Annuals And Bulbs (32 93 83) See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0058	EA		2-1/4" Diameter Potted Groundcover And Flower Planting	2.00	
			For >10 To 25, Deduct	-0.10	
			For >25 To 50, Deduct	-0.25	
			For >50 To 100, Deduct	-0.40	
			For >100, Deduct	-0.60	
32 93 83 00-0059	EA		3" Diameter Potted Groundcover And Flower Planting	2.29	
			For >10 To 25, Deduct	-0.11	
			For >25 To 50, Deduct	-0.29	
			For >50 To 100, Deduct	-0.46	
			For >100, Deduct	-0.69	
32 93 83 00-0060	EA		4" Diameter Potted Groundcover And Flower Planting	2.67	
			For >10 To 25, Deduct	-0.13	
			For >25 To 50, Deduct	-0.33	
			For >50 To 100, Deduct	-0.53	
			For >100, Deduct	-0.80	
32 93 83 00-0061	EA		5-1/2" Diameter Potted Groundcover And Flower Planting	3.21	
			For >10 To 25, Deduct	-0.16	
			For >25 To 50, Deduct	-0.40	
			For >50 To 100, Deduct	-0.64	
			For >100, Deduct	-0.96	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0062 EA 6" Diameter Potted Groundcover And Flower Planting.....	4.00	
For>10 To 25, Deduct	-0.20	
For>25 To 50, Deduct	-0.50	
For>50 To 100, Deduct	-0.80	
For>100, Deduct	-1.20	
32 93 83 00-0063 EA 8" Diameter Potted Groundcover And Flower Planting.....	6.00	
For>10 To 25, Deduct	-0.30	
For>25 To 50, Deduct	-0.75	
For>50 To 100, Deduct	-1.20	
For>100, Deduct	-1.80	
32 93 83 00-0064 EA 1 Gallon Container Groundcover And Flower Planting.....	19.21	
For>10 To 25, Deduct	-0.96	
For>25 To 50, Deduct	-2.40	
For>50 To 100, Deduct	-3.84	
For>100, Deduct	-5.76	
32 93 83 00-0065 EA 2 Gallon Container Groundcover And Flower Planting.....	26.42	
For>10 To 25, Deduct	-1.32	
For>25 To 50, Deduct	-3.30	
For>50 To 100, Deduct	-5.28	
For>100, Deduct	-7.93	
32 93 83 00-0066 EA 3 Gallon Container Groundcover And Flower Planting.....	33.63	
For>10 To 25, Deduct	-1.68	
For>25 To 50, Deduct	-4.20	
For>50 To 100, Deduct	-6.73	
For>100, Deduct	-10.09	
32 93 83 00-0067 EA 4 Gallon Container Groundcover And Flower Planting.....	43.23	
For>10 To 25, Deduct	-2.16	
For>25 To 50, Deduct	-5.40	
For>50 To 100, Deduct	-8.65	
For>100, Deduct	-12.97	
32 93 83 00-0068 EA 5 Gallon Container Groundcover And Flower Planting.....	52.84	
For>10 To 25, Deduct	-2.64	
For>25 To 50, Deduct	-6.61	
For>50 To 100, Deduct	-10.57	
For>100, Deduct	-15.85	
32 93 83 00-0069 EA 7 Gallon Container Groundcover And Flower Planting.....	72.04	
For>10 To 25, Deduct	-3.60	
For>25 To 50, Deduct	-9.01	
For>50 To 100, Deduct	-14.41	
For>100, Deduct	-21.61	
32 93 83 00-0070 EA Bulb Planting.....	1.20	
For>10 To 25, Deduct	-0.06	
For>25 To 50, Deduct	-0.15	
For>50 To 100, Deduct	-0.24	
For>100, Deduct	-0.36	
32 93 83 00-0071 EA Flats Of 24 Groundcover And Flower Planting.....	33.62	
For>10 To 25, Deduct	-1.68	
For>25, Deduct	-4.20	
32 93 83 00-0072 EA Flats Of 36 Groundcover And Flower Planting.....	47.69	
For>10 To 25, Deduct	-2.38	
For>25, Deduct	-5.96	
32 93 83 00-0073 EA Flats Of 48 Groundcover And Flower Planting.....	63.49	
For>10 To 25, Deduct	-3.17	
For>25, Deduct	-7.94	

32 93 83 00-0074 Tree Pits (32 93 83)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch. See CSI section 32 91 13 16-0000 for appropriate mulch or decorative topping, 32 91 13 16-0001 for appropriate mulch or decorative topping.

32 93 83 00-0075 EA 2' x 1-1/4' Deep Tree Pit	144.50	
32 93 83 00-0076 EA 2' x 2-1/2' Deep Tree Pit	216.71	
32 93 83 00-0077 EA 2-1/2' x 1-1/2' Deep Tree Pit	279.14	
32 93 83 00-0078 EA 2-1/2' x 3' Deep Tree Pit	418.65	
32 93 83 00-0079 EA 3' x 1-3/4' Deep Tree Pit	432.30	
32 93 83 00-0080 EA 3' x 3-1/2' Deep Tree Pit	645.28	
32 93 83 00-0081 EA 3-1/2' x 1-3/4' Deep Tree Pit	530.58	
32 93 83 00-0082 EA 3-1/2' x 3-1/2' Deep Tree Pit	794.83	
32 93 83 00-0083 EA 4' x 2' Deep Tree Pit.....	634.55	
32 93 83 00-0084 EA 4' x 4' Deep Tree Pit.....	951.32	
32 93 83 00-0085 EA 4-1/2' x 2' Deep Tree Pit	914.92	
32 93 83 00-0086 EA 4-1/2' x 4' Deep Tree Pit	1,374.94	
32 93 83 00-0087 EA 5' x 2-1/4' Deep Tree Pit	1,216.92	
32 93 83 00-0088 EA 5' x 4-1/2' Deep Tree Pit	1,813.37	
32 93 83 00-0089 EA 6' x 2-1/2' Deep Tree Pit	1,725.78	
32 93 83 00-0090 EA 6' x 5' Deep Tree Pit.....	2,585.06	
32 93 83 00-0091 EA 7' x 3' Deep Tree Pit.....	2,908.20	
32 93 83 00-0092 EA 7' x 6' Deep Tree Pit.....	4,384.19	
32 93 83 00-0093 EA 8' x 3-1/4' Deep Tree Pit	4,002.13	
32 93 83 00-0094 EA 8' x 6-1/2' Deep Tree Pit	6,000.80	



Exterior Improvements		32
Planting		32 90
Planting Accessories		32 94

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 94 Planting Accessories (32 90)**32 94 13 Landscape Edging** (32 94)

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002	LF	6" Poly/Vinyl Landscape Edging With Non-Round Top.....	6.27	1.22
		For >2,000 To 5,000 LF, Deduct	-0.38	
		For >5,000 LF, Deduct	-0.76	
32 94 13 00-0003	LF	5" Polyethylene Landscape Edging With Round Top	3.65	1.22
		For >2,000 To 5,000 LF, Deduct	-0.12	
		For >5,000 LF, Deduct	-0.24	
32 94 13 00-0004	LF	5-1/2" Polyethylene Landscape Edging With Round Top	3.71	1.22
		For >2,000 To 5,000 LF, Deduct	-0.13	
		For >5,000 LF, Deduct	-0.25	
32 94 13 00-0005	LF	5" Polyethylene Landscape Edging With Corrugated Sides And Round Top	3.75	1.22
		For >2,000 To 5,000 LF, Deduct	-0.13	
		For >5,000 LF, Deduct	-0.26	
32 94 13 00-0006	LF	1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	10.71	2.93
		For >1,000 LF, Deduct	-1.22	
32 94 13 00-0007	LF	1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	11.72	2.93
		For >1,000 LF, Deduct	-1.47	
32 94 13 00-0008	LF	1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	11.79	2.93
		For >1,000 LF, Deduct	-1.49	
32 94 13 00-0009	LF	3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	13.54	3.02
		For >1,000 LF, Deduct	-1.89	
32 94 13 00-0010	LF	3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	14.78	3.02
		For >1,000 LF, Deduct	-2.20	
32 94 13 00-0011	LF	3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	14.76	3.02
		For >1,000 LF, Deduct	-2.19	
32 94 13 00-0012	LF	1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	12.04	3.12
		For >1,000 LF, Deduct	-1.47	
32 94 13 00-0013	LF	1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging.....	13.42	3.12
		For >1,000 LF, Deduct	-1.82	
32 94 13 00-0014	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	13.56	3.12
		For >1,000 LF, Deduct	-1.85	
32 94 13 00-0015	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	15.27	3.21
		For >1,000 LF, Deduct	-2.24	
32 94 13 00-0016	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	16.65	3.21
		For >1,000 LF, Deduct	-2.58	
32 94 13 00-0017	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	16.77	3.21
		For >1,000 LF, Deduct	-2.61	
32 94 13 00-0018	LF	1/8" x 4" Powder Coated Steel Landscape Edging.....	11.40	3.02
		For >1,000 LF, Deduct	-1.34	
32 94 13 00-0019	LF	3/16" x 4" Powder Coated Steel Landscape Edging	13.43	3.02
		For >1,000 LF, Deduct	-1.85	
32 94 13 00-0020	LF	1/4" x 5" Powder Coated Steel Landscape Edging.....	18.89	3.02
		For >1,000 LF, Deduct	-3.21	
32 94 13 00-0021	LF	1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	8.51	2.93
		For >1,000 LF, Deduct	-0.67	
32 94 13 00-0022	LF	1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)	9.72	2.93
		For >1,000 LF, Deduct	-0.97	
32 94 13 00-0023	LF	1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board)	10.79	2.93
		For >1,000 LF, Deduct	-1.24	
32 94 13 00-0024	LF	2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)	11.01	2.93
		For >1,000 LF, Deduct	-1.29	

32 94 13 00-0025 Concrete Band, Cast In Place (32 94 13)

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

32 94 13 00-0026	LF	6" x 4" Concrete Band	20.87	10.87
		Note: Excludes base course.		
		For Up To 20, Add	12.70	
		For >20 To 50, Add	7.20	
		For >50 To 100, Add	2.75	
		For >500 To 1,000, Deduct	-2.75	
		For >1,000, Deduct	-4.64	
32 94 13 00-0027	LF	6" x 6" Concrete Band	24.82	12.79
		Note: Excludes base course.		
		For Up To 20, Add	15.19	
		For >20 To 50, Add	8.62	
		For >50 To 100, Add	3.29	
		For >500 To 1,000, Deduct	-3.29	
		For >1,000, Deduct	-5.55	
32 94 13 00-0028	LF	8" x 6" Concrete Band	28.56	147.04
		Note: Excludes base course.		
		For Up To 20, Add	17.54	
		For >20 To 50, Add	9.95	
		For >50 To 100, Add	3.79	
		For >500 To 1,000, Deduct	-3.79	
		For >1,000, Deduct	-6.40	

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 13 00-0029 LF 10" x 6" Concrete Band..... Note: Excludes base course.	31.66	159.83
For Up To 20, Add	19.44	
For >20 To 50, Add	11.03	
For >50 To 100, Add	4.20	
For >500 To 1,000, Deduct	-4.20	
For >1,000, Deduct	-7.10	
32 94 13 00-0030 LF 12" x 6" Concrete Band..... Note: Excludes base course.	32.85	16.63
For Up To 20, Add	20.00	
For >20 To 50, Add	11.34	
For >50 To 100, Add	4.33	
For >500 To 1,000, Deduct	-4.33	
For >1,000, Deduct	-7.31	

32 94 16 Landscape Timbers (32 94)

32 94 16 00-0001 LF 1" x 4" Redwood Edging	6.09	2.05
32 94 16 00-0002 LF 2" x 4" Redwood Edging	8.36	3.08
32 94 16 00-0003 LF 4" x 6" Pressure Treated Hardwood.....	10.75	4.10
32 94 16 00-0004 LF 6" x 6" Pressure Treated Hardwood.....	13.85	5.13
32 94 16 00-0005 LF 6" x 8" Pressure Treated Hardwood.....	16.19	6.02
32 94 16 00-0006 LF 1" x 4" Pressure Treated Pine.....	4.54	2.05
32 94 16 00-0007 LF 2" x 4" Pressure Treated Pine.....	6.83	3.08
32 94 16 00-0008 LF 4" x 6" Pressure Treated Pine.....	10.24	3.97
32 94 16 00-0009 LF 6" x 6" Pressure Treated Pine.....	13.77	5.13
32 94 16 00-0010 LF 6" x 8" Pressure Treated Pine.....	16.70	6.02
32 94 16 00-0011 LF 6" x 8" Railroad Ties	17.53	5.80
32 94 16 00-0012 LF 7" x 9" Railroad Ties	21.14	7.28

32 94 23 Plant Protection (32 94)

32 94 23 00-0001 SF Tree Trunk Protection - Hardware Cloth 1/4" Mesh, 23 Gauge.....	2.74	

32 94 43 Tree Grates (32 94)**32 94 43 00-0001 Tree Grates With Frames (32 94 43)****32 94 43 00-0002 Round Cast Iron Tree Grates With Frames (32 94 43 00-0001)**

32 94 43 00-0003 EA 32" Diameter, 100 To 150 Lb., Cast Iron Tree Grate With Frame.....	1,134.99	76.86
32 94 43 00-0004 EA 36" Diameter, 125 To 175 Lb., Cast Iron Tree Grate With Frame.....	1,313.40	76.86
32 94 43 00-0005 EA 42" Diameter, 150 To 200 Lb., Cast Iron Tree Grate With Frame.....	1,587.64	102.48
32 94 43 00-0006 EA 48" Diameter, 200 To 250 Lb., Cast Iron Tree Grate With Frame.....	1,975.95	102.48
32 94 43 00-0007 EA 54" Diameter, 300 To 350 Lb., Cast Iron Tree Grate With Frame.....	2,533.57	128.10
32 94 43 00-0008 EA 60" Diameter, Up To 350 Lb., Cast Iron Tree Grate With Frame	2,658.27	153.71
32 94 43 00-0009 EA 60" Diameter, >350 Lb., Cast Iron Tree Grate With Frame.....	2,928.51	153.71
32 94 43 00-0010 EA 72" Diameter, Up To 550 Lb., Cast Iron Tree Grate With Frame	3,898.81	217.76
32 94 43 00-0011 EA 72" Diameter, >500 To 550 Lb., Cast Iron Tree Grate With Frame.....	4,056.24	217.76
32 94 43 00-0012 EA 72" Diameter, >600 To 650 Lb., Cast Iron Tree Grate With Frame.....	4,187.42	217.76
32 94 43 00-0013 EA 72" Diameter, >650 To 700 Lb., Cast Iron Tree Grate With Frame.....	4,292.37	217.76
32 94 43 00-0014 EA 72" Diameter, >700 Lb., Cast Iron Tree Grate With Frame.....	4,371.08	217.76
32 94 43 00-0015 EA 93" Diameter, 950 To 1,000 Lb., Cast Iron Tree Grate With Frame.....	4,794.27	256.20

32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)

32 94 43 00-0017 EA 30" x 30", 75 To 125 Lb., Cast Iron Tree Grate With Frame	1,045.78	76.86
32 94 43 00-0018 EA 36" x 36", 100 To 150 Lb., Cast Iron Tree Grate With Frame	1,268.79	76.86
32 94 43 00-0019 EA 48" x 48", Up To 200 Lb., Cast Iron Tree Grate With Frame.....	1,882.89	128.10
32 94 43 00-0020 EA 48" x 48", >200 To 250 Lb., Cast Iron Tree Grate With Frame	2,223.98	128.10
32 94 43 00-0021 EA 48" x 48", >250 To 300 Lb., Cast Iron Tree Grate With Frame	2,538.82	128.10
32 94 43 00-0022 EA 48" x 48", >300 To 350 Lb., Cast Iron Tree Grate With Frame	2,827.43	128.10
32 94 43 00-0023 EA 48" x 48", >350 To 400 Lb., Cast Iron Tree Grate With Frame	3,089.80	128.10
32 94 43 00-0024 EA 48" x 48", >400 Lb., Cast Iron Tree Grate With Frame	3,325.93	128.10
32 94 43 00-0025 EA 60" x 60", Up To 400 Lb., Cast Iron Tree Grate With Frame.....	3,192.28	179.34
32 94 43 00-0026 EA 60" x 60", >400 To 450 Lb., Cast Iron Tree Grate With Frame	3,428.41	179.34
32 94 43 00-0027 EA 60" x 60", >450 To 500 Lb., Cast Iron Tree Grate With Frame	3,638.30	179.34
32 94 43 00-0028 EA 60" x 60", >500 To 550 Lb., Cast Iron Tree Grate With Frame	3,821.96	179.34
32 94 43 00-0029 EA 60" x 60", >550 To 600 Lb., Cast Iron Tree Grate With Frame	3,979.39	179.34
32 94 43 00-0030 EA 60" x 60", >600 Lb., Cast Iron Tree Grate With Frame	4,110.57	179.34
32 94 43 00-0031 EA 72" x 72", Up To 550 Lb., Cast Iron Tree Grate With Frame.....	3,898.81	217.76
32 94 43 00-0032 EA 72" x 72", >550 To 600 Lb., Cast Iron Tree Grate With Frame	4,056.24	217.76
32 94 43 00-0033 EA 72" x 72", >600 To 650 Lb., Cast Iron Tree Grate With Frame	4,187.42	217.76
32 94 43 00-0034 EA 72" x 72", >650 To 700 Lb., Cast Iron Tree Grate With Frame	4,292.37	217.76
32 94 43 00-0035 EA 72" x 72", >700 To 750 Lb., Cast Iron Tree Grate With Frame	4,371.08	217.76
32 94 43 00-0036 EA 72" x 72", >750 To 800 Lb., Cast Iron Tree Grate With Frame	4,423.55	217.76
32 94 43 00-0037 EA 72" x 72", >800 To 850 Lb., Cast Iron Tree Grate With Frame	4,449.79	217.76
32 94 43 00-0038 EA 72" x 72", >850 Lb., Cast Iron Tree Grate With Frame	4,476.03	217.76

32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)

32 94 43 00-0040 EA 36" x 48", 200 To 250 Lb., Cast Iron Tree Grate With Frame	1,975.95	102.48



Exterior Improvements		32	32
Planting		32 90	
Planting Accessories		32 94	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0041 EA 36" x 60", 200 To 250 Lb., Cast Iron Tree Grate With Frame	2,015.30	102.48
32 94 43 00-0042 EA 36" x 72", 275 To 325 Lb., Cast Iron Tree Grate With Frame	2,462.73	128.10
32 94 43 00-0043 EA 48" x 72", Up To 350 Lb., Cast Iron Tree Grate With Frame	2,900.89	128.10
32 94 43 00-0044 EA 48" x 72", >350 Lb., Cast Iron Tree Grate With Frame	3,089.80	128.10
32 94 43 00-0045 EA 60" x 84", 700 To 750 Lb., Cast Iron Tree Grate With Frame	4,134.95	217.76

32 94 49 Plant and Tree Accessories (32 94)

32 94 49 00-0001 Tree Guying (32 94 49)

32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)

Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.

32 94 49 00-0003 EA Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap	26.29
32 94 49 00-0004 EA Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap	46.79
32 94 49 00-0005 EA Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap	80.45

32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)

Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.

32 94 49 00-0007 EA Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope	110.51
32 94 49 00-0008 EA Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope	149.06
32 94 49 00-0009 EA Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope	190.88
32 94 49 00-0010 EA Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope	246.67

32 94 49 00-0011 Tree Wrap (32 94 49)

32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree	7.32
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree	12.20
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree	24.25
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree	37.73

32 94 49 00-0016 Tree Guards (32 94 49)

32 94 49 00-0017 EA 3' Preformed Plastic Tree Guard	12.13
32 94 49 00-0018 EA 2' Preformed Plastic Tree Guard	11.12

32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)

Note: When no design available.

32 94 49 00-0020 EA Stake Out Trees Or Shrubs	7.64

32 94 49 00-0021 Root Barriers (32 94 49)

32 94 49 00-0022 EA 12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	13.34
32 94 49 00-0023 EA 18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	19.00
32 94 49 00-0024 EA 24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	22.47
32 94 49 00-0025 EA 36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	42.38
32 94 49 00-0026 EA 48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	58.65

32 96 Transplanting (32 90)

See CSI section 32 94 49 00-0001 for guying.

32 96 33 Shrub Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 33 00-0001 Moving Shrubs On Site, Relocate (32 96 33)

Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.

32 96 33 00-0002 EA Up To 18" Root Ball, Move Shrubs On Site	82.24
For >25 To 50, Deduct	-8.22
For >50, Deduct	-12.34
32 96 33 00-0003 EA >18" To 24" Root Ball, Move Shrubs On Site	111.27
For >25 To 50, Deduct	-11.13
For >50, Deduct	-16.69
32 96 33 00-0004 EA >24" To 30" Root Ball, Move Shrubs On Site	188.67
For >25 To 50, Deduct	-18.87
For >50, Deduct	-28.30
32 96 33 00-0005 EA >30" To 36" Root Ball, Move Shrubs On Site	290.26
For >25 To 50, Deduct	-29.03
For >50, Deduct	-43.54

32 96 43 Tree Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 43 00-0001 Moving Trees On Site, Relocate (32 96 43)

Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0973 for crane lifting equipment, 32 94 49 00-0001 for guying.

32 Exterior Improvements**32 90 Planting****32 96 Transplanting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 96 43 00-0002	EA		Up To 24" Root Ball, Move Trees On Site	324.29	
			For >5 To 10, Deduct	-16.21	
			For >10 To 20, Deduct	-32.43	
			For >20, Deduct	-48.64	
32 96 43 00-0003	EA		>24" To 30" Root Ball, Move Trees On Site	444.74	
			For >5 To 10, Deduct	-22.24	
			For >10 To 20, Deduct	-44.47	
			For >20, Deduct	-66.71	
32 96 43 00-0004	EA		>30" To 36" Root Ball, Move Trees On Site	720.65	
			For >5 To 10, Deduct	-36.03	
			For >10 To 20, Deduct	-72.07	
			For >20, Deduct	-108.10	
32 96 43 00-0005	EA		>36" To 48" Root Ball, Move Trees On Site	1,197.38	
			For >5 To 10, Deduct	-59.87	
			For >10 To 20, Deduct	-119.74	
			For >20, Deduct	-179.61	
32 96 43 00-0006	EA		>48" To 60" Root Ball, Move Trees On Site	1,945.74	
			For >5 To 10, Deduct	-97.29	
			For >10 To 20, Deduct	-194.57	
			For >20, Deduct	-291.86	
32 96 43 00-0007	EA		>60" To 72" Root Ball, Move Trees On Site	2,510.63	
			For >5 To 10, Deduct	-125.53	
			For >10 To 20, Deduct	-251.06	
			For >20, Deduct	-376.59	
32 96 43 00-0008	EA		>72" To 84" Root Ball, Move Trees On Site	3,242.90	
			For >5 To 10, Deduct	-162.15	
			For >10 To 20, Deduct	-324.29	
			For >20, Deduct	-486.44	
32 96 43 00-0009	EA		>84" To 96" Root Ball, Move Trees On Site	3,891.48	
			For >5 To 10, Deduct	-194.57	
			For >10 To 20, Deduct	-389.15	
			For >20, Deduct	-583.72	
32 96 43 00-0010	EA		>96" To 120" Root Ball, Move Trees On Site	4,422.14	
			For >5 To 10, Deduct	-221.11	
			For >10 To 20, Deduct	-442.21	
			For >20, Deduct	-663.32	

END OF SECTION 32



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Water Utilities	33 01 10	

MINOR	CSI	UOM	DESCRIPTION	TOTAL	DIRECT	DEMOLITION
				UNIT COST	UNIT COST	UNIT COST

33 Utilities

Note: Buried plastic pipe and conduit includes detectable tracer wire

33 01 Operation and Maintenance of Utilities ⁽³³⁾

33 01 10 Operation and Maintenance of Water Utilities ^(33 01)

33 01 10 54 Cleaning of Water Utility Piping ^(33 01 10)

See CSI section 33 01 30 41-0012 for cleaning of water lines.

33 01 10 58 Disinfection of Water Utility Piping Systems ^(33 01 10)

33 01 10 58-0001 Water Main Disinfection/Sterilization ^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Set-up And Removal Of Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	1,137.92
33 01 10 58-0003	EA	Move And Set-up At Different Access/Location For Water Main Disinfection/Sterilization, Gas Chlorination Method	568.97
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.42
		For >250 To 500, Deduct	-0.02
		For >500 To 1,000, Deduct	-0.04
		For >1,000 To 2,000, Deduct	-0.06
		For >2,000 To 5,000, Deduct	-0.08
		For >5,000, Deduct	-0.11
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization	0.66
		For >250 To 500, Deduct	-0.03
		For >500 To 1,000, Deduct	-0.07
		For >1,000 To 2,000, Deduct	-0.10
		For >2,000 To 5,000, Deduct	-0.13
		For >5,000, Deduct	-0.17
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization	0.85
		For >250 To 500, Deduct	-0.04
		For >500 To 1,000, Deduct	-0.09
		For >1,000 To 2,000, Deduct	-0.13
		For >2,000 To 5,000, Deduct	-0.17
		For >5,000, Deduct	-0.21
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization	1.00
		For >250 To 500, Deduct	-0.05
		For >500 To 1,000, Deduct	-0.10
		For >1,000 To 2,000, Deduct	-0.15
		For >2,000 To 5,000, Deduct	-0.20
		For >5,000, Deduct	-0.25
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization	1.32
		For >250 To 500, Deduct	-0.07
		For >500 To 1,000, Deduct	-0.13
		For >1,000 To 2,000, Deduct	-0.20
		For >2,000 To 5,000, Deduct	-0.26
		For >5,000, Deduct	-0.33
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.48
		For >250 To 500, Deduct	-0.07
		For >500 To 1,000, Deduct	-0.15
		For >1,000 To 2,000, Deduct	-0.22
		For >2,000 To 5,000, Deduct	-0.30
		For >5,000, Deduct	-0.37
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.71
		For >250 To 500, Deduct	-0.09
		For >500 To 1,000, Deduct	-0.17
		For >1,000 To 2,000, Deduct	-0.26
		For >2,000 To 5,000, Deduct	-0.34
		For >5,000, Deduct	-0.43
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	2.01
		For >250 To 500, Deduct	-0.10
		For >500 To 1,000, Deduct	-0.20
		For >1,000 To 2,000, Deduct	-0.30
		For >2,000 To 5,000, Deduct	-0.40
		For >5,000, Deduct	-0.50
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.59
		For >250 To 500, Deduct	-0.13
		For >500 To 1,000, Deduct	-0.26
		For >1,000 To 2,000, Deduct	-0.39
		For >2,000 To 5,000, Deduct	-0.52
		For >5,000, Deduct	-0.65
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.79
		For >250 To 500, Deduct	-0.19
		For >500 To 1,000, Deduct	-0.38
		For >1,000 To 2,000, Deduct	-0.57
		For >2,000 To 5,000, Deduct	-0.76
		For >5,000, Deduct	-0.95
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization	5.25
		For >250 To 500, Deduct	-0.26
		For >500 To 1,000, Deduct	-0.53
		For >1,000 To 2,000, Deduct	-0.79
		For >2,000 To 5,000, Deduct	-1.05
		For >5,000, Deduct	-1.31

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 10 71 Relining Water Utilities Pipelines (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001 Relining Underground Water Pipelines (33 01 10 71)

Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hour response for owners' backups.

33 01 10 71-0002 Set-Up And Reinsertion For Relining Underground Water Pipelines (33 01 10 71-0001)

33 01 10 71-0003	EA	Initial Set-up And Final Equipment Removal For Relining Underground Water Pipelines.....	6,097.28
33 01 10 71-0004	EA	Move And Set-up At Different Access/Location	2,438.91

33 01 10 71-0005 Lining Pipe With Cement (33 01 10 71-0001)

33 01 10 71-0006	LF	Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	71.23
		For 3/16" Thickness, Add	1.29
		For 1/4" Thickness, Add	2.58
33 01 10 71-0007	LF	>500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	63.48
		For 3/16" Thickness, Add	1.29
		For 1/4" Thickness, Add	2.58
33 01 10 71-0008	LF	>1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	53.09
		For 3/16" Thickness, Add	1.29
		For 1/4" Thickness, Add	2.58
33 01 10 71-0009	LF	>5,000', 4" Pipe, 1/8" Pipe Lining With Cement	40.05
		For 3/16" Thickness, Add	1.29
		For 1/4" Thickness, Add	2.58
33 01 10 71-0010	LF	Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	74.28
		For 3/16" Thickness, Add	1.93
		For 1/4" Thickness, Add	3.85
33 01 10 71-0011	LF	>500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	66.23
		For 3/16" Thickness, Add	1.93
		For 1/4" Thickness, Add	3.85
33 01 10 71-0012	LF	>1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	55.48
		For 3/16" Thickness, Add	1.93
		For 1/4" Thickness, Add	3.85
33 01 10 71-0013	LF	>5,000', 6" Pipe, 1/8" Pipe Lining With Cement	42.27
		For 3/16" Thickness, Add	1.93
		For 1/4" Thickness, Add	3.85
33 01 10 71-0014	LF	Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	77.22
		For 3/16" Thickness, Add	2.57
		For 1/4" Thickness, Add	5.13
33 01 10 71-0015	LF	>500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	68.99
		For 3/16" Thickness, Add	2.57
		For 1/4" Thickness, Add	5.13
33 01 10 71-0016	LF	>1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	57.89
		For 3/16" Thickness, Add	2.57
		For 1/4" Thickness, Add	5.13
33 01 10 71-0017	LF	>5,000', 8" Pipe, 1/8" Pipe Lining With Cement	44.49
		For 3/16" Thickness, Add	2.57
		For 1/4" Thickness, Add	5.13
33 01 10 71-0018	LF	Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	79.52
		For 3/16" Thickness, Add	3.22
		For 1/4" Thickness, Add	6.43
33 01 10 71-0019	LF	>500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	71.17
		For 3/16" Thickness, Add	3.22
		For 1/4" Thickness, Add	6.43
33 01 10 71-0020	LF	>1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	59.90
		For 3/16" Thickness, Add	3.22
		For 1/4" Thickness, Add	6.43
33 01 10 71-0021	LF	>5,000', 10" Pipe, 1/8" Pipe Lining With Cement	46.75
		For 3/16" Thickness, Add	3.22
		For 1/4" Thickness, Add	6.43
33 01 10 71-0022	LF	Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	86.08
		For 3/16" Thickness, Add	3.86
		For 1/4" Thickness, Add	7.71
33 01 10 71-0023	LF	>500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	77.20
		For 3/16" Thickness, Add	3.86
		For 1/4" Thickness, Add	7.71
33 01 10 71-0024	LF	>1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	65.22
		For 3/16" Thickness, Add	3.86
		For 1/4" Thickness, Add	7.71
33 01 10 71-0025	LF	>5,000', 12" Pipe, 1/8" Pipe Lining With Cement	50.99
		For 3/16" Thickness, Add	3.86
		For 1/4" Thickness, Add	7.71
33 01 10 71-0026	LF	Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	93.61
		For 1/4" Thickness, Add	4.29
		For 5/16" Thickness, Add	8.57
33 01 10 71-0027	LF	>500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	84.39
		For 1/4" Thickness, Add	4.29
		For 5/16" Thickness, Add	8.57
33 01 10 71-0028	LF	>1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	71.90
		For 1/4" Thickness, Add	4.29
		For 5/16" Thickness, Add	8.57
33 01 10 71-0029	LF	>5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	58.27
		For 1/4" Thickness, Add	4.29
		For 5/16" Thickness, Add	8.57



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Water Utilities		33 01 10	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030	LF	Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	98.52	
		For 1/4" Thickness, Add	5.14	
		For 5/16" Thickness, Add	10.27	
33 01 10 71-0031	LF	>500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	89.03	
		For 1/4" Thickness, Add	5.14	
		For 5/16" Thickness, Add	10.27	
33 01 10 71-0032	LF	>1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	76.12	
		For 1/4" Thickness, Add	5.14	
		For 5/16" Thickness, Add	10.27	
33 01 10 71-0033	LF	>5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	63.19	
		For 1/4" Thickness, Add	5.14	
		For 5/16" Thickness, Add	10.27	
33 01 10 71-0034	LF	Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	104.55	
		For 1/4" Thickness, Add	6.00	
		For 5/16" Thickness, Add	11.99	
33 01 10 71-0035	LF	>500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	94.72	
		For 1/4" Thickness, Add	6.00	
		For 5/16" Thickness, Add	11.99	
33 01 10 71-0036	LF	>1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	81.19	
		For 1/4" Thickness, Add	6.00	
		For 5/16" Thickness, Add	11.99	
33 01 10 71-0037	LF	>5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	69.09	
		For 1/4" Thickness, Add	6.00	
		For 5/16" Thickness, Add	11.99	
33 01 10 71-0038	LF	Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	110.68	
		For 1/4" Thickness, Add	6.85	
		For 5/16" Thickness, Add	13.71	
33 01 10 71-0039	LF	>500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	100.44	
		For 1/4" Thickness, Add	6.85	
		For 5/16" Thickness, Add	13.71	
33 01 10 71-0040	LF	>1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	86.48	
		For 1/4" Thickness, Add	6.85	
		For 5/16" Thickness, Add	13.71	
33 01 10 71-0041	LF	>5,000', 24" Pipe, 3/16" Pipe Lining With Cement	75.22	
		For 1/4" Thickness, Add	6.85	
		For 5/16" Thickness, Add	13.71	
33 01 10 71-0042	LF	Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	119.24	
		For 1/4" Thickness, Add	8.56	
		For 5/16" Thickness, Add	17.13	
33 01 10 71-0043	LF	>500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	108.41	
		For 1/4" Thickness, Add	8.56	
		For 5/16" Thickness, Add	17.13	
33 01 10 71-0044	LF	>1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	93.63	
		For 1/4" Thickness, Add	8.56	
		For 5/16" Thickness, Add	17.13	
33 01 10 71-0045	LF	>5,000', 30" Pipe, 3/16" Pipe Lining With Cement	82.24	
		For 1/4" Thickness, Add	8.56	
		For 5/16" Thickness, Add	17.13	
33 01 10 71-0046	LF	Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	127.72	
		For 1/4" Thickness, Add	10.28	
		For 5/16" Thickness, Add	20.57	
33 01 10 71-0047	LF	500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	116.42	
		For 1/4" Thickness, Add	10.28	
		For 5/16" Thickness, Add	20.57	
33 01 10 71-0048	LF	>1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	100.80	
		For 1/4" Thickness, Add	10.28	
		For 5/16" Thickness, Add	20.57	
33 01 10 71-0049	LF	>5,000', 36" Pipe, 3/16" Pipe Lining With Cement	89.31	
		For 1/4" Thickness, Add	10.28	
		For 5/16" Thickness, Add	20.57	
33 01 10 71-0050	LF	Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	159.84	
		For 3/8" Thickness, Add	26.98	
		For 7/16" Thickness, Add	40.47	
33 01 10 71-0051	LF	>500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	147.52	
		For 3/8" Thickness, Add	26.98	
		For 7/16" Thickness, Add	40.47	
33 01 10 71-0052	LF	>1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	130.56	
		For 3/8" Thickness, Add	26.98	
		For 7/16" Thickness, Add	40.47	
33 01 10 71-0053	LF	>5,000', 42" Pipe, 1/4" Pipe Lining With Cement.....	118.70	
		For 3/8" Thickness, Add	26.98	
		For 7/16" Thickness, Add	40.47	
33 01 10 71-0054	LF	Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	176.45	
		For 3/8" Thickness, Add	30.84	
		For 7/16" Thickness, Add	46.25	
33 01 10 71-0055	LF	>500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	163.27	
		For 3/8" Thickness, Add	30.84	
		For 7/16" Thickness, Add	46.25	
33 01 10 71-0056	LF	>1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	145.02	
		For 3/8" Thickness, Add	30.84	
		For 7/16" Thickness, Add	46.25	
33 01 10 71-0057	LF	>5,000', 48" Pipe, 1/4" Pipe Lining With Cement.....	132.93	
		For 3/8" Thickness, Add	30.84	
		For 7/16" Thickness, Add	46.25	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement	186.28	
For 3/8" Thickness, Add	34.69	
For 7/16" Thickness, Add	52.03	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	172.82	
For 3/8" Thickness, Add	34.69	
For 7/16" Thickness, Add	52.03	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	154.15	
For 3/8" Thickness, Add	34.69	
For 7/16" Thickness, Add	52.03	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement	142.53	
For 3/8" Thickness, Add	34.69	
For 7/16" Thickness, Add	52.03	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement	196.14	
For 3/8" Thickness, Add	38.55	
For 7/16" Thickness, Add	57.83	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	182.45	
For 3/8" Thickness, Add	38.55	
For 7/16" Thickness, Add	57.83	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	163.42	
For 3/8" Thickness, Add	38.55	
For 7/16" Thickness, Add	57.83	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement	152.15	
For 3/8" Thickness, Add	38.55	
For 7/16" Thickness, Add	57.83	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement	206.34	
For 3/8" Thickness, Add	42.41	
For 7/16" Thickness, Add	63.61	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	192.36	
For 3/8" Thickness, Add	42.41	
For 7/16" Thickness, Add	63.61	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	173.02	
For 3/8" Thickness, Add	42.41	
For 7/16" Thickness, Add	63.61	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement	162.59	
For 3/8" Thickness, Add	42.41	
For 7/16" Thickness, Add	63.61	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement	217.01	
For 3/8" Thickness, Add	46.26	
For 7/16" Thickness, Add	69.38	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	202.78	
For 3/8" Thickness, Add	46.26	
For 7/16" Thickness, Add	69.38	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	182.98	
For 3/8" Thickness, Add	46.26	
For 7/16" Thickness, Add	69.38	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement	173.14	
For 3/8" Thickness, Add	46.26	
For 7/16" Thickness, Add	69.38	

33 01 20 Operation and Maintenance of Wells (33 01)**33 01 20 00-0001 Pull Submersible Well Pumps For Repair (33 01 20)**

Note: Includes cleaning.

33 01 20 00-0002 EA Up To 100' Depth, Pull Submersible Well Pumps For Repair	99.78
Note: Includes reinstallation after repair.	
33 01 20 00-0003 EA >100 To 200' Depth, Pull Submersible Well Pumps For Repair	133.04
Note: Includes reinstallation after repair.	
33 01 20 00-0004 EA >200 To 300' Depth, Pull Submersible Well Pumps For Repair	172.95
Note: Includes reinstallation after repair.	
33 01 20 00-0005 EA >300 To 400' Depth, Pull Submersible Well Pumps For Repair	226.17
Note: Includes reinstallation after repair.	
33 01 20 00-0006 EA >400 To 500' Depth, Pull Submersible Well Pumps For Repair	279.38
Note: Includes reinstallation after repair.	
33 01 20 00-0007 EA >500 To 600' Depth, Pull Submersible Well Pumps For Repair	319.29
Note: Includes reinstallation after repair.	

33 01 30 Operation and Maintenance of Sewer Utilities (33 01)**33 01 30 11 Television Inspection Of Pipelines (33 01 30)**

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)**33 01 30 11-0002 Set-up For Video Camera (33 01 30 11-0001)**

Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1" to 12" diameter pipes for distances up to 300 feet. Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).

33 01 30 11-0003 EA Initial Set-up And Final Equipment Removal For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	1,059.09
33 01 30 11-0004 EA Initial Set-up And Final Equipment Removal For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert	2,118.18
33 01 30 11-0005 EA Initial Set-up And Final Equipment Removal For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	3,177.27



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0006	EA	Move And Set-up At Different Access/Location For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert.....	529.54	
33 01 30 11-0007	EA	Move And Set-up At Different Access/Location For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert.....	1,059.09	
33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)				
Note: For pipe interior and culverts.				
33 01 30 11-0009	LF	4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.68	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-0.27	
For >1,000 To 5,000, Deduct			-0.67	
For >5,000, Deduct			-0.94	
33 01 30 11-0010	LF	>6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.58	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-0.36	
For >1,000 To 5,000, Deduct			-0.90	
For >5,000, Deduct			-1.25	
33 01 30 11-0011	LF	>12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase.....	4.47	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-0.45	
For >1,000 To 5,000, Deduct			-1.12	
For >5,000, Deduct			-1.56	
33 01 30 11-0012	LF	>21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	5.97	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-0.60	
For >1,000 To 5,000, Deduct			-1.49	
For >5,000, Deduct			-2.09	
33 01 30 11-0013	LF	>30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	8.39	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-0.84	
For >1,000 To 5,000, Deduct			-2.10	
For >5,000, Deduct			-2.94	
33 01 30 11-0014	LF	>42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	11.19	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-1.12	
For >1,000 To 5,000, Deduct			-2.80	
For >5,000, Deduct			-3.92	
33 01 30 11-0015	LF	>60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	15.80	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-1.58	
For >1,000 To 5,000, Deduct			-3.95	
For >5,000, Deduct			-5.53	
33 01 30 11-0016	LF	>72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	22.38	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-2.24	
For >1,000 To 5,000, Deduct			-5.60	
For >5,000, Deduct			-7.83	
33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)				
33 01 30 11-0018	LF	4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase	3.97	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-0.40	
For >1,000 To 5,000, Deduct			-0.99	
For >5,000, Deduct			-1.39	
33 01 30 11-0019	LF	>6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase	5.29	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-0.53	
For >1,000 To 5,000, Deduct			-1.32	
For >5,000, Deduct			-1.85	
33 01 30 11-0020	LF	>12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase	6.62	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-0.66	
For >1,000 To 5,000, Deduct			-1.66	
For >5,000, Deduct			-2.32	
33 01 30 11-0021	LF	>21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase	8.83	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-0.88	
For >1,000 To 5,000, Deduct			-2.21	
For >5,000, Deduct			-3.09	
33 01 30 11-0022	LF	>30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase	12.41	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-1.24	
For >1,000 To 5,000, Deduct			-3.10	
For >5,000, Deduct			-4.34	
33 01 30 11-0023	LF	>42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase	16.55	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-1.66	
For >1,000 To 5,000, Deduct			-4.14	
For >5,000, Deduct			-5.79	
33 01 30 11-0024	LF	>60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase	23.36	
Note: CCTV inspection of pipe interior.				
For >500 To 1,000, Deduct			-2.34	
For >1,000 To 5,000, Deduct			-5.84	
For >5,000, Deduct			-8.18	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	33.10	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-3.31	
For >1,000 To 5,000, Deduct	-8.28	
For >5,000, Deduct	-11.59	
33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase	2.84	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.28	
For >1,000 To 5,000, Deduct	-0.71	
For >5,000, Deduct	-0.99	
33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase	3.78	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.38	
For >1,000 To 5,000, Deduct	-0.95	
For >5,000, Deduct	-1.32	
33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase	4.73	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.47	
For >1,000 To 5,000, Deduct	-1.18	
For >5,000, Deduct	-1.66	
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase	6.31	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.63	
For >1,000 To 5,000, Deduct	-1.58	
For >5,000, Deduct	-2.21	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase	8.87	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.89	
For >1,000 To 5,000, Deduct	-2.22	
For >5,000, Deduct	-3.10	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase	11.82	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.18	
For >1,000 To 5,000, Deduct	-2.96	
For >5,000, Deduct	-4.14	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase	16.69	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.67	
For >1,000 To 5,000, Deduct	-4.17	
For >5,000, Deduct	-5.84	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase	23.64	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.36	
For >1,000 To 5,000, Deduct	-5.91	
For >5,000, Deduct	-8.27	
33 01 30 41 Cleaning of Sewers (33 01 30)		
33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)		
Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001)		
Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Set-up And Reinsertion For Hydro Jet (33 01 30 41-0002)		
Note: Includes mobilization delivery, set-up, cleanup after use and return.		
33 01 30 41-0004 EA Initial Set-up And Final Equipment Removal For Up To 8" Jet Cleaning	1,561.23	
33 01 30 41-0005 EA Initial Set-up And Final Equipment Removal For >8" To 12" Jet Cleaning	2,341.84	
33 01 30 41-0006 EA Initial Set-up And Final Equipment Removal For >12" To 30" Jet Cleaning	3,122.47	
33 01 30 41-0007 EA Initial Set-up And Final Equipment Removal For >30" Jet Cleaning	4,163.28	
33 01 30 41-0008 EA Move And Set-up At Different Access/Location For Up To 8" Jet Cleaning	390.31	
33 01 30 41-0009 EA Move And Set-up At Different Access/Location For >8" To 12" Jet Cleaning	585.46	
33 01 30 41-0010 EA Move And Set-up At Different Access/Location For >12" To 30" Jet Cleaning	780.62	
33 01 30 41-0011 EA Move And Set-up At Different Access/Location For >30" Jet Cleaning	975.77	
33 01 30 41-0012 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)		
33 01 30 41-0013 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.20	
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.42	
For >1,000 To 2,000, Deduct	-0.63	
For >2,000 To 5,000, Deduct	-0.84	
For >5,000, Deduct	-1.05	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.15	
33 01 30 41-0014 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.82	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.48	
For >1,000 To 2,000, Deduct	-0.72	
For >2,000 To 5,000, Deduct	-0.96	
For >5,000, Deduct	-1.21	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.62	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0015	LF	8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.66	
		For >250 To 500, Deduct	-0.28	
		For >500 To 1,000, Deduct	-0.57	
		For >1,000 To 2,000, Deduct	-0.85	
		For >2,000 To 5,000, Deduct	-1.13	
		For >5,000, Deduct	-1.42	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.25	
33 01 30 41-0016	LF	10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	7.00	
		For >250 To 500, Deduct	-0.35	
		For >500 To 1,000, Deduct	-0.70	
		For >1,000 To 2,000, Deduct	-1.05	
		For >2,000 To 5,000, Deduct	-1.40	
		For >5,000, Deduct	-1.75	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.25	
33 01 30 41-0017	LF	12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	7.93	
		For >250 To 500, Deduct	-0.40	
		For >500 To 1,000, Deduct	-0.79	
		For >1,000 To 2,000, Deduct	-1.19	
		For >2,000 To 5,000, Deduct	-1.59	
		For >5,000, Deduct	-1.98	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.95	
33 01 30 41-0018	LF	>12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	9.16	
		For >250 To 500, Deduct	-0.46	
		For >500 To 1,000, Deduct	-0.92	
		For >1,000 To 2,000, Deduct	-1.37	
		For >2,000 To 5,000, Deduct	-1.83	
		For >5,000, Deduct	-2.29	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	6.87	
33 01 30 41-0019	LF	>16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	11.02	
		For >250 To 500, Deduct	-0.55	
		For >500 To 1,000, Deduct	-1.10	
		For >1,000 To 2,000, Deduct	-1.65	
		For >2,000 To 5,000, Deduct	-2.20	
		For >5,000, Deduct	-2.76	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	8.27	
33 01 30 41-0020	LF	>24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	12.51	
		For >250 To 500, Deduct	-0.63	
		For >500 To 1,000, Deduct	-1.25	
		For >1,000 To 2,000, Deduct	-1.88	
		For >2,000 To 5,000, Deduct	-2.50	
		For >5,000, Deduct	-3.13	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	9.38	
33 01 30 41-0021	LF	>30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	14.78	
		For >250 To 500, Deduct	-0.74	
		For >500 To 1,000, Deduct	-1.48	
		For >1,000 To 2,000, Deduct	-2.22	
		For >2,000 To 5,000, Deduct	-2.96	
		For >5,000, Deduct	-3.70	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	11.09	
33 01 30 41-0022	LF	>42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	18.59	
		For >250 To 500, Deduct	-0.93	
		For >500 To 1,000, Deduct	-1.86	
		For >1,000 To 2,000, Deduct	-2.79	
		For >2,000 To 5,000, Deduct	-3.72	
		For >5,000, Deduct	-4.65	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	13.94	
33 01 30 41-0023	LF	>60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	21.69	
		For >250 To 500, Deduct	-1.08	
		For >500 To 1,000, Deduct	-2.17	
		For >1,000 To 2,000, Deduct	-3.25	
		For >2,000 To 5,000, Deduct	-4.34	
		For >5,000, Deduct	-5.42	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	16.27	
33 01 30 41-0024		Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
		Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0025	LF	12" To 16" Diameter Pipe Line Flushing	1.55	
		For >250 To 500, Deduct	-0.08	
		For >500 To 1,000, Deduct	-0.16	
		For >1,000 To 2,000, Deduct	-0.23	
		For >2,000 To 5,000, Deduct	-0.31	
		For >5,000, Deduct	-0.39	
33 01 30 41-0026	LF	>16" To 24" Diameter Pipe Line Flushing	1.78	
		For >250 To 500, Deduct	-0.09	
		For >500 To 1,000, Deduct	-0.18	
		For >1,000 To 2,000, Deduct	-0.27	
		For >2,000 To 5,000, Deduct	-0.36	
		For >5,000, Deduct	-0.45	
33 01 30 41-0027	LF	>24" To 30" Diameter Pipe Line Flushing	2.09	
		For >250 To 500, Deduct	-0.10	
		For >500 To 1,000, Deduct	-0.21	
		For >1,000 To 2,000, Deduct	-0.31	
		For >2,000 To 5,000, Deduct	-0.42	
		For >5,000, Deduct	-0.52	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0028 LF >30" To 42" Diameter Pipe Line Flushing	2.40	
For>250 To 500, Deduct	-0.12	
For>500 To 1,000, Deduct	-0.24	
For>1,000 To 2,000, Deduct	-0.36	
For>2,000 To 5,000, Deduct	-0.48	
For>5,000, Deduct	-0.60	
33 01 30 41-0029 LF >42" To 60" Diameter Pipe Line Flushing	3.21	
For>250 To 500, Deduct	-0.16	
For>500 To 1,000, Deduct	-0.32	
For>1,000 To 2,000, Deduct	-0.48	
For>2,000 To 5,000, Deduct	-0.64	
For>5,000, Deduct	-0.80	
33 01 30 41-0030 Hydro Jet Cleaning Of Culverts (33 01 30 41-0002)		
33 01 30 41-0031 LF Jet Cleaning Of Culvert, 0-250 LF	19.42	
For>250 To 500, Deduct	-0.97	
For>500 To 1,000, Deduct	-1.94	
For>1,000 To 2,000, Deduct	-2.91	
For>2,000 To 5,000, Deduct	-3.88	
For>5,000, Deduct	-4.86	
33 01 30 41-0032 Pipe Line Cleaning, Mechanical Method (33 01 30 41-0001)		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0033 EA Initial Set-up And Final Equipment Removal For Mechanical Cleaning	1,365.51	
33 01 30 41-0034 EA Move And Set-up At Different Access/Location For Mechanical Cleaning	455.17	
33 01 30 41-0035 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	7.91	
For>250 To 500, Deduct	-0.38	
For>500 To 1,000, Deduct	-0.76	
For>1,000 To 2,000, Deduct	-1.14	
For>2,000 To 5,000, Deduct	-1.52	
For>5,000, Deduct	-1.90	
33 01 30 41-0036 LF 6" Diameter Pipe Line Cleaning, Mechanical Method	10.39	
For>250 To 500, Deduct	-0.49	
For>500 To 1,000, Deduct	-0.98	
For>1,000 To 2,000, Deduct	-1.46	
For>2,000 To 5,000, Deduct	-1.95	
For>5,000, Deduct	-2.44	
33 01 30 41-0037 LF 8" Diameter Pipe Line Cleaning, Mechanical Method	12.17	
For>250 To 500, Deduct	-0.57	
For>500 To 1,000, Deduct	-1.14	
For>1,000 To 2,000, Deduct	-1.71	
For>2,000 To 5,000, Deduct	-2.28	
For>5,000, Deduct	-2.85	
33 01 30 41-0038 LF 10" Diameter Pipe Line Cleaning, Mechanical Method	14.08	
For>250 To 500, Deduct	-0.66	
For>500 To 1,000, Deduct	-1.31	
For>1,000 To 2,000, Deduct	-1.97	
For>2,000 To 5,000, Deduct	-2.63	
For>5,000, Deduct	-3.28	
33 01 30 41-0039 LF 12" Diameter Pipe Line Cleaning, Mechanical Method	15.33	
For>250 To 500, Deduct	-0.71	
For>500 To 1,000, Deduct	-1.42	
For>1,000 To 2,000, Deduct	-2.13	
For>2,000 To 5,000, Deduct	-2.84	
For>5,000, Deduct	-3.56	
33 01 30 41-0040 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method	17.68	
For>250 To 500, Deduct	-0.81	
For>500 To 1,000, Deduct	-1.63	
For>1,000 To 2,000, Deduct	-2.44	
For>2,000 To 5,000, Deduct	-3.25	
For>5,000, Deduct	-4.06	
33 01 30 41-0041 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method	22.31	
For>250 To 500, Deduct	-1.00	
For>500 To 1,000, Deduct	-2.01	
For>1,000 To 2,000, Deduct	-3.01	
For>2,000 To 5,000, Deduct	-4.02	
For>5,000, Deduct	-5.02	
33 01 30 41-0042 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method	25.57	
For>250 To 500, Deduct	-1.12	
For>500 To 1,000, Deduct	-2.24	
For>1,000 To 2,000, Deduct	-3.36	
For>2,000 To 5,000, Deduct	-4.48	
For>5,000, Deduct	-5.60	
33 01 30 41-0043 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method	29.73	
For>250 To 500, Deduct	-1.29	
For>500 To 1,000, Deduct	-2.58	
For>1,000 To 2,000, Deduct	-3.86	
For>2,000 To 5,000, Deduct	-5.15	
For>5,000, Deduct	-6.44	



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Sewer Utilities		33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0044 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method.....	38.91	
For >250 To 500, Deduct	-1.71	
For >500 To 1,000, Deduct	-3.41	
For >1,000 To 2,000, Deduct	-5.12	
For >2,000 To 5,000, Deduct	-6.83	
For >5,000, Deduct	-8.54	
33 01 30 41-0045 LF >60" Diameter Pipe Line Cleaning, Mechanical Method.....	44.29	
For >250 To 500, Deduct	-1.90	
For >500 To 1,000, Deduct	-3.79	
For >1,000 To 2,000, Deduct	-5.69	
For >2,000 To 5,000, Deduct	-7.59	
For >5,000, Deduct	-9.48	
33 01 30 41-0046 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)		
33 01 30 41-0047 EA Initial Set-up And Final Equipment Removal For Auguring.....	1,365.51	
33 01 30 41-0048 EA Move And Set-up At Different Location For Auguring.....	455.17	
33 01 30 41-0049 LF Up To 4" Diameter Pipe Line Auguring/Rod Out.....	4.55	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.46	
For >1,000 To 2,000, Deduct	-0.68	
For >2,000 To 5,000, Deduct	-0.91	
For >5,000, Deduct	-1.14	
33 01 30 41-0050 LF 6" Diameter Pipe Line Auguring/Rod Out.....	5.89	
For >250 To 500, Deduct	-0.29	
For >500 To 1,000, Deduct	-0.59	
For >1,000 To 2,000, Deduct	-0.88	
For >2,000 To 5,000, Deduct	-1.18	
For >5,000, Deduct	-1.47	
33 01 30 41-0051 LF 8" Diameter Pipe Line Auguring/Rod Out.....	6.83	
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.68	
For >1,000 To 2,000, Deduct	-1.02	
For >2,000 To 5,000, Deduct	-1.37	
For >5,000, Deduct	-1.71	
33 01 30 41-0052 LF 10" Diameter Pipe Line Auguring/Rod Out.....	7.94	
For >250 To 500, Deduct	-0.40	
For >500 To 1,000, Deduct	-0.79	
For >1,000 To 2,000, Deduct	-1.19	
For >2,000 To 5,000, Deduct	-1.59	
For >5,000, Deduct	-1.99	
33 01 30 41-0053 LF 12" Diameter Pipe Line Auguring/Rod Out.....	8.53	
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.85	
For >1,000 To 2,000, Deduct	-1.28	
For >2,000 To 5,000, Deduct	-1.71	
For >5,000, Deduct	-2.13	
33 01 30 41-0054 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out.....	9.75	
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-0.98	
For >1,000 To 2,000, Deduct	-1.46	
For >2,000 To 5,000, Deduct	-1.95	
For >5,000, Deduct	-2.44	
33 01 30 41-0055 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....	11.98	
For >250 To 500, Deduct	-0.60	
For >500 To 1,000, Deduct	-1.20	
For >1,000 To 2,000, Deduct	-1.80	
For >2,000 To 5,000, Deduct	-2.40	
For >5,000, Deduct	-3.00	
33 01 30 41-0056 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....	13.39	
For >250 To 500, Deduct	-0.67	
For >500 To 1,000, Deduct	-1.34	
For >1,000 To 2,000, Deduct	-2.01	
For >2,000 To 5,000, Deduct	-2.68	
For >5,000, Deduct	-3.35	
33 01 30 41-0057 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....	15.52	
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.55	
For >1,000 To 2,000, Deduct	-2.33	
For >2,000 To 5,000, Deduct	-3.10	
For >5,000, Deduct	-3.88	
33 01 30 41-0058 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out.....	21.33	
For >250 To 500, Deduct	-1.07	
For >500 To 1,000, Deduct	-2.13	
For >1,000 To 2,000, Deduct	-3.20	
For >2,000 To 5,000, Deduct	-4.27	
For >5,000, Deduct	-5.33	
33 01 30 41-0059 LF >60" Diameter Pipe Line Auguring/Rod Out.....	22.76	
For >250 To 500, Deduct	-1.14	
For >500 To 1,000, Deduct	-2.28	
For >1,000 To 2,000, Deduct	-3.41	
For >2,000 To 5,000, Deduct	-4.55	
For >5,000, Deduct	-5.69	

33 01 30 42 Cleaning of Manholes (33 01 30)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 42-0001	Structure Cleaning And Flushing (33 01 30 42)	
	Note: Includes flushing. Owner provided water.	
33 01 30 42-0002	Rod Out Structures And Other Hand Operations (33 01 30 42-0001)	
33 01 30 42-0003	EA Rod Out Waste Water Drain	59.28
33 01 30 42-0004	EA Rod Out Sewer Catch Basin	118.57
33 01 30 42-0005	EA Up To 6" Diameter Pipe, Rod Out Blockage	23.71
33 01 30 42-0006	EA 8" Diameter Pipe, Rod Out Blockage	26.09
33 01 30 42-0007	EA 10" Diameter Pipe, Rod Out Blockage	29.64
33 01 30 42-0008	EA 12" Diameter Pipe, Rod Out Blockage	34.39
33 01 30 42-0009	EA >12" To 16" Diameter Pipe, Rod Out Blockage	40.32
33 01 30 42-0010	EA >16" To 24" Diameter Pipe, Rod Out Blockage	47.42
33 01 30 42-0011	EA >24" To 30" Diameter Pipe, Rod Out Blockage	55.73
33 01 30 42-0012	EA >30" To 42" Diameter Pipe, Rod Out Blockage	64.03
33 01 30 42-0013	EA >42" To 60" Diameter Pipe, Rod Out Blockage	74.69
33 01 30 42-0014	EA >60" Diameter Pipe, Rod Out Blockage	88.92
33 01 30 42-0015	EA Clean Out Debris From Entrance To Inlet Structure	296.42
33 01 30 42-0016	EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand	960.63
	For >10 To 100, Deduct	-144.09
	For >100 To 250, Deduct	-216.14
	For >250, Deduct	-288.19
33 01 30 42-0017	EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand	1,152.76
	For >10 To 100, Deduct	-172.91
	For >100 To 250, Deduct	-259.37
	For >250, Deduct	-345.83
33 01 30 42-0018	EA Clean Out Blocked Catch Basin By Hand	576.38
	For >10 To 100, Deduct	-86.46
	For >100 To 250, Deduct	-129.69
	For >250, Deduct	-172.91
33 01 30 42-0019	Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)	
	Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.	
33 01 30 42-0020	EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes	332.96
33 01 30 42-0021	EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes	309.34
33 01 30 42-0022	EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes	285.71
33 01 30 42-0023	EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes	262.08
33 01 30 42-0024	EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes	238.46
33 01 30 42-0025	EA Jet/Vacuum Clean >250 Catch Basins Or Manholes	214.82
33 01 30 51	Maintenance of Utilities (33 01 30)	
33 01 30 51-0001	Pipe Repair (33 01 30 51)	
	Note: Excludes excavation and backfill where required See CSI section 31 23 00 00-0000 for excavation and backfill.	
33 01 30 51-0002	Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001)	
	Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.	
33 01 30 51-0003	EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	134.41
	For Stainless Steel Nuts And Bolts, Add	20.64
33 01 30 51-0004	EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	189.39
	For Stainless Steel Nuts And Bolts, Add	31.10
33 01 30 51-0005	EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	218.17
	For Stainless Steel Nuts And Bolts, Add	36.63
33 01 30 51-0006	EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	248.19
	For Stainless Steel Nuts And Bolts, Add	42.14
33 01 30 51-0007	EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	144.85
	For Stainless Steel Nuts And Bolts, Add	22.41
33 01 30 51-0008	EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	201.18
	For Stainless Steel Nuts And Bolts, Add	33.19
33 01 30 51-0009	EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	230.07
	For Stainless Steel Nuts And Bolts, Add	38.59
33 01 30 51-0010	EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	265.37
	For Stainless Steel Nuts And Bolts, Add	45.15
33 01 30 51-0011	EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	155.36
	For Stainless Steel Nuts And Bolts, Add	24.52
33 01 30 51-0012	EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	209.09
	For Stainless Steel Nuts And Bolts, Add	34.70
33 01 30 51-0013	EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	241.20
	For Stainless Steel Nuts And Bolts, Add	40.68
33 01 30 51-0014	EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	280.42
	For Stainless Steel Nuts And Bolts, Add	48.30
33 01 30 51-0015	EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	174.82
	For Stainless Steel Nuts And Bolts, Add	27.88
33 01 30 51-0016	EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	230.25
	For Stainless Steel Nuts And Bolts, Add	37.53
33 01 30 51-0017	EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	279.07
	For Stainless Steel Nuts And Bolts, Add	45.68
33 01 30 51-0018	EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	336.13
	For Stainless Steel Nuts And Bolts, Add	55.11



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		Operation and Maintenance of Utilities	33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0019	EA	4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	437.66 74.02	
33 01 30 51-0020	EA	4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	543.71 92.93	
33 01 30 51-0021	EA	4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	662.73 113.99	
33 01 30 51-0022	EA	6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	205.40 32.90	
33 01 30 51-0023	EA	6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	271.97 44.63	
33 01 30 51-0024	EA	6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	322.33 52.62	
33 01 30 51-0025	EA	6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	378.11 61.15	
33 01 30 51-0026	EA	6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	519.94 88.61	
33 01 30 51-0027	EA	6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	631.92 108.06	
33 01 30 51-0028	EA	6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	754.69 129.12	
33 01 30 51-0029	EA	8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	270.89 39.36	
33 01 30 51-0030	EA	8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	351.14 52.08	
33 01 30 51-0031	EA	8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	423.66 63.02	
33 01 30 51-0032	EA	8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	506.10 75.10	
33 01 30 51-0033	EA	8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	668.10 104.04	
33 01 30 51-0034	EA	8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	799.06 124.41	
33 01 30 51-0035	EA	8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	947.19 146.43	
33 01 30 51-0036	EA	10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	315.53 47.90	
33 01 30 51-0037	EA	10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	422.14 66.26	
33 01 30 51-0038	EA	10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	497.70 77.47	
33 01 30 51-0039	EA	10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	609.91 95.82	
33 01 30 51-0040	EA	10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	797.04 129.97	
33 01 30 51-0041	EA	10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	909.68 145.27	
33 01 30 51-0042	EA	10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,166.24 191.65	
33 01 30 51-0043	EA	12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	359.62 54.03	
33 01 30 51-0044	EA	12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	468.31 71.86	
33 01 30 51-0045	EA	12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	565.13 86.96	
33 01 30 51-0046	EA	12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	694.27 108.06	
33 01 30 51-0047	EA	12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	889.90 142.72	
33 01 30 51-0048	EA	12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,047.63 166.67	
33 01 30 51-0049	EA	12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,327.41 216.11	
33 01 30 51-0050		Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001) Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051	EA	14.38" To 15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	781.04 207.89	
33 01 30 51-0052	EA	14.38" To 15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,103.81 300.12	
33 01 30 51-0053	EA	14.38" To 15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,484.49 407.00	
33 01 30 51-0054	EA	14.38" To 15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,177.69 613.43	
33 01 30 51-0055	EA	15.07" To 15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	819.85 218.12	
33 01 30 51-0056	EA	15.07" To 15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,155.56 314.03	

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33 01 30 51-0057	EA	15.07" To 15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,550.48	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	424.56	
33 01 30 51-0058	EA	15.07" To 15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,283.09	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	642.70	
33 01 30 51-0059	EA	15.92" To 16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	841.54	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	222.53	
33 01 30 51-0060	EA	15.92" To 16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,184.02	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	319.90	
33 01 30 51-0061	EA	15.92" To 16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,592.21	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	434.08	
33 01 30 51-0062	EA	15.92" To 16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,342.67	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	656.60	
33 01 30 51-0063	EA	16.56" To 17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	864.44	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	226.92	
33 01 30 51-0064	EA	16.56" To 17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,216.51	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	326.48	
33 01 30 51-0065	EA	16.56" To 17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,633.35	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	442.13	
33 01 30 51-0066	EA	16.56" To 17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,402.65	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	669.79	
33 01 30 51-0067	EA	17.15" To 17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	885.19	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	230.58	
33 01 30 51-0068	EA	17.15" To 17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,244.64	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	331.60	
33 01 30 51-0069	EA	17.15" To 17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,674.46	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	450.18	
33 01 30 51-0070	EA	17.15" To 17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,457.42	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	680.76	
33 01 30 51-0071	EA	17.82" To 18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	904.71	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	234.25	
33 01 30 51-0072	EA	17.82" To 18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,273.09	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	337.45	
33 01 30 51-0073	EA	17.82" To 18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,710.98	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	457.50	
33 01 30 51-0074	EA	17.82" To 18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,493.47	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	686.25	
33 01 30 51-0075	EA	18.46" To 19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	926.84	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	238.81	
33 01 30 51-0076	EA	18.46" To 19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,306.47	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	344.77	
33 01 30 51-0077	EA	18.46" To 19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,749.59	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	465.55	
33 01 30 51-0078	EA	18.46" To 19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,569.27	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	705.65	
33 01 30 51-0079		Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080		Compression Couplings And Fittings For Copper Pipe (33 01 30 51-0079) Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081		Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082	EA	1/2" Copper Compression Repair Coupling.....	91.65	
33 01 30 51-0083	EA	3/4" Copper Compression Repair Coupling.....	106.67	
33 01 30 51-0084	EA	1" Copper Compression Repair Coupling.....	125.40	
33 01 30 51-0085	EA	1-1/4" Copper Compression Repair Coupling.....	141.08	
33 01 30 51-0086	EA	1-1/2" Copper Compression Repair Coupling.....	217.43	
33 01 30 51-0087		Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088	EA	1/2" Copper Compression Repair 90 Degree Elbow.....	109.88	
33 01 30 51-0089	EA	1" Copper Compression Repair 90 Degree Elbow.....	128.00	
33 01 30 51-0090	EA	1-1/2" Copper Compression Repair 90 Degree Elbow.....	258.88	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0091 EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow	103.59	
33 01 30 51-0092 EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow	93.01	
33 01 30 51-0093 EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow	108.87	
33 01 30 51-0094 EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow	134.49	
33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096 EA 1/2" Copper Compression Repair Tee	201.17	
33 01 30 51-0097 EA 3/4" Copper Compression Repair Tee	156.76	
33 01 30 51-0098 EA 1" Copper Compression Repair Tee	186.18	
33 01 30 51-0099 EA 1" F x 1" M x 1" CTS Street Tee	153.85	
33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101 EA 3/4" M x 1/2" CTS Male Adapter	94.99	
33 01 30 51-0102 EA 3/4" M x 3/4" CTS Male Adapter	76.58	
33 01 30 51-0103 EA 1" M x 1" CTS Male Adapter	87.43	
33 01 30 51-0104 EA 1-1/4" M x 1" CTS Male Adapter	106.62	
33 01 30 51-0105 EA 1-1/4" M x 1-1/4" CTS Male Adapter	127.12	
33 01 30 51-0106 EA 1-1/2" M x 1" CTS Male Adapter	138.87	
33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108 EA 3/4" M x 3/4" CTS Female Adapter	111.21	
33 01 30 51-0109 EA 1" M x 1" CTS Female Adapter	118.13	
33 01 30 51-0110 Compression Couplings And Fittings For Steel Pipe, Cast Body (33 01 30 51-0079)		
Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111 Compression Couplings For Steel Pipe, Cast Body (33 01 30 51-0110)		
Note: Includes gaskets.		
33 01 30 51-0112 EA 1/2" Cast Body, Compression Coupling, 5" Middle Ring	80.82	
33 01 30 51-0113 EA 3/4" Cast Body, Compression Coupling, 5" Middle Ring	81.01	
33 01 30 51-0114 EA 1" Cast Body, Compression Coupling, 5" Middle Ring	91.01	
33 01 30 51-0115 EA 1-1/4" Cast Body, Compression Coupling, 5" Middle Ring	101.10	
33 01 30 51-0116 EA 1-1/2" Cast Body, Compression Coupling, 5" Middle Ring	124.86	
33 01 30 51-0117 EA 2" Cast Body, Compression Coupling, 5" Middle Ring	152.05	
33 01 30 51-0118 EA 1/2" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	83.20	
33 01 30 51-0119 EA 3/4" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	83.63	
33 01 30 51-0120 EA 1" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	91.40	
33 01 30 51-0121 EA 1-1/4" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	102.32	
33 01 30 51-0122 EA 1-1/2" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	128.85	
33 01 30 51-0123 EA 2" Cast Body, Compression Coupling, 5" Middle Ring With Armored Gasket	153.81	
33 01 30 51-0124 EA 3/4" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	162.58	
33 01 30 51-0125 EA 1" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	190.22	
33 01 30 51-0126 EA 1-1/4" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	197.22	
33 01 30 51-0127 EA 1-1/2" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	220.77	
33 01 30 51-0128 EA 2" Steel Body, Compression Coupling, 5" Middle Ring With Armored Gasket	268.81	
33 01 30 51-0129 Compression Reducing Couplings For Steel Pipe (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0130 EA 3/4" x 1/2" Compression Reducing Coupling	88.94	
33 01 30 51-0131 EA 1" x 3/4" Compression Reducing Coupling	93.59	
33 01 30 51-0132 EA 1-1/4" x 3/4" Compression Reducing Coupling	105.44	
33 01 30 51-0133 EA 1-1/4" x 1" Compression Reducing Coupling	109.82	
33 01 30 51-0134 EA 1-1/2" x 3/4" Compression Reducing Coupling	216.39	
33 01 30 51-0135 EA 1-1/2" x 1" Compression Reducing Coupling	131.66	
33 01 30 51-0136 EA 1-1/2" x 1-1/4" Compression Reducing Coupling	132.28	
33 01 30 51-0137 EA 2" x 3/4" Compression Reducing Coupling	258.38	
33 01 30 51-0138 EA 2" x 1" Compression Reducing Coupling	234.04	
33 01 30 51-0139 EA 2" x 1-1/4" Compression Reducing Coupling	176.12	
33 01 30 51-0140 EA 2" x 1-1/2" Compression Reducing Coupling	175.48	
33 01 30 51-0141 Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0142 EA 1" Compression 45 Degree Elbow	149.46	
33 01 30 51-0143 EA 1-1/4" Compression 45 Degree Elbow	155.09	
33 01 30 51-0144 EA 1-1/2" Compression 45 Degree Elbow	200.65	
33 01 30 51-0145 EA 2" Compression 45 Degree Elbow	253.83	
33 01 30 51-0146 EA 3/4" Compression 90 Degree Elbow	99.04	
33 01 30 51-0147 EA 1" Compression 90 Degree Elbow	102.04	
33 01 30 51-0148 EA 1-1/4" Compression 90 Degree Elbow	119.67	
33 01 30 51-0149 EA 1-1/2" Compression 90 Degree Elbow	171.93	
33 01 30 51-0150 EA 2" Compression 90 Degree Elbow	187.43	
33 01 30 51-0151 EA 3/4" Plain End Compression 90 Degree Street Elbow	99.37	
33 01 30 51-0152 EA 1" Plain End Compression 90 Degree Street Elbow	86.25	
33 01 30 51-0153 EA 1-1/4" Plain End Compression 90 Degree Street Elbow	97.34	
33 01 30 51-0154 EA 1-1/2" Plain End Compression 90 Degree Street Elbow	123.23	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0155 EA 2" Plain End Compression 90 Degree Street Elbow	159.88	
33 01 30 51-0156 EA 3/4" Threaded End Compression 90 Degree Street Elbow	102.80	
33 01 30 51-0157 EA 1" Threaded End Compression 90 Degree Street Elbow	92.68	
33 01 30 51-0158 EA 1-1/4" Threaded End Compression 90 Degree Street Elbow	121.20	
33 01 30 51-0159 EA 1-1/2" Threaded End Compression 90 Degree Street Elbow	146.00	
33 01 30 51-0160 EA 2" Threaded End Compression 90 Degree Street Elbow	208.58	
33 01 30 51-0161 Steel Compression Repair Fittings, Tees (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0162 EA 3/4" Compression Street Tee	107.15	
33 01 30 51-0163 EA 1" Compression Street Tee	126.18	
33 01 30 51-0164 EA 1-1/4" Compression Street Tee	126.49	
33 01 30 51-0165 EA 1-1/2" Compression Street Tee	145.20	
33 01 30 51-0166 EA 2" Compression Street Tee	223.18	
33 01 30 51-0167 EA 1-1/4" x 1-1/4" x 1" Compression Reducing Street Tee	125.25	
33 01 30 51-0168 EA 1-1/4" x 1" x 1-1/4" Compression Reducing Street Tee	131.47	
33 01 30 51-0169 EA 1-1/2" x 1-1/2" x 1" Compression Reducing Street Tee	164.69	
33 01 30 51-0170 EA 1-1/2" x 1-1/2" x 1-1/4" Compression Reducing Street Tee	192.79	
33 01 30 51-0171 EA 1-1/2" x 1" x 1-1/2" Compression Reducing Street Tee	194.03	
33 01 30 51-0172 EA 1-1/2" x 1-1/4" x 1-1/2" Compression Reducing Street Tee	162.04	
33 01 30 51-0173 EA 2" x 1-1/4" x 2" Compression Reducing Street Tee	217.11	
33 01 30 51-0174 EA 2" x 1-1/2" x 2" Compression Reducing Street Tee	248.33	
33 01 30 51-0175 EA 3/4" Welding Compression Street Tee	200.81	
33 01 30 51-0176 EA 1" Welding Compression Street Tee	200.32	
33 01 30 51-0177 EA 1-1/4" Welding Compression Street Tee	214.35	
33 01 30 51-0178 EA 1-1/2" Welding Compression Street Tee	257.58	
33 01 30 51-0179 EA 2" Welding Compression Street Tee	348.54	
33 01 30 51-0180 EA 3/4" Regular Compression Tee	146.33	
33 01 30 51-0181 EA 1" Regular Compression Tee	259.76	
33 01 30 51-0182 EA 1-1/4" Regular Compression Tee	273.67	
33 01 30 51-0183 EA 1-1/2" Regular Compression Tee	292.38	
33 01 30 51-0184 EA 2" Regular Compression Tee	323.25	
33 01 30 51-0185 EA 2" x 2" x 1-1/4" Regular Compression Reducing Tee	318.25	
33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0187 EA 3/4" Compression Male Adapter	98.75	
33 01 30 51-0188 EA 1" Compression Male Adapter	109.83	
33 01 30 51-0189 EA 1-1/4" Compression Male Adapter	144.01	
33 01 30 51-0190 EA 1-1/2" Compression Male Adapter	161.95	
33 01 30 51-0191 EA 2" Compression Male Adapter	182.20	
33 01 30 51-0192 EA 1" x 1-1/4" Compression Male Adapter	143.21	
33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0194 EA 3/4" Compression Line Caps	53.21	
33 01 30 51-0195 EA 1" Compression Line Caps	61.94	
33 01 30 51-0196 EA 1-1/4" Compression Line Caps	70.83	
33 01 30 51-0197 EA 1-1/2" Compression Line Caps	83.13	
33 01 30 51-0198 EA 2" Compression Line Caps	102.80	
33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes Buna S gasket. Dresser style 38		
33 01 30 51-0200 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket	78.84	
33 01 30 51-0201 EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket	97.28	
33 01 30 51-0202 EA 1" Coupling, 5" Middle Ring With Buna S Gasket	111.43	
33 01 30 51-0203 EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket	132.46	
33 01 30 51-0204 EA 2" Coupling, 4" Middle Ring With Buna S Gasket	163.81	
33 01 30 51-0205 EA 2" Coupling, 5" Middle Ring With Buna S Gasket	218.69	
33 01 30 51-0206 EA 2" Coupling, 7" Middle Ring With Buna S Gasket	205.03	
33 01 30 51-0207 EA 3" Coupling, 4" Middle Ring With Buna S Gasket	267.38	
33 01 30 51-0208 EA 3" Coupling, 5" Middle Ring With Buna S Gasket	275.64	
33 01 30 51-0209 EA 3" Coupling, 7" Middle Ring With Buna S Gasket	283.91	
33 01 30 51-0210 EA 4" Coupling, 4" Middle Ring With Buna S Gasket	308.92	
33 01 30 51-0211 EA 4" Coupling, 5" Middle Ring With Buna S Gasket	322.95	
33 01 30 51-0212 EA 4" Coupling, 7" Middle Ring With Buna S Gasket	340.53	
33 01 30 51-0213 EA 5" Coupling, 4" Middle Ring With Buna S Gasket	400.77	
33 01 30 51-0214 EA 5" Coupling, 5" Middle Ring With Buna S Gasket	406.31	
33 01 30 51-0215 EA 5" Coupling, 7" Middle Ring With Buna S Gasket	426.48	
33 01 30 51-0216 EA 6" Coupling, 4" Middle Ring With Buna S Gasket	426.61	
33 01 30 51-0217 EA 6" Coupling, 5" Middle Ring With Buna S Gasket	441.59	
33 01 30 51-0218 EA 6" Coupling, 7" Middle Ring With Buna S Gasket	460.73	
33 01 30 51-0219 EA 8" Coupling, 4" Middle Ring With Buna S Gasket	497.52	
33 01 30 51-0220 EA 8" Coupling, 5" Middle Ring With Buna S Gasket	519.67	
33 01 30 51-0221 EA 8" Coupling, 7" Middle Ring With Buna S Gasket	537.85	
33 01 30 51-0222 EA 10" Coupling, 5" Middle Ring With Buna S Gasket	614.35	
33 01 30 51-0223 EA 10" Coupling, 7" Middle Ring With Buna S Gasket	718.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0224	EA		12" Coupling, 5" Middle Ring With Buna S Gasket.....	698.40	
33 01 30 51-0225	EA		12" Coupling, 7" Middle Ring With Buna S Gasket.....	920.02	
33 01 30 51-0226	EA		14" Coupling, 7" Middle Ring With Buna S Gasket.....	1,064.99	
33 01 30 51-0227	EA		16" Coupling, 7" Middle Ring With Buna S Gasket.....	1,275.38	
33 01 30 51-0228	EA		18" Coupling, 7" Middle Ring With Buna S Gasket.....	1,403.71	
33 01 30 51-0229	EA		20" Coupling, 7" Middle Ring With Buna S Gasket.....	1,515.50	
33 01 30 51-0230	EA		22" Coupling, 7" Middle Ring With Buna S Gasket.....	1,904.16	
33 01 30 51-0231	EA		24" Coupling, 7" Middle Ring With Buna S Gasket.....	2,003.56	
33 01 30 51-0232 Couplings For Steel Pipe (33 01 30 51-0079)					
Note: Includes Buna S gasket, protected. Dresser style 38.					
33 01 30 51-0233	EA		1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	81.21	
33 01 30 51-0234	EA		3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	96.95	
33 01 30 51-0235	EA		1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	111.29	
33 01 30 51-0236	EA		1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	131.36	
33 01 30 51-0237	EA		2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	195.34	
33 01 30 51-0238	EA		2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	191.00	
33 01 30 51-0239	EA		2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	193.17	
33 01 30 51-0240	EA		3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	283.91	
33 01 30 51-0241	EA		3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	292.17	
33 01 30 51-0242	EA		3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	300.44	
33 01 30 51-0243	EA		4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	331.44	
33 01 30 51-0244	EA		4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	316.88	
33 01 30 51-0245	EA		4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	324.54	
33 01 30 51-0246	EA		5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	429.78	
33 01 30 51-0247	EA		5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	433.83	
33 01 30 51-0248	EA		5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	621.30	
33 01 30 51-0249	EA		6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	435.48	
33 01 30 51-0250	EA		6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	456.99	
33 01 30 51-0251	EA		6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	465.29	
33 01 30 51-0252	EA		8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	545.60	
33 01 30 51-0253	EA		8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	553.76	
33 01 30 51-0254	EA		8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	566.92	
33 01 30 51-0255	EA		10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	634.18	
33 01 30 51-0256	EA		10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	739.56	
33 01 30 51-0257	EA		12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	719.07	
33 01 30 51-0258	EA		12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	940.23	
33 01 30 51-0259	EA		14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,085.66	
33 01 30 51-0260	EA		16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,306.37	
33 01 30 51-0261	EA		18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,445.04	
33 01 30 51-0262	EA		20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,556.83	
33 01 30 51-0263	EA		22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,945.48	
33 01 30 51-0264	EA		24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	2,044.88	
33 01 30 51-0265 Couplings For Steel Pipe (33 01 30 51-0079)					
Note: Includes Buna N gasket, protected. Dresser style 38.					
33 01 30 51-0266	EA		1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected.....	95.90	
33 01 30 51-0267	EA		3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	111.91	
33 01 30 51-0268	EA		1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	128.83	
33 01 30 51-0269	EA		1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	154.15	
33 01 30 51-0270	EA		2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	195.34	
33 01 30 51-0271	EA		2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	232.24	
33 01 30 51-0272	EA		2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	244.51	
33 01 30 51-0273	EA		3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	283.91	
33 01 30 51-0274	EA		3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	292.17	
33 01 30 51-0275	EA		3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	300.44	
33 01 30 51-0276	EA		4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	331.44	
33 01 30 51-0277	EA		4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	360.91	
33 01 30 51-0278	EA		4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	372.10	
33 01 30 51-0279	EA		5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	429.78	
33 01 30 51-0280	EA		5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	433.83	
33 01 30 51-0281	EA		5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	481.15	
33 01 30 51-0282	EA		6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	435.48	
33 01 30 51-0283	EA		6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	456.99	
33 01 30 51-0284	EA		6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	465.29	
33 01 30 51-0285	EA		8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	545.60	
33 01 30 51-0286	EA		8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	553.76	
33 01 30 51-0287	EA		8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	566.92	
33 01 30 51-0288	EA		10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	634.18	
33 01 30 51-0289	EA		10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	739.56	
33 01 30 51-0290	EA		12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	719.07	
33 01 30 51-0291	EA		12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	940.23	
33 01 30 51-0292	EA		14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,085.66	
33 01 30 51-0293	EA		16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,275.38	
33 01 30 51-0294	EA		18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,445.04	
33 01 30 51-0295	EA		20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,556.83	
33 01 30 51-0296	EA		22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,945.48	
33 01 30 51-0297	EA		24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	2,044.88	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0298**Couplings For Steel Pipe** (33 01 30 51-0079)

Note: Includes high temperature carded glass gasket, protected. Dresser style 38.

33 01 30 51-0299	EA	3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	163.75
33 01 30 51-0300	EA	1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	176.23
33 01 30 51-0301	EA	1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	183.06
33 01 30 51-0302	EA	2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	282.74
33 01 30 51-0303	EA	2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	305.34
33 01 30 51-0304	EA	2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	316.85
33 01 30 51-0305	EA	3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	363.56
33 01 30 51-0306	EA	3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	360.96
33 01 30 51-0307	EA	4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	402.23
33 01 30 51-0308	EA	4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	413.43
33 01 30 51-0309	EA	5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	562.14
33 01 30 51-0310	EA	5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	577.00
33 01 30 51-0311	EA	6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	597.20
33 01 30 51-0312	EA	6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	607.05
33 01 30 51-0313	EA	8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	616.49
33 01 30 51-0314	EA	8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	764.36
33 01 30 51-0315	EA	8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	824.67
33 01 30 51-0316	EA	10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	839.95
33 01 30 51-0317	EA	10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	839.75
33 01 30 51-0318	EA	12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	1,071.01
33 01 30 51-0319	EA	12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,116.43
33 01 30 51-0320	EA	14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,293.18
33 01 30 51-0321	EA	16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,626.26
33 01 30 51-0322	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,585.53
33 01 30 51-0323	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,769.64
33 01 30 51-0324	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,918.62
33 01 30 51-0325	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	2,086.20

33 01 30 51-0326**Pipe Plugging** (33 01 30 51-0001)**33 01 30 51-0327****Gravity Bladder Type, Temporary Pipe Plugging** (33 01 30 51-0326)

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.

33 01 30 51-0328	EA	3/4" Bladder Type, Temporary Pipe Plug.....	86.48
33 01 30 51-0329	EA	1" Bladder Type, Temporary Pipe Plug.....	92.49
33 01 30 51-0330	EA	1-1/4" Bladder Type, Temporary Pipe Plug.....	99.59
33 01 30 51-0331	EA	1-1/2" Bladder Type, Temporary Pipe Plug.....	106.27
33 01 30 51-0332	EA	2" Bladder Type, Temporary Pipe Plug.....	112.71
33 01 30 51-0333	EA	2-1/2" Bladder Type, Temporary Pipe Plug.....	119.81
33 01 30 51-0334	EA	3" Bladder Type, Temporary Pipe Plug.....	128.55
33 01 30 51-0335	EA	4" Bladder Type, Temporary Pipe Plug.....	141.32
33 01 30 51-0336	EA	5" Bladder Type, Temporary Pipe Plug.....	153.21
33 01 30 51-0337	EA	6" Bladder Type, Temporary Pipe Plug.....	171.02
33 01 30 51-0338	EA	8" Bladder Type, Temporary Pipe Plug.....	189.78
33 01 30 51-0339	EA	10" Bladder Type, Temporary Pipe Plug.....	220.03
33 01 30 51-0340	EA	12" Bladder Type, Temporary Pipe Plug.....	255.51
33 01 30 51-0341	EA	14" Bladder Type, Temporary Pipe Plug.....	304.45
33 01 30 51-0342	EA	16" Bladder Type, Temporary Pipe Plug.....	366.95
33 01 30 51-0343	EA	18" Bladder Type, Temporary Pipe Plug.....	441.99
33 01 30 51-0344	EA	20" Bladder Type, Temporary Pipe Plug.....	525.32
33 01 30 51-0345	EA	24" Bladder Type, Temporary Pipe Plug.....	605.90

33 01 30 51-0346**Hydra Stop, Hot Tapping Of Pressure Pipe** (33 01 30 51-0326)

Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.

33 01 30 51-0347	EA	2" Hydra Stop, Line Stopper.....	2,958.01
33 01 30 51-0348	EA	2-1/2" Hydra Stop, Line Stopper.....	3,711.66
33 01 30 51-0349	EA	3" Hydra Stop, Line Stopper.....	4,550.19
33 01 30 51-0350	EA	4" Hydra Stop, Line Stopper.....	5,491.59
33 01 30 51-0351	EA	5" Hydra Stop, Line Stopper.....	6,192.49
33 01 30 51-0352	EA	6" Hydra Stop, Line Stopper.....	7,311.32
33 01 30 51-0353	EA	8" Hydra Stop, Line Stopper.....	8,012.22
33 01 30 51-0354	EA	10" Hydra Stop, Line Stopper.....	9,131.02
33 01 30 51-0355	EA	12" Hydra Stop, Line Stopper.....	10,249.86
33 01 30 51-0356	EA	14" Hydra Stop, Line Stopper.....	11,439.41
33 01 30 51-0357	EA	16" Hydra Stop, Line Stopper.....	13,053.47
33 01 30 51-0358	EA	18" Hydra Stop, Line Stopper.....	14,879.68
33 01 30 51-0359	EA	20" Hydra Stop, Line Stopper.....	17,696.14

33 01 30 51-0360**Aluminum Expansion Plugs** (33 01 30 51-0326)

Note: For use with PVC, clay Or cast iron drainage pipe.

33 01 30 51-0361	EA	3" Pipe Aluminum Expansion Plug.....	83.19
33 01 30 51-0362	EA	4" Pipe Aluminum Expansion Plug.....	119.78
33 01 30 51-0363	EA	5" Pipe Aluminum Expansion Plug.....	135.00
33 01 30 51-0364	EA	6" Pipe Aluminum Expansion Plug.....	205.11
33 01 30 51-0365	EA	8" Pipe Aluminum Expansion Plug.....	210.78
33 01 30 51-0366	EA	10" Pipe Aluminum Expansion Plug.....	263.70



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0367	EA	12" Pipe Aluminum Expansion Plug.....	356.67	
33 01 30 51-0368	EA	14" Pipe Aluminum Expansion Plug.....	576.11	
33 01 30 51-0369	EA	15" Pipe Aluminum Expansion Plug.....	623.97	
33 01 30 51-0370 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)				
33 01 30 51-0371	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	188.75	
33 01 30 51-0372	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	189.34	
33 01 30 51-0373	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	190.83	
33 01 30 51-0374	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	192.32	
33 01 30 51-0375	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	193.06	
33 01 30 51-0376	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	195.29	
33 01 30 51-0377	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	197.52	
33 01 30 51-0378	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	200.50	
33 01 30 51-0379	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	346.71	
33 01 30 51-0380	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	356.38	
33 01 30 51-0381	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	363.08	
33 01 30 51-0382	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	433.73	
33 01 30 51-0383	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	442.65	
33 01 30 51-0384	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	448.60	
33 01 30 51-0385	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	457.53	
33 01 30 51-0386	EA	18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	466.45	
33 01 30 51-0387	EA	20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	478.35	
33 01 30 51-0388	EA	24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	499.18	
33 01 30 51-0389 PolySeal Pipe Coupler (33 01 30 51-0001)				
33 01 30 51-0390	EA	18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	382.27	
33 01 30 51-0391	EA	24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	431.69	
33 01 30 63 Sewer and Pipe Joint Sealing (33 01 30)				
33 01 30 63-0001 Joint Air Test (33 01 30 63)				
33 01 30 63-0002	EA	4" To 8", Joint Air Test.....	118.11	
33 01 30 63-0003	EA	10" To 15", Joint Air Test.....	137.79	
33 01 30 63-0004	EA	>15" To 21", Joint Air Test.....	157.48	
33 01 30 63-0005	EA	>21" To 24", Joint Air Test.....	196.86	
33 01 30 63-0006	EA	>24" To 27", Joint Air Test.....	236.22	
33 01 30 63-0007	EA	>27" To 36", Joint Air Test.....	275.59	
33 01 30 63-0008 Joint Seal And Joint Air Retest (33 01 30 63)				
Note: Includes grout.				
33 01 30 63-0009	EA	4" Joint Seal And Joint Air Retest.....	353.10	
Note: Includes up to 1 gallon of grout.				
33 01 30 63-0010	EA	6" Joint Seal And Joint Air Retest.....	392.47	
Note: Includes 1 gallon of grout.				
33 01 30 63-0011	EA	8" Joint Seal And Joint Air Retest.....	469.99	
Note: Includes 2 gallons of grout.				
33 01 30 63-0012	EA	10" Joint Seal And Joint Air Retest.....	528.43	
Note: Includes 2.5 gallons of grout.				
33 01 30 63-0013	EA	12" Joint Seal And Joint Air Retest.....	586.88	
Note: Includes 3 gallons of grout.				
33 01 30 63-0014	EA	15" Joint Seal And Joint Air Retest.....	694.22	
Note: Includes 3.75 gallons of grout.				
33 01 30 63-0015	EA	18" Joint Seal And Joint Air Retest.....	801.57	
Note: Includes 4.5 gallons of grout.				
33 01 30 63-0016	EA	21" Joint Seal And Joint Air Retest.....	908.93	
Note: Includes 5.25 gallons of grout.				
33 01 30 63-0017	EA	24" Joint Seal And Joint Air Retest.....	1,055.64	
Note: Includes 6 gallons of grout.				
33 01 30 63-0018	EA	27" Joint Seal And Joint Air Retest.....	1,202.35	
Note: Includes 6.75 gallons of grout.				
33 01 30 63-0019	EA	30" Joint Seal And Joint Air Retest.....	1,388.45	
Note: Includes 7.5 gallons of grout.				
33 01 30 63-0020	EA	36" Joint Seal And Joint Air Retest.....	1,603.15	
Note: Includes 9 gallons of grout.				
33 01 30 63-0021	GAL	Extra Grout Per Joint.....	195.62	
Note: For extra grout per joint required over listed amount.				
33 01 30 70 Rehabilitation of Sewer Utilities (33 01 30)				
33 01 30 70-0001 Cementitious Pipe Coatings By Hand (33 01 30 70)				
Note: To be used on repair areas to install the coating on the exposed portion of the pipe.				
33 01 30 70-0002	SF	Up To 1" Thick Cementitious Coating On Pipe, Troweled On.....	10.81	
33 01 30 70-0003	SF	>1" To 2" Thick Cementitious Coating On Pipe, Troweled On.....	16.32	
33 01 30 71 Relining Sewers (33 01 30)				

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 71-0001	Relining Underground Pipelines (33 01 30 71) Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hour response for owners' backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners' backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.			
33 01 30 71-0002	Lining Pipe, Spray Applied With Structural Polyurethane (33 01 30 71-0001) Note: Two part structural polyurethane.			
33 01 30 71-0003	Mobilization And Set-up For Spray Applied Structural Polyurethane Lining (33 01 30 71-0002)			
33 01 30 71-0004	EA Initial Set-up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining	2,009.66		
33 01 30 71-0005	Lining Pipe, Spray Applied With 100 mil Structural Polyurethane (33 01 30 71-0002) Note: Two part structural polyurethane.			
33 01 30 71-0006	LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	63.20		
	For Up To 75, Add	13.72		
	For >75 To 150, Add	6.32		
	For >500 To 1,000, Deduct	-1.70		
	For >1,000 To 2,000, Deduct	-3.29		
	For >2,000 To 5,000, Deduct	-5.09		
	For >5,000, Deduct	-7.40		
33 01 30 71-0007	LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	73.73		
	For Up To 75, Add	16.01		
	For >75 To 150, Add	7.37		
	For >500 To 1,000, Deduct	-1.98		
	For >1,000 To 2,000, Deduct	-3.83		
	For >2,000 To 5,000, Deduct	-5.94		
	For >5,000, Deduct	-8.64		
33 01 30 71-0008	LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	84.27		
	For Up To 75, Add	18.30		
	For >75 To 150, Add	8.43		
	For >500 To 1,000, Deduct	-2.26		
	For >1,000 To 2,000, Deduct	-4.38		
	For >2,000 To 5,000, Deduct	-6.79		
	For >5,000, Deduct	-9.87		
33 01 30 71-0009	LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	94.80		
	For Up To 75, Add	20.59		
	For >75 To 150, Add	9.48		
	For >500 To 1,000, Deduct	-2.55		
	For >1,000 To 2,000, Deduct	-4.93		
	For >2,000 To 5,000, Deduct	-7.64		
	For >5,000, Deduct	-11.11		
33 01 30 71-0010	LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	105.33		
	For Up To 75, Add	22.87		
	For >75 To 150, Add	10.53		
	For >500 To 1,000, Deduct	-2.83		
	For >1,000 To 2,000, Deduct	-5.48		
	For >2,000 To 5,000, Deduct	-8.49		
	For >5,000, Deduct	-12.34		
33 01 30 71-0011	LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	115.86		
	For Up To 75, Add	25.16		
	For >75 To 150, Add	11.59		
	For >500 To 1,000, Deduct	-3.11		
	For >1,000 To 2,000, Deduct	-6.03		
	For >2,000 To 5,000, Deduct	-9.34		
	For >5,000, Deduct	-13.57		
33 01 30 71-0012	LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	126.39		
	For Up To 75, Add	27.45		
	For >75 To 150, Add	12.64		
	For >500 To 1,000, Deduct	-3.39		
	For >1,000 To 2,000, Deduct	-6.57		
	For >2,000 To 5,000, Deduct	-10.18		
	For >5,000, Deduct	-14.81		
33 01 30 71-0013	LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	136.93		
	For Up To 75, Add	29.73		
	For >75 To 150, Add	13.69		
	For >500 To 1,000, Deduct	-3.68		
	For >1,000 To 2,000, Deduct	-7.12		
	For >2,000 To 5,000, Deduct	-11.03		
	For >5,000, Deduct	-16.04		
33 01 30 71-0014	LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	147.47		
	For Up To 75, Add	32.02		
	For >75 To 150, Add	14.75		
	For >500 To 1,000, Deduct	-3.96		
	For >1,000 To 2,000, Deduct	-7.67		
	For >2,000 To 5,000, Deduct	-11.88		
	For >5,000, Deduct	-17.28		
33 01 30 71-0015	LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	157.99		
	For Up To 75, Add	34.31		
	For >75 To 150, Add	15.80		
	For >500 To 1,000, Deduct	-4.24		
	For >1,000 To 2,000, Deduct	-8.22		
	For >2,000 To 5,000, Deduct	-12.73		
	For >5,000, Deduct	-18.51		



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0016	LF	96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	168.53	
		For Up To 75, Add	36.60	
		For >75 To 150, Add	16.85	
		For >500 To 1,000, Deduct	-4.53	
		For >1,000 To 2,000, Deduct	-8.76	
		For >2,000 To 5,000, Deduct	-13.58	
		For >5,000, Deduct	-19.74	
33 01 30 71-0017	LF	102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	179.06	
		For Up To 75, Add	38.88	
		For >75 To 150, Add	17.91	
		For >500 To 1,000, Deduct	-4.81	
		For >1,000 To 2,000, Deduct	-9.31	
		For >2,000 To 5,000, Deduct	-14.43	
		For >5,000, Deduct	-20.98	
33 01 30 71-0018	LF	108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	189.59	
		For Up To 75, Add	41.17	
		For >75 To 150, Add	18.96	
		For >500 To 1,000, Deduct	-5.09	
		For >1,000 To 2,000, Deduct	-9.86	
		For >2,000 To 5,000, Deduct	-15.28	
		For >5,000, Deduct	-22.21	
33 01 30 71-0019	LF	114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	200.13	
		For Up To 75, Add	43.46	
		For >75 To 150, Add	20.01	
		For >500 To 1,000, Deduct	-5.38	
		For >1,000 To 2,000, Deduct	-10.41	
		For >2,000 To 5,000, Deduct	-16.13	
		For >5,000, Deduct	-23.45	
33 01 30 71-0020	LF	120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	210.65	
		For Up To 75, Add	45.74	
		For >75 To 150, Add	21.07	
		For >500 To 1,000, Deduct	-5.66	
		For >1,000 To 2,000, Deduct	-10.95	
		For >2,000 To 5,000, Deduct	-16.97	
		For >5,000, Deduct	-24.68	
33 01 30 71-0021	SF	Structure Lining, Spray Applied With 100 mil Structural Polyurethane	6.72	
33 01 30 71-0022		Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0002)		
		Note: Two part structural polyurethane.		
33 01 30 71-0023	LF	36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	85.14	
		For Up To 75, Add	18.17	
		For >75 To 150, Add	8.51	
		For >500 To 1,000, Deduct	-2.16	
		For >1,000 To 2,000, Deduct	-4.20	
		For >2,000 To 5,000, Deduct	-6.48	
		For >5,000, Deduct	-9.66	
33 01 30 71-0024	LF	42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	99.31	
		For Up To 75, Add	21.19	
		For >75 To 150, Add	9.93	
		For >500 To 1,000, Deduct	-2.52	
		For >1,000 To 2,000, Deduct	-4.90	
		For >2,000 To 5,000, Deduct	-7.56	
		For >5,000, Deduct	-11.26	
33 01 30 71-0025	LF	48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	113.52	
		For Up To 75, Add	24.23	
		For >75 To 150, Add	11.35	
		For >500 To 1,000, Deduct	-2.88	
		For >1,000 To 2,000, Deduct	-5.61	
		For >2,000 To 5,000, Deduct	-8.64	
		For >5,000, Deduct	-12.87	
33 01 30 71-0026	LF	54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	127.71	
		For Up To 75, Add	27.25	
		For >75 To 150, Add	12.77	
		For >500 To 1,000, Deduct	-3.24	
		For >1,000 To 2,000, Deduct	-6.31	
		For >2,000 To 5,000, Deduct	-9.72	
		For >5,000, Deduct	-14.48	
33 01 30 71-0027	LF	60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	141.90	
		For Up To 75, Add	30.28	
		For >75 To 150, Add	14.19	
		For >500 To 1,000, Deduct	-3.60	
		For >1,000 To 2,000, Deduct	-7.01	
		For >2,000 To 5,000, Deduct	-10.80	
		For >5,000, Deduct	-16.09	
33 01 30 71-0028	LF	66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	156.08	
		For Up To 75, Add	33.31	
		For >75 To 150, Add	15.61	
		For >500 To 1,000, Deduct	-3.96	
		For >1,000 To 2,000, Deduct	-7.71	
		For >2,000 To 5,000, Deduct	-11.87	
		For >5,000, Deduct	-17.70	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0029 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	170.27	
For Up To 75, Add	36.34	
For >75 To 150, Add	17.03	
For >500 To 1,000, Deduct	-4.32	
For >1,000 To 2,000, Deduct	-8.41	
For >2,000 To 5,000, Deduct	-12.95	
For >5,000, Deduct	-19.31	
33 01 30 71-0030 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	184.46	
For Up To 75, Add	39.36	
For >75 To 150, Add	18.45	
For >500 To 1,000, Deduct	-4.68	
For >1,000 To 2,000, Deduct	-9.11	
For >2,000 To 5,000, Deduct	-14.03	
For >5,000, Deduct	-20.92	
33 01 30 71-0031 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	198.66	
For Up To 75, Add	42.39	
For >75 To 150, Add	19.87	
For >500 To 1,000, Deduct	-5.04	
For >1,000 To 2,000, Deduct	-9.81	
For >2,000 To 5,000, Deduct	-15.11	
For >5,000, Deduct	-22.53	
33 01 30 71-0032 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	212.83	
For Up To 75, Add	45.42	
For >75 To 150, Add	21.28	
For >500 To 1,000, Deduct	-5.40	
For >1,000 To 2,000, Deduct	-10.51	
For >2,000 To 5,000, Deduct	-16.19	
For >5,000, Deduct	-24.14	
33 01 30 71-0033 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	227.03	
For Up To 75, Add	48.45	
For >75 To 150, Add	22.70	
For >500 To 1,000, Deduct	-5.76	
For >1,000 To 2,000, Deduct	-11.21	
For >2,000 To 5,000, Deduct	-17.27	
For >5,000, Deduct	-25.75	
33 01 30 71-0034 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	241.22	
For Up To 75, Add	51.48	
For >75 To 150, Add	24.12	
For >500 To 1,000, Deduct	-6.12	
For >1,000 To 2,000, Deduct	-11.91	
For >2,000 To 5,000, Deduct	-18.35	
For >5,000, Deduct	-27.35	
33 01 30 71-0035 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	255.41	
For Up To 75, Add	54.51	
For >75 To 150, Add	25.54	
For >500 To 1,000, Deduct	-6.48	
For >1,000 To 2,000, Deduct	-12.61	
For >2,000 To 5,000, Deduct	-19.43	
For >5,000, Deduct	-28.96	
33 01 30 71-0036 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	269.59	
For Up To 75, Add	57.53	
For >75 To 150, Add	26.96	
For >500 To 1,000, Deduct	-6.84	
For >1,000 To 2,000, Deduct	-13.31	
For >2,000 To 5,000, Deduct	-20.51	
For >5,000, Deduct	-30.57	
33 01 30 71-0037 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	283.78	
For Up To 75, Add	60.56	
For >75 To 150, Add	28.38	
For >500 To 1,000, Deduct	-7.20	
For >1,000 To 2,000, Deduct	-14.01	
For >2,000 To 5,000, Deduct	-21.59	
For >5,000, Deduct	-32.18	
33 01 30 71-0038 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane	9.03	
33 01 30 71-0039 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0040 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	107.05	
For Up To 75, Add	22.61	
For >75 To 150, Add	10.71	
For >500 To 1,000, Deduct	-2.62	
For >1,000 To 2,000, Deduct	-5.12	
For >2,000 To 5,000, Deduct	-7.86	
For >5,000, Deduct	-11.91	
33 01 30 71-0041 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	124.91	
For Up To 75, Add	26.38	
For >75 To 150, Add	12.49	
For >500 To 1,000, Deduct	-3.06	
For >1,000 To 2,000, Deduct	-5.98	
For >2,000 To 5,000, Deduct	-9.18	
For >5,000, Deduct	-13.89	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0042	LF	48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	142.75	
		For Up To 75, Add	30.15	
		For >75 To 150, Add	14.28	
		For >500 To 1,000, Deduct	-3.50	
		For >1,000 To 2,000, Deduct	-6.83	
		For >2,000 To 5,000, Deduct	-10.49	
		For >5,000, Deduct	-15.88	
33 01 30 71-0043	LF	54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	160.60	
		For Up To 75, Add	33.92	
		For >75 To 150, Add	16.06	
		For >500 To 1,000, Deduct	-3.93	
		For >1,000 To 2,000, Deduct	-7.69	
		For >2,000 To 5,000, Deduct	-11.80	
		For >5,000, Deduct	-17.86	
33 01 30 71-0044	LF	60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	178.43	
		For Up To 75, Add	37.69	
		For >75 To 150, Add	17.84	
		For >500 To 1,000, Deduct	-4.37	
		For >1,000 To 2,000, Deduct	-8.54	
		For >2,000 To 5,000, Deduct	-13.11	
		For >5,000, Deduct	-19.84	
33 01 30 71-0045	LF	66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	196.27	
		For Up To 75, Add	41.46	
		For >75 To 150, Add	19.63	
		For >500 To 1,000, Deduct	-4.81	
		For >1,000 To 2,000, Deduct	-9.39	
		For >2,000 To 5,000, Deduct	-14.42	
		For >5,000, Deduct	-21.83	
33 01 30 71-0046	LF	72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	214.12	
		For Up To 75, Add	45.23	
		For >75 To 150, Add	21.41	
		For >500 To 1,000, Deduct	-5.24	
		For >1,000 To 2,000, Deduct	-10.25	
		For >2,000 To 5,000, Deduct	-15.73	
		For >5,000, Deduct	-23.81	
33 01 30 71-0047	LF	78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	231.96	
		For Up To 75, Add	48.99	
		For >75 To 150, Add	23.20	
		For >500 To 1,000, Deduct	-5.68	
		For >1,000 To 2,000, Deduct	-11.10	
		For >2,000 To 5,000, Deduct	-17.04	
		For >5,000, Deduct	-25.80	
33 01 30 71-0048	LF	84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	249.80	
		For Up To 75, Add	52.76	
		For >75 To 150, Add	24.98	
		For >500 To 1,000, Deduct	-6.12	
		For >1,000 To 2,000, Deduct	-11.95	
		For >2,000 To 5,000, Deduct	-18.35	
		For >5,000, Deduct	-27.78	
33 01 30 71-0049	LF	90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	267.64	
		For Up To 75, Add	56.53	
		For >75 To 150, Add	26.76	
		For >500 To 1,000, Deduct	-6.55	
		For >1,000 To 2,000, Deduct	-12.81	
		For >2,000 To 5,000, Deduct	-19.66	
		For >5,000, Deduct	-29.77	
33 01 30 71-0050	LF	96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	285.49	
		For Up To 75, Add	60.30	
		For >75 To 150, Add	28.55	
		For >500 To 1,000, Deduct	-6.99	
		For >1,000 To 2,000, Deduct	-13.66	
		For >2,000 To 5,000, Deduct	-20.97	
		For >5,000, Deduct	-31.75	
33 01 30 71-0051	LF	102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	303.32	
		For Up To 75, Add	64.07	
		For >75 To 150, Add	30.33	
		For >500 To 1,000, Deduct	-7.43	
		For >1,000 To 2,000, Deduct	-14.51	
		For >2,000 To 5,000, Deduct	-22.28	
		For >5,000, Deduct	-33.73	
33 01 30 71-0052	LF	108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	321.16	
		For Up To 75, Add	67.83	
		For >75 To 150, Add	32.12	
		For >500 To 1,000, Deduct	-7.86	
		For >1,000 To 2,000, Deduct	-15.37	
		For >2,000 To 5,000, Deduct	-23.59	
		For >5,000, Deduct	-35.72	
33 01 30 71-0053	LF	114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	339.01	
		For Up To 75, Add	71.61	
		For >75 To 150, Add	33.90	
		For >500 To 1,000, Deduct	-8.30	
		For >1,000 To 2,000, Deduct	-16.22	
		For >2,000 To 5,000, Deduct	-24.90	
		For >5,000, Deduct	-37.70	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0054 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	356.86	
For Up To 75, Add	75.38	
For >75 To 150, Add	35.69	
For >500 To 1,000, Deduct	-8.74	
For >1,000 To 2,000, Deduct	-17.08	
For >2,000 To 5,000, Deduct	-26.22	
For >5,000, Deduct	-39.69	
33 01 30 71-0055 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane	11.36	
33 01 30 71-0056 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0057 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	129.08	
For Up To 75, Add	27.08	
For >75 To 150, Add	12.91	
For >500 To 1,000, Deduct	-3.09	
For >1,000 To 2,000, Deduct	-6.05	
For >2,000 To 5,000, Deduct	-9.26	
For >5,000, Deduct	-14.17	
33 01 30 71-0058 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	150.60	
For Up To 75, Add	31.60	
For >75 To 150, Add	15.06	
For >500 To 1,000, Deduct	-3.60	
For >1,000 To 2,000, Deduct	-7.06	
For >2,000 To 5,000, Deduct	-10.81	
For >5,000, Deduct	-16.54	
33 01 30 71-0059 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	172.11	
For Up To 75, Add	36.11	
For >75 To 150, Add	17.21	
For >500 To 1,000, Deduct	-4.12	
For >1,000 To 2,000, Deduct	-8.06	
For >2,000 To 5,000, Deduct	-12.35	
For >5,000, Deduct	-18.90	
33 01 30 71-0060 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	193.62	
For Up To 75, Add	40.62	
For >75 To 150, Add	19.36	
For >500 To 1,000, Deduct	-4.63	
For >1,000 To 2,000, Deduct	-9.07	
For >2,000 To 5,000, Deduct	-13.89	
For >5,000, Deduct	-21.26	
33 01 30 71-0061 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	215.14	
For Up To 75, Add	45.14	
For >75 To 150, Add	21.51	
For >500 To 1,000, Deduct	-5.15	
For >1,000 To 2,000, Deduct	-10.08	
For >2,000 To 5,000, Deduct	-15.44	
For >5,000, Deduct	-23.62	
33 01 30 71-0062 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	236.64	
For Up To 75, Add	49.65	
For >75 To 150, Add	23.66	
For >500 To 1,000, Deduct	-5.66	
For >1,000 To 2,000, Deduct	-11.09	
For >2,000 To 5,000, Deduct	-16.98	
For >5,000, Deduct	-25.98	
33 01 30 71-0063 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	258.17	
For Up To 75, Add	54.16	
For >75 To 150, Add	25.82	
For >500 To 1,000, Deduct	-6.18	
For >1,000 To 2,000, Deduct	-12.10	
For >2,000 To 5,000, Deduct	-18.53	
For >5,000, Deduct	-28.35	
33 01 30 71-0064 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	279.68	
For Up To 75, Add	58.68	
For >75 To 150, Add	27.97	
For >500 To 1,000, Deduct	-6.69	
For >1,000 To 2,000, Deduct	-13.10	
For >2,000 To 5,000, Deduct	-20.07	
For >5,000, Deduct	-30.71	
33 01 30 71-0065 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	301.19	
For Up To 75, Add	63.19	
For >75 To 150, Add	30.12	
For >500 To 1,000, Deduct	-7.20	
For >1,000 To 2,000, Deduct	-14.11	
For >2,000 To 5,000, Deduct	-21.61	
For >5,000, Deduct	-33.07	
33 01 30 71-0066 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	322.70	
For Up To 75, Add	67.70	
For >75 To 150, Add	32.27	
For >500 To 1,000, Deduct	-7.72	
For >1,000 To 2,000, Deduct	-15.12	
For >2,000 To 5,000, Deduct	-23.15	
For >5,000, Deduct	-35.43	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0067	LF	96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	344.21	
		For Up To 75, Add	72.21	
		For >75 To 150, Add	34.42	
		For >500 To 1,000, Deduct	-8.23	
		For >1,000 To 2,000, Deduct	-16.13	
		For >2,000 To 5,000, Deduct	-24.70	
		For >5,000, Deduct	-37.79	
33 01 30 71-0068	LF	102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	365.72	
		For Up To 75, Add	76.73	
		For >75 To 150, Add	36.57	
		For >500 To 1,000, Deduct	-8.75	
		For >1,000 To 2,000, Deduct	-17.14	
		For >2,000 To 5,000, Deduct	-26.24	
		For >5,000, Deduct	-40.15	
33 01 30 71-0069	LF	108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	387.24	
		For Up To 75, Add	81.24	
		For >75 To 150, Add	38.72	
		For >500 To 1,000, Deduct	-9.26	
		For >1,000 To 2,000, Deduct	-18.14	
		For >2,000 To 5,000, Deduct	-27.79	
		For >5,000, Deduct	-42.52	
33 01 30 71-0070	LF	114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	408.76	
		For Up To 75, Add	85.76	
		For >75 To 150, Add	40.88	
		For >500 To 1,000, Deduct	-9.78	
		For >1,000 To 2,000, Deduct	-19.15	
		For >2,000 To 5,000, Deduct	-29.33	
		For >5,000, Deduct	-44.88	
33 01 30 71-0071	LF	120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	430.28	
		For Up To 75, Add	90.27	
		For >75 To 150, Add	43.03	
		For >500 To 1,000, Deduct	-10.29	
		For >1,000 To 2,000, Deduct	-20.16	
		For >2,000 To 5,000, Deduct	-30.87	
		For >5,000, Deduct	-47.24	
33 01 30 71-0072	SF	Structure Lining, Spray Applied With 250 mil Structural Polyurethane	13.69	
33 01 30 71-0073		Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0002)		
		Note: Two part structural polyurethane.		
33 01 30 71-0074	LF	36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	151.24	
		For Up To 75, Add	31.58	
		For >75 To 150, Add	15.12	
		For >500 To 1,000, Deduct	-3.56	
		For >1,000 To 2,000, Deduct	-6.98	
		For >2,000 To 5,000, Deduct	-10.67	
		For >5,000, Deduct	-16.45	
33 01 30 71-0075	LF	42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	176.46	
		For Up To 75, Add	36.84	
		For >75 To 150, Add	17.65	
		For >500 To 1,000, Deduct	-4.15	
		For >1,000 To 2,000, Deduct	-8.15	
		For >2,000 To 5,000, Deduct	-12.45	
		For >5,000, Deduct	-19.20	
33 01 30 71-0076	LF	48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	201.67	
		For Up To 75, Add	42.11	
		For >75 To 150, Add	20.17	
		For >500 To 1,000, Deduct	-4.74	
		For >1,000 To 2,000, Deduct	-9.31	
		For >2,000 To 5,000, Deduct	-14.23	
		For >5,000, Deduct	-21.94	
33 01 30 71-0077	LF	54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	226.87	
		For Up To 75, Add	47.37	
		For >75 To 150, Add	22.69	
		For >500 To 1,000, Deduct	-5.34	
		For >1,000 To 2,000, Deduct	-10.47	
		For >2,000 To 5,000, Deduct	-16.01	
		For >5,000, Deduct	-24.68	
33 01 30 71-0078	LF	60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	252.08	
		For Up To 75, Add	52.63	
		For >75 To 150, Add	25.21	
		For >500 To 1,000, Deduct	-5.93	
		For >1,000 To 2,000, Deduct	-11.64	
		For >2,000 To 5,000, Deduct	-17.79	
		For >5,000, Deduct	-27.43	
33 01 30 71-0079	LF	66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	277.30	
		For Up To 75, Add	57.90	
		For >75 To 150, Add	27.73	
		For >500 To 1,000, Deduct	-6.52	
		For >1,000 To 2,000, Deduct	-12.80	
		For >2,000 To 5,000, Deduct	-19.57	
		For >5,000, Deduct	-30.17	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0080 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	302.50	
For Up To 75, Add	63.16	
For >75 To 150, Add	30.25	
For >500 To 1,000, Deduct	-7.11	
For >1,000 To 2,000, Deduct	-13.96	
For >2,000 To 5,000, Deduct	-21.34	
For >5,000, Deduct	-32.91	
33 01 30 71-0081 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	327.71	
For Up To 75, Add	68.43	
For >75 To 150, Add	32.77	
For >500 To 1,000, Deduct	-7.71	
For >1,000 To 2,000, Deduct	-15.13	
For >2,000 To 5,000, Deduct	-23.12	
For >5,000, Deduct	-35.65	
33 01 30 71-0082 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	352.90	
For Up To 75, Add	73.68	
For >75 To 150, Add	35.29	
For >500 To 1,000, Deduct	-8.30	
For >1,000 To 2,000, Deduct	-16.29	
For >2,000 To 5,000, Deduct	-24.90	
For >5,000, Deduct	-38.39	
33 01 30 71-0083 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	378.13	
For Up To 75, Add	78.95	
For >75 To 150, Add	37.81	
For >500 To 1,000, Deduct	-8.89	
For >1,000 To 2,000, Deduct	-17.45	
For >2,000 To 5,000, Deduct	-26.68	
For >5,000, Deduct	-41.14	
33 01 30 71-0084 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	403.33	
For Up To 75, Add	84.21	
For >75 To 150, Add	40.33	
For >500 To 1,000, Deduct	-9.49	
For >1,000 To 2,000, Deduct	-18.62	
For >2,000 To 5,000, Deduct	-28.46	
For >5,000, Deduct	-43.88	
33 01 30 71-0085 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	428.54	
For Up To 75, Add	89.48	
For >75 To 150, Add	42.85	
For >500 To 1,000, Deduct	-10.08	
For >1,000 To 2,000, Deduct	-19.78	
For >2,000 To 5,000, Deduct	-30.24	
For >5,000, Deduct	-46.62	
33 01 30 71-0086 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	453.74	
For Up To 75, Add	94.74	
For >75 To 150, Add	45.37	
For >500 To 1,000, Deduct	-10.67	
For >1,000 To 2,000, Deduct	-20.94	
For >2,000 To 5,000, Deduct	-32.01	
For >5,000, Deduct	-49.37	
33 01 30 71-0087 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	478.97	
For Up To 75, Add	100.01	
For >75 To 150, Add	47.90	
For >500 To 1,000, Deduct	-11.27	
For >1,000 To 2,000, Deduct	-22.11	
For >2,000 To 5,000, Deduct	-33.80	
For >5,000, Deduct	-52.11	
33 01 30 71-0088 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	504.17	
For Up To 75, Add	105.27	
For >75 To 150, Add	50.42	
For >500 To 1,000, Deduct	-11.86	
For >1,000 To 2,000, Deduct	-23.27	
For >2,000 To 5,000, Deduct	-35.57	
For >5,000, Deduct	-54.85	
33 01 30 71-0089 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane	16.04	
33 01 30 71-0090 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0091 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	195.65	
For Up To 75, Add	40.61	
For >75 To 150, Add	19.57	
For >500 To 1,000, Deduct	-4.50	
For >1,000 To 2,000, Deduct	-8.86	
For >2,000 To 5,000, Deduct	-13.51	
For >5,000, Deduct	-21.04	
33 01 30 71-0092 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	228.26	
For Up To 75, Add	47.38	
For >75 To 150, Add	22.83	
For >500 To 1,000, Deduct	-5.26	
For >1,000 To 2,000, Deduct	-10.34	
For >2,000 To 5,000, Deduct	-15.77	
For >5,000, Deduct	-24.55	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0093	LF	48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	260.86	
		For Up To 75, Add	54.14	
		For >75 To 150, Add	26.09	
		For >500 To 1,000, Deduct	-6.01	
		For >1,000 To 2,000, Deduct	-11.81	
		For >2,000 To 5,000, Deduct	-18.02	
		For >5,000, Deduct	-28.06	
33 01 30 71-0094	LF	54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	293.47	
		For Up To 75, Add	60.91	
		For >75 To 150, Add	29.35	
		For >500 To 1,000, Deduct	-6.76	
		For >1,000 To 2,000, Deduct	-13.29	
		For >2,000 To 5,000, Deduct	-20.27	
		For >5,000, Deduct	-31.57	
33 01 30 71-0095	LF	60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	326.08	
		For Up To 75, Add	67.68	
		For >75 To 150, Add	32.61	
		For >500 To 1,000, Deduct	-7.51	
		For >1,000 To 2,000, Deduct	-14.77	
		For >2,000 To 5,000, Deduct	-22.52	
		For >5,000, Deduct	-35.07	
33 01 30 71-0096	LF	66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	358.69	
		For Up To 75, Add	74.45	
		For >75 To 150, Add	35.87	
		For >500 To 1,000, Deduct	-8.26	
		For >1,000 To 2,000, Deduct	-16.25	
		For >2,000 To 5,000, Deduct	-24.77	
		For >5,000, Deduct	-38.58	
33 01 30 71-0097	LF	72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	391.30	
		For Up To 75, Add	81.22	
		For >75 To 150, Add	39.13	
		For >500 To 1,000, Deduct	-9.01	
		For >1,000 To 2,000, Deduct	-17.72	
		For >2,000 To 5,000, Deduct	-27.03	
		For >5,000, Deduct	-42.09	
33 01 30 71-0098	LF	78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	423.90	
		For Up To 75, Add	87.98	
		For >75 To 150, Add	42.39	
		For >500 To 1,000, Deduct	-9.76	
		For >1,000 To 2,000, Deduct	-19.20	
		For >2,000 To 5,000, Deduct	-29.28	
		For >5,000, Deduct	-45.59	
33 01 30 71-0099	LF	84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	456.51	
		For Up To 75, Add	94.75	
		For >75 To 150, Add	45.65	
		For >500 To 1,000, Deduct	-10.51	
		For >1,000 To 2,000, Deduct	-20.68	
		For >2,000 To 5,000, Deduct	-31.53	
		For >5,000, Deduct	-49.10	
33 01 30 71-0100	LF	90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	489.13	
		For Up To 75, Add	101.52	
		For >75 To 150, Add	48.91	
		For >500 To 1,000, Deduct	-11.26	
		For >1,000 To 2,000, Deduct	-22.15	
		For >2,000 To 5,000, Deduct	-33.78	
		For >5,000, Deduct	-52.61	
33 01 30 71-0101	LF	96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	521.72	
		For Up To 75, Add	108.29	
		For >75 To 150, Add	52.17	
		For >500 To 1,000, Deduct	-12.01	
		For >1,000 To 2,000, Deduct	-23.63	
		For >2,000 To 5,000, Deduct	-36.03	
		For >5,000, Deduct	-56.11	
33 01 30 71-0102	LF	102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	554.34	
		For Up To 75, Add	115.06	
		For >75 To 150, Add	55.43	
		For >500 To 1,000, Deduct	-12.76	
		For >1,000 To 2,000, Deduct	-25.11	
		For >2,000 To 5,000, Deduct	-38.29	
		For >5,000, Deduct	-59.62	
33 01 30 71-0103	LF	108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	586.95	
		For Up To 75, Add	121.83	
		For >75 To 150, Add	58.70	
		For >500 To 1,000, Deduct	-13.51	
		For >1,000 To 2,000, Deduct	-26.58	
		For >2,000 To 5,000, Deduct	-40.54	
		For >5,000, Deduct	-63.13	
33 01 30 71-0104	LF	114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	619.56	
		For Up To 75, Add	128.59	
		For >75 To 150, Add	61.96	
		For >500 To 1,000, Deduct	-14.26	
		For >1,000 To 2,000, Deduct	-28.06	
		For >2,000 To 5,000, Deduct	-42.79	
		For >5,000, Deduct	-66.64	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0105 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	652.16	
For Up To 75, Add	135.36	
For >75 To 150, Add	65.22	
For >500 To 1,000, Deduct	-15.01	
For >1,000 To 2,000, Deduct	-29.54	
For >2,000 To 5,000, Deduct	-45.04	
For >5,000, Deduct	-70.14	
33 01 30 71-0106 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane	20.76	
33 01 30 71-0107 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0108 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	240.45	
For Up To 75, Add	49.73	
For >75 To 150, Add	24.05	
For >500 To 1,000, Deduct	-5.47	
For >1,000 To 2,000, Deduct	-10.77	
For >2,000 To 5,000, Deduct	-16.40	
For >5,000, Deduct	-25.69	
33 01 30 71-0109 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	280.52	
For Up To 75, Add	58.02	
For >75 To 150, Add	28.05	
For >500 To 1,000, Deduct	-6.38	
For >1,000 To 2,000, Deduct	-12.56	
For >2,000 To 5,000, Deduct	-19.13	
For >5,000, Deduct	-29.97	
33 01 30 71-0110 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	320.60	
For Up To 75, Add	66.31	
For >75 To 150, Add	32.06	
For >500 To 1,000, Deduct	-7.29	
For >1,000 To 2,000, Deduct	-14.36	
For >2,000 To 5,000, Deduct	-21.86	
For >5,000, Deduct	-34.25	
33 01 30 71-0111 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	360.68	
For Up To 75, Add	74.60	
For >75 To 150, Add	36.07	
For >500 To 1,000, Deduct	-8.20	
For >1,000 To 2,000, Deduct	-16.15	
For >2,000 To 5,000, Deduct	-24.60	
For >5,000, Deduct	-38.53	
33 01 30 71-0112 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	400.76	
For Up To 75, Add	82.89	
For >75 To 150, Add	40.08	
For >500 To 1,000, Deduct	-9.11	
For >1,000 To 2,000, Deduct	-17.95	
For >2,000 To 5,000, Deduct	-27.33	
For >5,000, Deduct	-42.81	
33 01 30 71-0113 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	440.83	
For Up To 75, Add	91.18	
For >75 To 150, Add	44.08	
For >500 To 1,000, Deduct	-10.02	
For >1,000 To 2,000, Deduct	-19.74	
For >2,000 To 5,000, Deduct	-30.06	
For >5,000, Deduct	-47.10	
33 01 30 71-0114 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	480.91	
For Up To 75, Add	99.47	
For >75 To 150, Add	48.09	
For >500 To 1,000, Deduct	-10.93	
For >1,000 To 2,000, Deduct	-21.54	
For >2,000 To 5,000, Deduct	-32.80	
For >5,000, Deduct	-51.38	
33 01 30 71-0115 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	520.98	
For Up To 75, Add	107.76	
For >75 To 150, Add	52.10	
For >500 To 1,000, Deduct	-11.84	
For >1,000 To 2,000, Deduct	-23.33	
For >2,000 To 5,000, Deduct	-35.53	
For >5,000, Deduct	-55.66	
33 01 30 71-0116 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	561.05	
For Up To 75, Add	116.04	
For >75 To 150, Add	56.11	
For >500 To 1,000, Deduct	-12.75	
For >1,000 To 2,000, Deduct	-25.13	
For >2,000 To 5,000, Deduct	-38.26	
For >5,000, Deduct	-59.94	
33 01 30 71-0117 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	601.14	
For Up To 75, Add	124.34	
For >75 To 150, Add	60.11	
For >500 To 1,000, Deduct	-13.67	
For >1,000 To 2,000, Deduct	-26.92	
For >2,000 To 5,000, Deduct	-41.00	
For >5,000, Deduct	-64.22	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0118 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	641.21	
For Up To 75, Add	132.62	
For >75 To 150, Add	64.12	
For >500 To 1,000, Deduct	-14.58	
For >1,000 To 2,000, Deduct	-28.72	
For >2,000 To 5,000, Deduct	-43.73	
For >5,000, Deduct	-68.50	
33 01 30 71-0119 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	681.28	
For Up To 75, Add	140.91	
For >75 To 150, Add	68.13	
For >500 To 1,000, Deduct	-15.49	
For >1,000 To 2,000, Deduct	-30.51	
For >2,000 To 5,000, Deduct	-46.46	
For >5,000, Deduct	-72.78	
33 01 30 71-0120 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	721.35	
For Up To 75, Add	149.20	
For >75 To 150, Add	72.14	
For >500 To 1,000, Deduct	-16.40	
For >1,000 To 2,000, Deduct	-32.30	
For >2,000 To 5,000, Deduct	-49.20	
For >5,000, Deduct	-77.06	
33 01 30 71-0121 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	761.43	
For Up To 75, Add	157.49	
For >75 To 150, Add	76.14	
For >500 To 1,000, Deduct	-17.31	
For >1,000 To 2,000, Deduct	-34.10	
For >2,000 To 5,000, Deduct	-51.93	
For >5,000, Deduct	-81.35	
33 01 30 71-0122 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	801.50	
For Up To 75, Add	165.78	
For >75 To 150, Add	80.15	
For >500 To 1,000, Deduct	-18.22	
For >1,000 To 2,000, Deduct	-35.89	
For >2,000 To 5,000, Deduct	-54.66	
For >5,000, Deduct	-85.63	
33 01 30 71-0123 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane	25.51	

33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)

33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)

Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Set-Up And Reinsertion For Cured In-Place Pipe (CIPP) Lining (33 01 30 72-0001)

33 01 30 72-0003 EA Initial Set-up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	1,829.18
33 01 30 72-0004 EA Initial Set-up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	3,048.64
33 01 30 72-0005 EA Initial Set-up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	4,572.95
33 01 30 72-0006 EA Initial Set-up And Final Equipment Removal For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	6,097.28
33 01 30 72-0007 EA Move And Set-up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	914.59
33 01 30 72-0008 EA Move And Set-up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	1,524.31
33 01 30 72-0009 EA Move And Set-up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	1,905.40
33 01 30 72-0010 EA Move And Set-up At Different Access/Location For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	2,438.91
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	1,524.31
Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	3,658.36
Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	6,097.28
Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" Underground Pipelines Cured In-Place Pipe (CIPP) Trenchless Rehabilitation	9,145.91
Note: Need to mix wet material in bag prior to installation.	

33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP)

Trenchless Rehabilitation (33 01 30 72-0001)

Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.

33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0017 LF 4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	26.99	
For Vinylester Resin, Add	7.69	
For Epoxy Resin, Add	0.91	
For Up To >10, Add	53.52	
For >10 To 25, Add	42.77	
For >25 To 50, Add	26.21	
For >50 To 100, Add	13.11	
For >500 To 1,000, Deduct	-1.75	
For >1,000 To 2,000, Deduct	-2.82	
For >2,000 To 5,000, Deduct	-5.32	
For >5,000, Deduct	-8.60	
33 01 30 72-0018 LF 4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	33.02	
For Vinylester Resin, Add	11.91	
For Epoxy Resin, Add	1.40	
For Up To >10, Add	56.54	
For >10 To 25, Add	44.28	
For >25 To 50, Add	27.42	
For >50 To 100, Add	13.71	
For >500 To 1,000, Deduct	-2.05	
For >1,000 To 2,000, Deduct	-3.28	
For >2,000 To 5,000, Deduct	-6.04	
For >5,000, Deduct	-9.81	
33 01 30 72-0019 LF 4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	39.04	
For Vinylester Resin, Add	16.12	
For Epoxy Resin, Add	1.90	
For Up To >10, Add	59.55	
For >10 To 25, Add	45.78	
For >25 To 50, Add	28.62	
For >50 To 100, Add	14.31	
For >500 To 1,000, Deduct	-2.35	
For >1,000 To 2,000, Deduct	-3.73	
For >2,000 To 5,000, Deduct	-6.77	
For >5,000, Deduct	-11.01	
33 01 30 72-0020 LF 4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	52.61	
For Vinylester Resin, Add	24.56	
For Epoxy Resin, Add	2.89	
For Up To >10, Add	70.13	
For >10 To 25, Add	52.60	
For >25 To 50, Add	33.31	
For >50 To 100, Add	16.66	
For >500 To 1,000, Deduct	-3.07	
For >1,000 To 2,000, Deduct	-4.82	
For >2,000 To 5,000, Deduct	-8.59	
For >5,000, Deduct	-14.03	
33 01 30 72-0021 LF 4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	66.19	
For Vinylester Resin, Add	32.99	
For Epoxy Resin, Add	3.89	
For Up To >10, Add	80.75	
For >10 To 25, Add	59.43	
For >25 To 50, Add	38.02	
For >50 To 100, Add	19.01	
For >500 To 1,000, Deduct	-3.79	
For >1,000 To 2,000, Deduct	-5.92	
For >2,000 To 5,000, Deduct	-10.42	
For >5,000, Deduct	-17.05	
33 01 30 72-0022 6mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0023 LF 6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	38.21	
For Vinylester Resin, Add	15.54	
For Epoxy Resin, Add	1.83	
For Up To >10, Add	59.13	
For >10 To 25, Add	45.58	
For >25 To 50, Add	28.46	
For >50 To 100, Add	14.23	
For >500 To 1,000, Deduct	-2.31	
For >1,000 To 2,000, Deduct	-3.67	
For >2,000 To 5,000, Deduct	-6.67	
For >5,000, Deduct	-10.84	
33 01 30 72-0024 LF 6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	46.24	
For Vinylester Resin, Add	21.16	
For Epoxy Resin, Add	2.49	
For Up To >10, Add	63.15	
For >10 To 25, Add	47.58	
For >25 To 50, Add	30.06	
For >50 To 100, Add	15.03	
For >500 To 1,000, Deduct	-2.71	
For >1,000 To 2,000, Deduct	-4.27	
For >2,000 To 5,000, Deduct	-7.63	
For >5,000, Deduct	-12.45	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0025	LF		6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	63.83	
			For Vinylester Resin, Add	32.41	
			For Epoxy Resin, Add	3.82	
			For Up To >10, Add	75.74	
			For >10 To 25, Add	55.40	
			For >25 To 50, Add	35.56	
			For >50 To 100, Add	17.78	
			For >500 To 1,000, Deduct	-3.63	
			For >1,000 To 2,000, Deduct	-5.66	
			For >2,000 To 5,000, Deduct	-9.94	
			For >5,000, Deduct	-16.27	
33 01 30 72-0026	LF		6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	81.42	
			For Vinylester Resin, Add	43.65	
			For Epoxy Resin, Add	5.14	
			For Up To >10, Add	88.36	
			For >10 To 25, Add	63.24	
			For >25 To 50, Add	41.06	
			For >50 To 100, Add	20.53	
			For >500 To 1,000, Deduct	-4.55	
			For >1,000 To 2,000, Deduct	-7.06	
			For >2,000 To 5,000, Deduct	-12.25	
			For >5,000, Deduct	-20.10	
33 01 30 72-0027	LF		6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	99.16	
			For Vinylester Resin, Add	54.90	
			For Epoxy Resin, Add	6.47	
			For Up To >10, Add	101.41	
			For >10 To 25, Add	71.43	
			For >25 To 50, Add	46.78	
			For >50 To 100, Add	23.39	
			For >500 To 1,000, Deduct	-5.48	
			For >1,000 To 2,000, Deduct	-8.47	
			For >2,000 To 5,000, Deduct	-14.59	
			For >5,000, Deduct	-23.98	
33 01 30 72-0028	LF		6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	117.35	
			For Vinylester Resin, Add	66.14	
			For Epoxy Resin, Add	7.80	
			For Up To >10, Add	115.83	
			For >10 To 25, Add	80.77	
			For >25 To 50, Add	53.19	
			For >50 To 100, Add	26.59	
			For >500 To 1,000, Deduct	-6.44	
			For >1,000 To 2,000, Deduct	-9.94	
			For >2,000 To 5,000, Deduct	-17.05	
			For >5,000, Deduct	-28.04	
33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0030	LF		7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	53.21	
			For Vinylester Resin, Add	26.04	
			For Epoxy Resin, Add	3.07	
			For Up To >10, Add	66.63	
			For >10 To 25, Add	49.33	
			For >25 To 50, Add	31.46	
			For >50 To 100, Add	15.73	
			For >500 To 1,000, Deduct	-3.06	
			For >1,000 To 2,000, Deduct	-4.79	
			For >2,000 To 5,000, Deduct	-8.47	
			For >5,000, Deduct	-13.84	
33 01 30 72-0031	LF		7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	74.81	
			For Vinylester Resin, Add	40.10	
			For Epoxy Resin, Add	4.73	
			For Up To >10, Add	81.23	
			For >10 To 25, Add	58.15	
			For >25 To 50, Add	37.75	
			For >50 To 100, Add	18.88	
			For >500 To 1,000, Deduct	-4.18	
			For >1,000 To 2,000, Deduct	-6.49	
			For >2,000 To 5,000, Deduct	-11.26	
			For >5,000, Deduct	-18.47	
33 01 30 72-0032	LF		7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	96.42	
			For Vinylester Resin, Add	54.15	
			For Epoxy Resin, Add	6.38	
			For Up To >10, Add	95.86	
			For >10 To 25, Add	66.99	
			For >25 To 50, Add	44.06	
			For >50 To 100, Add	22.03	
			For >500 To 1,000, Deduct	-5.30	
			For >1,000 To 2,000, Deduct	-8.18	
			For >2,000 To 5,000, Deduct	-14.05	
			For >5,000, Deduct	-23.10	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	118.17	
For Vinylester Resin, Add	68.21	
For Epoxy Resin, Add	8.04	
For Up To >10, Add	110.91	
For >10 To 25, Add	76.19	
For >25 To 50, Add	50.58	
For >50 To 100, Add	25.29	
For >500 To 1,000, Deduct	-6.43	
For >1,000 To 2,000, Deduct	-9.90	
For >2,000 To 5,000, Deduct	-16.88	
For >5,000, Deduct	-27.78	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	140.38	
For Vinylester Resin, Add	82.26	
For Epoxy Resin, Add	9.70	
For Up To >10, Add	127.34	
For >10 To 25, Add	86.53	
For >25 To 50, Add	57.79	
For >50 To 100, Add	28.90	
For >500 To 1,000, Deduct	-7.59	
For >1,000 To 2,000, Deduct	-11.67	
For >2,000 To 5,000, Deduct	-19.82	
For >5,000, Deduct	-32.65	
33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	173.55	
For Vinylester Resin, Add	103.35	
For Epoxy Resin, Add	12.18	
For Up To >10, Add	151.55	
For >10 To 25, Add	101.69	
For >25 To 50, Add	68.39	
For >50 To 100, Add	34.20	
For >500 To 1,000, Deduct	-9.33	
For >1,000 To 2,000, Deduct	-14.31	
For >2,000 To 5,000, Deduct	-24.19	
For >5,000, Deduct	-39.89	
33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	207.03	
For Vinylester Resin, Add	124.43	
For Epoxy Resin, Add	14.67	
For Up To >10, Add	176.69	
For >10 To 25, Add	117.62	
For >25 To 50, Add	79.46	
For >50 To 100, Add	39.73	
For >500 To 1,000, Deduct	-11.08	
For >1,000 To 2,000, Deduct	-16.99	
For >2,000 To 5,000, Deduct	-28.65	
For >5,000, Deduct	-47.26	
33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	85.55	
For Vinylester Resin, Add	47.61	
For Epoxy Resin, Add	5.61	
For Up To >10, Add	86.60	
For >10 To 25, Add	60.83	
For >25 To 50, Add	39.90	
For >50 To 100, Add	19.95	
For >500 To 1,000, Deduct	-4.72	
For >1,000 To 2,000, Deduct	-7.29	
For >2,000 To 5,000, Deduct	-12.54	
For >5,000, Deduct	-20.62	
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	111.18	
For Vinylester Resin, Add	64.48	
For Epoxy Resin, Add	7.60	
For Up To >10, Add	103.24	
For >10 To 25, Add	70.68	
For >25 To 50, Add	47.01	
For >50 To 100, Add	23.51	
For >500 To 1,000, Deduct	-6.04	
For >1,000 To 2,000, Deduct	-9.29	
For >2,000 To 5,000, Deduct	-15.82	
For >5,000, Deduct	-26.05	
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	136.95	
For Vinylester Resin, Add	81.35	
For Epoxy Resin, Add	9.59	
For Up To >10, Add	120.30	
For >10 To 25, Add	80.88	
For >25 To 50, Add	54.34	
For >50 To 100, Add	27.17	
For >500 To 1,000, Deduct	-7.37	
For >1,000 To 2,000, Deduct	-11.31	
For >2,000 To 5,000, Deduct	-19.13	
For >5,000, Deduct	-31.54	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0041	LF		9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	163.17	
			For Vinylester Resin, Add	98.22	
			For Epoxy Resin, Add	11.58	
			For Up To >10, Add	138.74	
			For >10 To 25, Add	92.23	
			For >25 To 50, Add	62.35	
			For >50 To 100, Add	31.18	
			For >500 To 1,000, Deduct	-8.73	
			For >1,000 To 2,000, Deduct	-13.38	
			For >2,000 To 5,000, Deduct	-22.55	
			For >5,000, Deduct	-37.21	
33 01 30 72-0042	LF		9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	202.37	
			For Vinylester Resin, Add	123.52	
			For Epoxy Resin, Add	14.56	
			For Up To >10, Add	165.96	
			For >10 To 25, Add	108.89	
			For >25 To 50, Add	74.16	
			For >50 To 100, Add	37.08	
			For >500 To 1,000, Deduct	-10.77	
			For >1,000 To 2,000, Deduct	-16.47	
			For >2,000 To 5,000, Deduct	-27.65	
			For >5,000, Deduct	-45.66	
33 01 30 72-0043	LF		9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	241.87	
			For Vinylester Resin, Add	148.82	
			For Epoxy Resin, Add	17.54	
			For Up To >10, Add	194.11	
			For >10 To 25, Add	126.33	
			For >25 To 50, Add	86.43	
			For >50 To 100, Add	43.21	
			For >500 To 1,000, Deduct	-12.83	
			For >1,000 To 2,000, Deduct	-19.60	
			For >2,000 To 5,000, Deduct	-32.83	
			For >5,000, Deduct	-54.23	
33 01 30 72-0044	LF		9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	280.46	
			For Vinylester Resin, Add	174.13	
			For Epoxy Resin, Add	20.52	
			For Up To >10, Add	219.51	
			For >10 To 25, Add	141.46	
			For >25 To 50, Add	97.32	
			For >50 To 100, Add	48.66	
			For >500 To 1,000, Deduct	-14.62	
			For >1,000 To 2,000, Deduct	-22.62	
			For >2,000 To 5,000, Deduct	-37.78	
			For >5,000, Deduct	-62.43	
33 01 30 72-0045	LF		9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	319.50	
			For Vinylester Resin, Add	199.43	
			For Epoxy Resin, Add	23.50	
			For Up To >10, Add	246.25	
			For >10 To 25, Add	157.73	
			For >25 To 50, Add	108.88	
			For >50 To 100, Add	54.44	
			For >500 To 1,000, Deduct	-16.84	
			For >1,000 To 2,000, Deduct	-25.69	
			For >2,000 To 5,000, Deduct	-42.84	
			For >5,000, Deduct	-70.82	
33 01 30 72-0046			10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0047	LF		10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	230.95	
			For Vinylester Resin, Add	143.53	
			For Epoxy Resin, Add	16.92	
			For Up To >10, Add	180.25	
			For >10 To 25, Add	116.04	
			For >25 To 50, Add	79.87	
			For >50 To 100, Add	39.94	
			For >500 To 1,000, Deduct	-12.20	
			For >1,000 To 2,000, Deduct	-18.62	
			For >2,000 To 5,000, Deduct	-31.08	
			For >5,000, Deduct	-51.37	
33 01 30 72-0048	LF		10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	276.47	
			For Vinylester Resin, Add	173.04	
			For Epoxy Resin, Add	20.39	
			For Up To >10, Add	211.41	
			For >10 To 25, Add	134.98	
			For >25 To 50, Add	93.35	
			For >50 To 100, Add	46.67	
			For >500 To 1,000, Deduct	-14.56	
			For >1,000 To 2,000, Deduct	-22.20	
			For >2,000 To 5,000, Deduct	-36.98	
			For >5,000, Deduct	-61.15	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0049 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	321.09	
For Vinylester Resin, Add	202.57	
For Epoxy Resin, Add	23.87	
For Up To >10, Add	239.82	
For >10 To 25, Add	151.62	
For >25 To 50, Add	105.44	
For >50 To 100, Add	52.72	
For >500 To 1,000, Deduct	-16.85	
For >1,000 To 2,000, Deduct	-25.67	
For >2,000 To 5,000, Deduct	-42.65	
For >5,000, Deduct	-70.56	
33 01 30 72-0050 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	366.15	
For Vinylester Resin, Add	232.09	
For Epoxy Resin, Add	27.35	
For Up To >10, Add	269.58	
For >10 To 25, Add	169.39	
For >25 To 50, Add	118.21	
For >50 To 100, Add	59.11	
For >500 To 1,000, Deduct	-19.17	
For >1,000 To 2,000, Deduct	-29.19	
For >2,000 To 5,000, Deduct	-48.44	
For >5,000, Deduct	-80.15	
33 01 30 72-0051 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	411.82	
For Vinylester Resin, Add	261.60	
For Epoxy Resin, Add	30.83	
For Up To >10, Add	301.19	
For >10 To 25, Add	188.70	
For >25 To 50, Add	131.91	
For >50 To 100, Add	65.95	
For >500 To 1,000, Deduct	-21.54	
For >1,000 To 2,000, Deduct	-32.79	
For >2,000 To 5,000, Deduct	-54.37	
For >5,000, Deduct	-89.99	
33 01 30 72-0052 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	458.27	
For Vinylester Resin, Add	291.12	
For Epoxy Resin, Add	34.31	
For Up To >10, Add	335.09	
For >10 To 25, Add	209.92	
For >25 To 50, Add	146.75	
For >50 To 100, Add	73.37	
For >500 To 1,000, Deduct	-23.97	
For >1,000 To 2,000, Deduct	-36.49	
For >2,000 To 5,000, Deduct	-60.50	
For >5,000, Deduct	-100.13	
33 01 30 72-0053 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	547.94	
For Vinylester Resin, Add	350.16	
For Epoxy Resin, Add	41.27	
For Up To >10, Add	393.25	
For >10 To 25, Add	244.33	
For >25 To 50, Add	171.61	
For >50 To 100, Add	85.81	
For >500 To 1,000, Deduct	-28.59	
For >1,000 To 2,000, Deduct	-43.48	
For >2,000 To 5,000, Deduct	-71.96	
For >5,000, Deduct	-119.13	
33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	259.29	
For Vinylester Resin, Add	163.37	
For Epoxy Resin, Add	19.25	
For Up To >10, Add	194.42	
For >10 To 25, Add	123.12	
For >25 To 50, Add	85.54	
For >50 To 100, Add	42.77	
For >500 To 1,000, Deduct	-13.61	
For >1,000 To 2,000, Deduct	-20.74	
For >2,000 To 5,000, Deduct	-34.48	
For >5,000, Deduct	-57.04	
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	310.85	
For Vinylester Resin, Add	197.11	
For Epoxy Resin, Add	23.23	
For Up To >10, Add	228.60	
For >10 To 25, Add	143.57	
For >25 To 50, Add	100.22	
For >50 To 100, Add	50.11	
For >500 To 1,000, Deduct	-16.27	
For >1,000 To 2,000, Deduct	-24.78	
For >2,000 To 5,000, Deduct	-41.11	
For >5,000, Deduct	-68.02	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0057	LF		12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	361.48	
			For Vinylester Resin, Add	230.84	
			For Epoxy Resin, Add	27.21	
			For Up To >10, Add	260.02	
			For >10 To 25, Add	161.72	
			For >25 To 50, Add	113.52	
			For >50 To 100, Add	56.76	
			For >500 To 1,000, Deduct	-18.87	
			For >1,000 To 2,000, Deduct	-28.70	
			For >2,000 To 5,000, Deduct	-47.50	
			For >5,000, Deduct	-78.64	
33 01 30 72-0058	LF		12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	412.56	
			For Vinylester Resin, Add	264.57	
			For Epoxy Resin, Add	31.18	
			For Up To >10, Add	292.78	
			For >10 To 25, Add	180.99	
			For >25 To 50, Add	127.49	
			For >50 To 100, Add	63.75	
			For >500 To 1,000, Deduct	-21.49	
			For >1,000 To 2,000, Deduct	-32.67	
			For >2,000 To 5,000, Deduct	-54.01	
			For >5,000, Deduct	-89.43	
33 01 30 72-0059	LF		12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	464.27	
			For Vinylester Resin, Add	298.31	
			For Epoxy Resin, Add	35.16	
			For Up To >10, Add	327.41	
			For >10 To 25, Add	201.82	
			For >25 To 50, Add	142.40	
			For >50 To 100, Add	71.20	
			For >500 To 1,000, Deduct	-24.17	
			For >1,000 To 2,000, Deduct	-36.73	
			For >2,000 To 5,000, Deduct	-60.67	
			For >5,000, Deduct	-100.48	
33 01 30 72-0060	LF		12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	516.73	
			For Vinylester Resin, Add	332.05	
			For Epoxy Resin, Add	39.13	
			For Up To >10, Add	364.32	
			For >10 To 25, Add	224.54	
			For >25 To 50, Add	158.44	
			For >50 To 100, Add	79.22	
			For >500 To 1,000, Deduct	-26.90	
			For >1,000 To 2,000, Deduct	-40.87	
			For >2,000 To 5,000, Deduct	-67.52	
			For >5,000, Deduct	-111.82	
33 01 30 72-0061	LF		12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	618.45	
			For Vinylester Resin, Add	399.52	
			For Epoxy Resin, Add	47.09	
			For Up To >10, Add	428.50	
			For >10 To 25, Add	261.96	
			For >25 To 50, Add	185.71	
			For >50 To 100, Add	92.86	
			For >500 To 1,000, Deduct	-32.12	
			For >1,000 To 2,000, Deduct	-48.77	
			For >2,000 To 5,000, Deduct	-80.42	
			For >5,000, Deduct	-133.23	
33 01 30 72-0062	LF		12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	721.55	
			For Vinylester Resin, Add	466.99	
			For Epoxy Resin, Add	55.04	
			For Up To >10, Add	496.83	
			For >10 To 25, Add	302.83	
			For >25 To 50, Add	215.06	
			For >50 To 100, Add	107.53	
			For >500 To 1,000, Deduct	-37.44	
			For >1,000 To 2,000, Deduct	-56.84	
			For >2,000 To 5,000, Deduct	-93.66	
			For >5,000, Deduct	-155.19	
33 01 30 72-0063	LF		12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	827.07	
			For Vinylester Resin, Add	534.46	
			For Epoxy Resin, Add	62.99	
			For Up To >10, Add	572.44	
			For >10 To 25, Add	349.78	
			For >25 To 50, Add	248.04	
			For >50 To 100, Add	124.02	
			For >500 To 1,000, Deduct	-42.94	
			For >1,000 To 2,000, Deduct	-65.21	
			For >2,000 To 5,000, Deduct	-107.51	
			For >5,000, Deduct	-178.13	

33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0065 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	287.39	
For Vinylester Resin, Add	183.04	
For Epoxy Resin, Add	21.57	
For Up To >10, Add	208.47	
For >10 To 25, Add	130.15	
For >25 To 50, Add	91.16	
For >50 To 100, Add	45.58	
For >500 To 1,000, Deduct	-15.02	
For >1,000 To 2,000, Deduct	-22.85	
For >2,000 To 5,000, Deduct	-37.86	
For >5,000, Deduct	-62.66	
33 01 30 72-0066 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	344.98	
For Vinylester Resin, Add	221.00	
For Epoxy Resin, Add	26.05	
For Up To >10, Add	245.67	
For >10 To 25, Add	152.10	
For >25 To 50, Add	107.05	
For >50 To 100, Add	53.52	
For >500 To 1,000, Deduct	-17.98	
For >1,000 To 2,000, Deduct	-27.34	
For >2,000 To 5,000, Deduct	-45.20	
For >5,000, Deduct	-74.85	
33 01 30 72-0067 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	401.64	
For Vinylester Resin, Add	258.95	
For Epoxy Resin, Add	30.52	
For Up To >10, Add	280.10	
For >10 To 25, Add	171.76	
For >25 To 50, Add	121.55	
For >50 To 100, Add	60.78	
For >500 To 1,000, Deduct	-20.87	
For >1,000 To 2,000, Deduct	-31.71	
For >2,000 To 5,000, Deduct	-52.32	
For >5,000, Deduct	-86.67	
33 01 30 72-0068 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	458.74	
For Vinylester Resin, Add	296.90	
For Epoxy Resin, Add	34.99	
For Up To >10, Add	315.87	
For >10 To 25, Add	192.54	
For >25 To 50, Add	136.73	
For >50 To 100, Add	68.36	
For >500 To 1,000, Deduct	-23.80	
For >1,000 To 2,000, Deduct	-36.14	
For >2,000 To 5,000, Deduct	-59.55	
For >5,000, Deduct	-98.67	
33 01 30 72-0069 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	516.47	
For Vinylester Resin, Add	334.85	
For Epoxy Resin, Add	39.46	
For Up To >10, Add	353.51	
For >10 To 25, Add	214.87	
For >25 To 50, Add	152.84	
For >50 To 100, Add	76.42	
For >500 To 1,000, Deduct	-26.78	
For >1,000 To 2,000, Deduct	-40.64	
For >2,000 To 5,000, Deduct	-66.93	
For >5,000, Deduct	-110.92	
33 01 30 72-0070 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	574.96	
For Vinylester Resin, Add	372.81	
For Epoxy Resin, Add	43.94	
For Up To >10, Add	393.43	
For >10 To 25, Add	239.10	
For >25 To 50, Add	170.09	
For >50 To 100, Add	85.04	
For >500 To 1,000, Deduct	-29.81	
For >1,000 To 2,000, Deduct	-45.24	
For >2,000 To 5,000, Deduct	-74.50	
For >5,000, Deduct	-123.47	
33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	688.72	
For Vinylester Resin, Add	448.71	
For Epoxy Resin, Add	52.88	
For Up To >10, Add	463.64	
For >10 To 25, Add	279.53	
For >25 To 50, Add	199.77	
For >50 To 100, Add	99.88	
For >500 To 1,000, Deduct	-35.63	
For >1,000 To 2,000, Deduct	-54.04	
For >2,000 To 5,000, Deduct	-88.85	
For >5,000, Deduct	-147.29	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0072	LF		13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	803.87	
			For Vinylester Resin, Add	524.62	
			For Epoxy Resin, Add	61.63	
			For Up To >10, Add	537.99	
			For >10 To 25, Add	323.41	
			For >25 To 50, Add	231.52	
			For >50 To 100, Add	115.76	
			For >500 To 1,000, Deduct	-41.55	
			For >1,000 To 2,000, Deduct	-63.01	
			For >2,000 To 5,000, Deduct	-103.54	
			For >5,000, Deduct	-171.66	
33 01 30 72-0073	LF		13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	921.44	
			For Vinylester Resin, Add	600.52	
			For Epoxy Resin, Add	70.78	
			For Up To >10, Add	619.62	
			For >10 To 25, Add	373.37	
			For >25 To 50, Add	266.92	
			For >50 To 100, Add	133.46	
			For >500 To 1,000, Deduct	-47.66	
			For >1,000 To 2,000, Deduct	-72.29	
			For >2,000 To 5,000, Deduct	-118.84	
			For >5,000, Deduct	-197.00	
33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0075	LF		15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	315.26	
			For Vinylester Resin, Add	202.55	
			For Epoxy Resin, Add	23.87	
			For Up To >10, Add	222.41	
			For >10 To 25, Add	137.11	
			For >25 To 50, Add	96.74	
			For >50 To 100, Add	48.37	
			For >500 To 1,000, Deduct	-16.41	
			For >1,000 To 2,000, Deduct	-24.94	
			For >2,000 To 5,000, Deduct	-41.20	
			For >5,000, Deduct	-68.23	
33 01 30 72-0076	LF		15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	378.87	
			For Vinylester Resin, Add	244.72	
			For Epoxy Resin, Add	28.84	
			For Up To >10, Add	262.61	
			For >10 To 25, Add	160.58	
			For >25 To 50, Add	113.83	
			For >50 To 100, Add	56.91	
			For >500 To 1,000, Deduct	-19.68	
			For >1,000 To 2,000, Deduct	-29.88	
			For >2,000 To 5,000, Deduct	-49.27	
			For >5,000, Deduct	-81.63	
33 01 30 72-0077	LF		15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	441.55	
			For Vinylester Resin, Add	286.89	
			For Epoxy Resin, Add	33.81	
			For Up To >10, Add	300.05	
			For >10 To 25, Add	181.74	
			For >25 To 50, Add	129.53	
			For >50 To 100, Add	64.77	
			For >500 To 1,000, Deduct	-22.87	
			For >1,000 To 2,000, Deduct	-34.70	
			For >2,000 To 5,000, Deduct	-57.11	
			For >5,000, Deduct	-94.65	
33 01 30 72-0078	LF		15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	504.68	
			For Vinylester Resin, Add	329.06	
			For Epoxy Resin, Add	38.78	
			For Up To >10, Add	338.84	
			For >10 To 25, Add	204.02	
			For >25 To 50, Add	145.92	
			For >50 To 100, Add	72.96	
			For >500 To 1,000, Deduct	-26.10	
			For >1,000 To 2,000, Deduct	-39.58	
			For >2,000 To 5,000, Deduct	-65.06	
			For >5,000, Deduct	-107.86	
33 01 30 72-0079	LF		15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	568.43	
			For Vinylester Resin, Add	371.22	
			For Epoxy Resin, Add	43.75	
			For Up To >10, Add	379.49	
			For >10 To 25, Add	227.86	
			For >25 To 50, Add	163.23	
			For >50 To 100, Add	81.61	
			For >500 To 1,000, Deduct	-29.37	
			For >1,000 To 2,000, Deduct	-44.54	
			For >2,000 To 5,000, Deduct	-73.17	
			For >5,000, Deduct	-121.31	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0080 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	632.95	
For Vinylester Resin, Add	413.40	
For Epoxy Resin, Add	48.72	
For Up To >10, Add	422.43	
For >10 To 25, Add	253.59	
For >25 To 50, Add	181.68	
For >50 To 100, Add	90.84	
For >500 To 1,000, Deduct	-32.71	
For >1,000 To 2,000, Deduct	-49.59	
For >2,000 To 5,000, Deduct	-81.46	
For >5,000, Deduct	-135.07	
33 01 30 72-0081 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	758.76	
For Vinylester Resin, Add	497.74	
For Epoxy Resin, Add	58.66	
For Up To >10, Add	498.66	
For >10 To 25, Add	297.04	
For >25 To 50, Add	213.78	
For >50 To 100, Add	106.89	
For >500 To 1,000, Deduct	-39.13	
For >1,000 To 2,000, Deduct	-59.29	
For >2,000 To 5,000, Deduct	-97.25	
For >5,000, Deduct	-161.29	
33 01 30 72-0082 LF 15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	885.96	
For Vinylester Resin, Add	582.08	
For Epoxy Resin, Add	68.60	
For Up To >10, Add	579.03	
For >10 To 25, Add	343.94	
For >25 To 50, Add	247.94	
For >50 To 100, Add	123.97	
For >500 To 1,000, Deduct	-45.66	
For >1,000 To 2,000, Deduct	-69.17	
For >2,000 To 5,000, Deduct	-113.39	
For >5,000, Deduct	-188.08	
33 01 30 72-0083 LF 15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,015.58	
For Vinylester Resin, Add	666.41	
For Epoxy Resin, Add	78.54	
For Up To >10, Add	666.69	
For >10 To 25, Add	396.91	
For >25 To 50, Add	285.74	
For >50 To 100, Add	142.87	
For >500 To 1,000, Deduct	-52.37	
For >1,000 To 2,000, Deduct	-79.35	
For >2,000 To 5,000, Deduct	-130.13	
For >5,000, Deduct	-215.83	
33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0085 LF 16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	412.52	
For Vinylester Resin, Add	268.28	
For Epoxy Resin, Add	31.62	
For Up To >10, Add	279.44	
For >10 To 25, Add	168.99	
For >25 To 50, Add	120.56	
For >50 To 100, Add	60.28	
For >500 To 1,000, Deduct	-21.36	
For >1,000 To 2,000, Deduct	-32.40	
For >2,000 To 5,000, Deduct	-53.31	
For >5,000, Deduct	-88.36	
33 01 30 72-0086 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	481.23	
For Vinylester Resin, Add	314.66	
For Epoxy Resin, Add	37.09	
For Up To >10, Add	319.89	
For >10 To 25, Add	191.66	
For >25 To 50, Add	137.47	
For >50 To 100, Add	68.73	
For >500 To 1,000, Deduct	-24.85	
For >1,000 To 2,000, Deduct	-37.68	
For >2,000 To 5,000, Deduct	-61.87	
For >5,000, Deduct	-102.59	
33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	550.38	
For Vinylester Resin, Add	361.05	
For Epoxy Resin, Add	42.55	
For Up To >10, Add	361.69	
For >10 To 25, Add	215.45	
For >25 To 50, Add	155.06	
For >50 To 100, Add	77.53	
For >500 To 1,000, Deduct	-28.38	
For >1,000 To 2,000, Deduct	-43.01	
For >2,000 To 5,000, Deduct	-70.54	
For >5,000, Deduct	-117.00	



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Sewer Utilities		33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0088	LF		16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	620.16	
			For Vinylster Resin, Add	407.44	
			For Epoxy Resin, Add	48.02	
			For Up To >10, Add	405.36	
			For >10 To 25, Add	240.79	
			For >25 To 50, Add	173.58	
			For >50 To 100, Add	86.79	
			For >500 To 1,000, Deduct	-31.96	
			For >1,000 To 2,000, Deduct	-48.42	
			For >2,000 To 5,000, Deduct	-79.37	
			For >5,000, Deduct	-131.65	
33 01 30 72-0089	LF		16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	690.70	
			For Vinylster Resin, Add	453.82	
			For Epoxy Resin, Add	53.49	
			For Up To >10, Add	451.30	
			For >10 To 25, Add	268.03	
			For >25 To 50, Add	193.23	
			For >50 To 100, Add	96.62	
			For >500 To 1,000, Deduct	-35.59	
			For >1,000 To 2,000, Deduct	-53.92	
			For >2,000 To 5,000, Deduct	-88.39	
			For >5,000, Deduct	-146.62	
33 01 30 72-0090	LF		16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	828.57	
			For Vinylster Resin, Add	546.60	
			For Epoxy Resin, Add	64.42	
			For Up To >10, Add	533.56	
			For >10 To 25, Add	314.49	
			For >25 To 50, Add	227.74	
			For >50 To 100, Add	113.87	
			For >500 To 1,000, Deduct	-42.62	
			For >1,000 To 2,000, Deduct	-64.53	
			For >2,000 To 5,000, Deduct	-105.63	
			For >5,000, Deduct	-175.26	
33 01 30 72-0091	LF		16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	967.80	
			For Vinylster Resin, Add	639.37	
			For Epoxy Resin, Add	75.35	
			For Up To >10, Add	619.95	
			For >10 To 25, Add	364.40	
			For >25 To 50, Add	264.31	
			For >50 To 100, Add	132.15	
			For >500 To 1,000, Deduct	-49.75	
			For >1,000 To 2,000, Deduct	-75.31	
			For >2,000 To 5,000, Deduct	-123.21	
			For >5,000, Deduct	-204.44	
33 01 30 72-0092	LF		16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,109.48	
			For Vinylster Resin, Add	732.14	
			For Epoxy Resin, Add	86.29	
			For Up To >10, Add	713.64	
			For >10 To 25, Add	420.38	
			For >25 To 50, Add	304.52	
			For >50 To 100, Add	152.26	
			For >500 To 1,000, Deduct	-57.06	
			For >1,000 To 2,000, Deduct	-86.39	
			For >2,000 To 5,000, Deduct	-141.40	
			For >5,000, Deduct	-234.61	
33 01 30 72-0093	LF		16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,250.10	
			For Vinylster Resin, Add	824.92	
			For Epoxy Resin, Add	97.22	
			For Up To >10, Add	804.15	
			For >10 To 25, Add	473.72	
			For >25 To 50, Add	343.15	
			For >50 To 100, Add	171.58	
			For >500 To 1,000, Deduct	-64.30	
			For >1,000 To 2,000, Deduct	-97.34	
			For >2,000 To 5,000, Deduct	-159.33	
			For >5,000, Deduct	-264.35	
33 01 30 72-0094			18mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0095	LF		18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	446.70	
			For Vinylster Resin, Add	291.67	
			For Epoxy Resin, Add	34.38	
			For Up To >10, Add	298.43	
			For >10 To 25, Add	179.24	
			For >25 To 50, Add	128.38	
			For >50 To 100, Add	64.19	
			For >500 To 1,000, Deduct	-23.09	
			For >1,000 To 2,000, Deduct	-35.00	
			For >2,000 To 5,000, Deduct	-57.51	
			For >5,000, Deduct	-95.35	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	521.58	
For Vinylester Resin, Add	342.27	
For Epoxy Resin, Add	40.34	
For Up To >10, Add	342.34	
For >10 To 25, Add	203.79	
For >25 To 50, Add	146.72	
For >50 To 100, Add	73.36	
For >500 To 1,000, Deduct	-26.89	
For >1,000 To 2,000, Deduct	-40.75	
For >2,000 To 5,000, Deduct	-66.83	
For >5,000, Deduct	-110.84	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	596.76	
For Vinylester Resin, Add	392.88	
For Epoxy Resin, Add	46.30	
For Up To >10, Add	387.16	
For >10 To 25, Add	229.09	
For >25 To 50, Add	165.52	
For >50 To 100, Add	82.76	
For >500 To 1,000, Deduct	-30.73	
For >1,000 To 2,000, Deduct	-46.53	
For >2,000 To 5,000, Deduct	-76.23	
For >5,000, Deduct	-126.45	
33 01 30 72-0098 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	672.72	
For Vinylester Resin, Add	443.49	
For Epoxy Resin, Add	52.27	
For Up To >10, Add	434.29	
For >10 To 25, Add	256.31	
For >25 To 50, Add	185.47	
For >50 To 100, Add	92.73	
For >500 To 1,000, Deduct	-34.62	
For >1,000 To 2,000, Deduct	-52.41	
For >2,000 To 5,000, Deduct	-85.82	
For >5,000, Deduct	-142.38	
33 01 30 72-0099 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	749.28	
For Vinylester Resin, Add	494.08	
For Epoxy Resin, Add	58.23	
For Up To >10, Add	483.27	
For >10 To 25, Add	285.08	
For >25 To 50, Add	206.34	
For >50 To 100, Add	103.17	
For >500 To 1,000, Deduct	-38.55	
For >1,000 To 2,000, Deduct	-58.37	
For >2,000 To 5,000, Deduct	-95.56	
For >5,000, Deduct	-158.55	
33 01 30 72-0100 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	900.42	
For Vinylester Resin, Add	595.29	
For Epoxy Resin, Add	70.16	
For Up To >10, Add	575.21	
For >10 To 25, Add	337.61	
For >25 To 50, Add	245.08	
For >50 To 100, Add	122.54	
For >500 To 1,000, Deduct	-46.27	
For >1,000 To 2,000, Deduct	-70.03	
For >2,000 To 5,000, Deduct	-114.55	
For >5,000, Deduct	-190.08	
33 01 30 72-0101 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,052.16	
For Vinylester Resin, Add	696.50	
For Epoxy Resin, Add	82.09	
For Up To >10, Add	668.98	
For >10 To 25, Add	391.65	
For >25 To 50, Add	284.74	
For >50 To 100, Add	142.37	
For >500 To 1,000, Deduct	-54.04	
For >1,000 To 2,000, Deduct	-81.77	
For >2,000 To 5,000, Deduct	-133.69	
For >5,000, Deduct	-221.86	
33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,206.35	
For Vinylester Resin, Add	797.71	
For Epoxy Resin, Add	94.02	
For Up To >10, Add	770.10	
For >10 To 25, Add	451.82	
For >25 To 50, Add	328.07	
For >50 To 100, Add	164.04	
For >500 To 1,000, Deduct	-61.99	
For >1,000 To 2,000, Deduct	-93.81	
For >2,000 To 5,000, Deduct	-153.44	
For >5,000, Deduct	-254.62	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0103	LF		18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,359.47	
			For Vinylester Resin, Add	898.92	
			For Epoxy Resin, Add	105.94	
			For Up To >10, Add	867.99	
			For >10 To 25, Add	509.29	
			For >25 To 50, Add	369.78	
			For >50 To 100, Add	184.89	
			For >500 To 1,000, Deduct	-69.86	
			For >1,000 To 2,000, Deduct	-105.73	
			For >2,000 To 5,000, Deduct	-172.93	
			For >5,000, Deduct	-286.95	
33 01 30 72-0104	LF		18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,512.43	
			For Vinylester Resin, Add	1,000.12	
			For Epoxy Resin, Add	117.87	
			For Up To >10, Add	965.44	
			For >10 To 25, Add	566.41	
			For >25 To 50, Add	411.28	
			For >50 To 100, Add	205.64	
			For >500 To 1,000, Deduct	-77.71	
			For >1,000 To 2,000, Deduct	-117.62	
			For >2,000 To 5,000, Deduct	-192.37	
			For >5,000, Deduct	-319.22	
33 01 30 72-0105	LF		18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,666.01	
			For Vinylester Resin, Add	1,101.33	
			For Epoxy Resin, Add	129.80	
			For Up To >10, Add	1,064.71	
			For >10 To 25, Add	625.03	
			For >25 To 50, Add	453.69	
			For >50 To 100, Add	226.84	
			For >500 To 1,000, Deduct	-85.62	
			For >1,000 To 2,000, Deduct	-129.58	
			For >2,000 To 5,000, Deduct	-211.97	
			For >5,000, Deduct	-351.74	
33 01 30 72-0106	LF		18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,819.12	
			For Vinylester Resin, Add	1,202.54	
			For Epoxy Resin, Add	141.73	
			For Up To >10, Add	1,162.59	
			For >10 To 25, Add	682.50	
			For >25 To 50, Add	495.40	
			For >50 To 100, Add	247.70	
			For >500 To 1,000, Deduct	-93.49	
			For >1,000 To 2,000, Deduct	-141.49	
			For >2,000 To 5,000, Deduct	-231.45	
			For >5,000, Deduct	-384.07	
33 01 30 72-0107			19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0108	LF		19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	481.10	
			For Vinylester Resin, Add	314.90	
			For Epoxy Resin, Add	37.11	
			For Up To >10, Add	318.68	
			For >10 To 25, Add	190.59	
			For >25 To 50, Add	136.85	
			For >50 To 100, Add	68.42	
			For >500 To 1,000, Deduct	-24.84	
			For >1,000 To 2,000, Deduct	-37.65	
			For >2,000 To 5,000, Deduct	-61.79	
			For >5,000, Deduct	-102.47	
33 01 30 72-0109	LF		19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	562.01	
			For Vinylester Resin, Add	369.72	
			For Epoxy Resin, Add	43.57	
			For Up To >10, Add	365.61	
			For >10 To 25, Add	216.64	
			For >25 To 50, Add	156.39	
			For >50 To 100, Add	78.20	
			For >500 To 1,000, Deduct	-28.95	
			For >1,000 To 2,000, Deduct	-43.84	
			For >2,000 To 5,000, Deduct	-71.84	
			For >5,000, Deduct	-119.17	
33 01 30 72-0110	LF		19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	643.37	
			For Vinylester Resin, Add	424.54	
			For Epoxy Resin, Add	50.03	
			For Up To >10, Add	413.91	
			For >10 To 25, Add	243.85	
			For >25 To 50, Add	176.63	
			For >50 To 100, Add	88.32	
			For >500 To 1,000, Deduct	-33.09	
			For >1,000 To 2,000, Deduct	-50.10	
			For >2,000 To 5,000, Deduct	-82.00	
			For >5,000, Deduct	-136.05	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0111 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	725.04	
For Vinylester Resin, Add	479.36	
For Epoxy Resin, Add	56.50	
For Up To >10, Add	463.12	
For >10 To 25, Add	271.80	
For >25 To 50, Add	197.32	
For >50 To 100, Add	98.66	
For >500 To 1,000, Deduct	-37.26	
For >1,000 To 2,000, Deduct	-56.39	
For >2,000 To 5,000, Deduct	-92.24	
For >5,000, Deduct	-153.06	
33 01 30 72-0112 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	807.92	
For Vinylester Resin, Add	534.18	
For Epoxy Resin, Add	62.96	
For Up To >10, Add	515.99	
For >10 To 25, Add	302.80	
For >25 To 50, Add	219.84	
For >50 To 100, Add	109.92	
For >500 To 1,000, Deduct	-41.52	
For >1,000 To 2,000, Deduct	-62.83	
For >2,000 To 5,000, Deduct	-102.78	
For >5,000, Deduct	-170.55	
33 01 30 72-0113 LF 19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	972.48	
For Vinylester Resin, Add	643.82	
For Epoxy Resin, Add	75.88	
For Up To >10, Add	618.09	
For >10 To 25, Add	361.79	
For >25 To 50, Add	263.06	
For >50 To 100, Add	131.53	
For >500 To 1,000, Deduct	-49.94	
For >1,000 To 2,000, Deduct	-75.57	
For >2,000 To 5,000, Deduct	-123.55	
For >5,000, Deduct	-205.04	
33 01 30 72-0114 LF 19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,137.49	
For Vinylester Resin, Add	753.46	
For Epoxy Resin, Add	88.80	
For Up To >10, Add	721.55	
For >10 To 25, Add	421.89	
For >25 To 50, Add	306.95	
For >50 To 100, Add	153.48	
For >500 To 1,000, Deduct	-58.40	
For >1,000 To 2,000, Deduct	-88.37	
For >2,000 To 5,000, Deduct	-144.44	
For >5,000, Deduct	-239.72	
33 01 30 72-0115 LF 19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,303.58	
For Vinylester Resin, Add	863.11	
For Epoxy Resin, Add	101.72	
For Up To >10, Add	828.22	
For >10 To 25, Add	484.68	
For >25 To 50, Add	352.46	
For >50 To 100, Add	176.23	
For >500 To 1,000, Deduct	-66.94	
For >1,000 To 2,000, Deduct	-101.30	
For >2,000 To 5,000, Deduct	-165.60	
For >5,000, Deduct	-274.83	
33 01 30 72-0116 LF 19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,469.20	
For Vinylester Resin, Add	972.74	
For Epoxy Resin, Add	114.64	
For Up To >10, Add	933.53	
For >10 To 25, Add	546.33	
For >25 To 50, Add	397.28	
For >50 To 100, Add	198.64	
For >500 To 1,000, Deduct	-75.45	
For >1,000 To 2,000, Deduct	-114.17	
For >2,000 To 5,000, Deduct	-186.65	
For >5,000, Deduct	-309.75	
33 01 30 72-0117 LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,634.82	
For Vinylester Resin, Add	1,082.38	
For Epoxy Resin, Add	127.57	
For Up To >10, Add	1,038.81	
For >10 To 25, Add	607.97	
For >25 To 50, Add	442.09	
For >50 To 100, Add	221.05	
For >500 To 1,000, Deduct	-83.96	
For >1,000 To 2,000, Deduct	-127.04	
For >2,000 To 5,000, Deduct	-207.69	
For >5,000, Deduct	-344.68	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0118	LF		19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,802.29	
			For Vinylester Resin, Add	1,192.03	
			For Epoxy Resin, Add	140.49	
			For Up To >10, Add	1,149.62	
			For >10 To 25, Add	674.20	
			For >25 To 50, Add	489.67	
			For >50 To 100, Add	244.83	
			For >500 To 1,000, Deduct	-92.60	
			For >1,000 To 2,000, Deduct	-140.14	
			For >2,000 To 5,000, Deduct	-229.20	
			For >5,000, Deduct	-380.34	
33 01 30 72-0119	LF		19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,968.05	
			For Vinylester Resin, Add	1,301.66	
			For Epoxy Resin, Add	153.41	
			For Up To >10, Add	1,255.35	
			For >10 To 25, Add	736.21	
			For >25 To 50, Add	534.70	
			For >50 To 100, Add	267.35	
			For >500 To 1,000, Deduct	-101.12	
			For >1,000 To 2,000, Deduct	-153.03	
			For >2,000 To 5,000, Deduct	-250.27	
			For >5,000, Deduct	-415.32	
33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0121	LF		21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	515.11	
			For Vinylester Resin, Add	337.95	
			For Epoxy Resin, Add	39.83	
			For Up To >10, Add	338.36	
			For >10 To 25, Add	201.50	
			For >25 To 50, Add	145.04	
			For >50 To 100, Add	72.52	
			For >500 To 1,000, Deduct	-26.56	
			For >1,000 To 2,000, Deduct	-40.25	
			For >2,000 To 5,000, Deduct	-66.01	
			For >5,000, Deduct	-109.49	
33 01 30 72-0122	LF		21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	602.19	
			For Vinylester Resin, Add	396.99	
			For Epoxy Resin, Add	46.79	
			For Up To >10, Add	388.75	
			For >10 To 25, Add	229.43	
			For >25 To 50, Add	166.02	
			For >50 To 100, Add	83.01	
			For >500 To 1,000, Deduct	-30.99	
			For >1,000 To 2,000, Deduct	-46.92	
			For >2,000 To 5,000, Deduct	-76.82	
			For >5,000, Deduct	-127.45	
33 01 30 72-0123	LF		21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	689.74	
			For Vinylester Resin, Add	456.04	
			For Epoxy Resin, Add	53.75	
			For Up To >10, Add	440.52	
			For >10 To 25, Add	258.52	
			For >25 To 50, Add	187.69	
			For >50 To 100, Add	93.84	
			For >500 To 1,000, Deduct	-35.44	
			For >1,000 To 2,000, Deduct	-53.64	
			For >2,000 To 5,000, Deduct	-87.74	
			For >5,000, Deduct	-145.60	
33 01 30 72-0124	LF		21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	777.12	
			For Vinylester Resin, Add	515.07	
			For Epoxy Resin, Add	60.70	
			For Up To >10, Add	491.84	
			For >10 To 25, Add	287.23	
			For >25 To 50, Add	209.13	
			For >50 To 100, Add	104.56	
			For >500 To 1,000, Deduct	-39.89	
			For >1,000 To 2,000, Deduct	-60.35	
			For >2,000 To 5,000, Deduct	-98.62	
			For >5,000, Deduct	-163.69	
33 01 30 72-0125	LF		21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	866.20	
			For Vinylester Resin, Add	574.11	
			For Epoxy Resin, Add	67.66	
			For Up To >10, Add	548.20	
			For >10 To 25, Add	320.14	
			For >25 To 50, Add	233.09	
			For >50 To 100, Add	116.55	
			For >500 To 1,000, Deduct	-44.46	
			For >1,000 To 2,000, Deduct	-67.27	
			For >2,000 To 5,000, Deduct	-109.93	
			For >5,000, Deduct	-182.45	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,044.31	
For Vinylester Resin, Add	692.18	
For Epoxy Resin, Add	81.58	
For Up To >10, Add	660.86	
For >10 To 25, Add	385.91	
For >25 To 50, Add	280.99	
For >50 To 100, Add	140.49	
For >500 To 1,000, Deduct	-53.60	
For >1,000 To 2,000, Deduct	-81.10	
For >2,000 To 5,000, Deduct	-132.53	
For >5,000, Deduct	-219.96	
33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,222.45	
For Vinylester Resin, Add	810.26	
For Epoxy Resin, Add	95.49	
For Up To >10, Add	773.58	
For >10 To 25, Add	451.73	
For >25 To 50, Add	328.91	
For >50 To 100, Add	164.46	
For >500 To 1,000, Deduct	-62.75	
For >1,000 To 2,000, Deduct	-94.93	
For >2,000 To 5,000, Deduct	-155.14	
For >5,000, Deduct	-257.48	
33 01 30 72-0128 LF 21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,400.58	
For Vinylester Resin, Add	928.33	
For Epoxy Resin, Add	109.41	
For Up To >10, Add	886.27	
For >10 To 25, Add	517.52	
For >25 To 50, Add	376.82	
For >50 To 100, Add	188.41	
For >500 To 1,000, Deduct	-71.89	
For >1,000 To 2,000, Deduct	-108.76	
For >2,000 To 5,000, Deduct	-177.74	
For >5,000, Deduct	-294.99	
33 01 30 72-0129 LF 21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,578.70	
For Vinylester Resin, Add	1,046.41	
For Epoxy Resin, Add	123.33	
For Up To >10, Add	998.93	
For >10 To 25, Add	583.29	
For >25 To 50, Add	424.72	
For >50 To 100, Add	212.36	
For >500 To 1,000, Deduct	-81.03	
For >1,000 To 2,000, Deduct	-122.59	
For >2,000 To 5,000, Deduct	-200.34	
For >5,000, Deduct	-332.51	
33 01 30 72-0130 LF 21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,756.84	
For Vinylester Resin, Add	1,164.49	
For Epoxy Resin, Add	137.24	
For Up To >10, Add	1,111.65	
For >10 To 25, Add	649.11	
For >25 To 50, Add	472.65	
For >50 To 100, Add	236.32	
For >500 To 1,000, Deduct	-90.17	
For >1,000 To 2,000, Deduct	-136.43	
For >2,000 To 5,000, Deduct	-222.95	
For >5,000, Deduct	-370.03	
33 01 30 72-0131 LF 21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,938.32	
For Vinylester Resin, Add	1,282.56	
For Epoxy Resin, Add	151.16	
For Up To >10, Add	1,234.39	
For >10 To 25, Add	723.28	
For >25 To 50, Add	525.58	
For >50 To 100, Add	262.79	
For >500 To 1,000, Deduct	-99.57	
For >1,000 To 2,000, Deduct	-150.68	
For >2,000 To 5,000, Deduct	-246.39	
For >5,000, Deduct	-408.88	
33 01 30 72-0132 LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,116.76	
For Vinylester Resin, Add	1,400.64	
For Epoxy Resin, Add	165.08	
For Up To >10, Add	1,348.01	
For >10 To 25, Add	789.85	
For >25 To 50, Add	573.96	
For >50 To 100, Add	286.98	
For >500 To 1,000, Deduct	-108.73	
For >1,000 To 2,000, Deduct	-164.55	
For >2,000 To 5,000, Deduct	-269.07	
For >5,000, Deduct	-446.52	

33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0134	LF		22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	548.73	
			For Vinylester Resin, Add	360.85	
			For Epoxy Resin, Add	42.53	
			For Up To >10, Add	357.44	
			For >10 To 25, Add	211.95	
			For >25 To 50, Add	152.95	
			For >50 To 100, Add	76.47	
			For >500 To 1,000, Deduct	-28.27	
			For >1,000 To 2,000, Deduct	-42.82	
			For >2,000 To 5,000, Deduct	-70.17	
			For >5,000, Deduct	-116.39	
33 01 30 72-0135	LF		22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	641.83	
			For Vinylester Resin, Add	424.10	
			For Epoxy Resin, Add	49.98	
			For Up To >10, Add	410.84	
			For >10 To 25, Add	241.39	
			For >25 To 50, Add	175.13	
			For >50 To 100, Add	87.56	
			For >500 To 1,000, Deduct	-32.99	
			For >1,000 To 2,000, Deduct	-49.94	
			For >2,000 To 5,000, Deduct	-81.70	
			For >5,000, Deduct	-135.56	
33 01 30 72-0136	LF		22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	735.86	
			For Vinylester Resin, Add	487.36	
			For Epoxy Resin, Add	57.44	
			For Up To >10, Add	467.01	
			For >10 To 25, Add	273.13	
			For >25 To 50, Add	198.69	
			For >50 To 100, Add	99.35	
			For >500 To 1,000, Deduct	-37.78	
			For >1,000 To 2,000, Deduct	-57.17	
			For >2,000 To 5,000, Deduct	-93.46	
			For >5,000, Deduct	-155.10	
33 01 30 72-0137	LF		22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	830.34	
			For Vinylester Resin, Add	550.61	
			For Epoxy Resin, Add	64.89	
			For Up To >10, Add	524.55	
			For >10 To 25, Add	306.02	
			For >25 To 50, Add	222.94	
			For >50 To 100, Add	111.47	
			For >500 To 1,000, Deduct	-42.61	
			For >1,000 To 2,000, Deduct	-64.46	
			For >2,000 To 5,000, Deduct	-105.33	
			For >5,000, Deduct	-174.82	
33 01 30 72-0138	LF		22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	925.73	
			For Vinylester Resin, Add	613.87	
			For Epoxy Resin, Add	72.35	
			For Up To >10, Add	584.82	
			For >10 To 25, Add	341.19	
			For >25 To 50, Add	248.56	
			For >50 To 100, Add	124.28	
			For >500 To 1,000, Deduct	-47.51	
			For >1,000 To 2,000, Deduct	-71.87	
			For >2,000 To 5,000, Deduct	-117.43	
			For >5,000, Deduct	-194.90	
33 01 30 72-0139	LF		22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,116.52	
			For Vinylester Resin, Add	740.38	
			For Epoxy Resin, Add	87.26	
			For Up To >10, Add	705.36	
			For >10 To 25, Add	411.52	
			For >25 To 50, Add	299.80	
			For >50 To 100, Add	149.90	
			For >500 To 1,000, Deduct	-57.30	
			For >1,000 To 2,000, Deduct	-86.68	
			For >2,000 To 5,000, Deduct	-141.63	
			For >5,000, Deduct	-235.07	
33 01 30 72-0140	LF		22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,307.31	
			For Vinylester Resin, Add	866.89	
			For Epoxy Resin, Add	102.17	
			For Up To >10, Add	825.91	
			For >10 To 25, Add	481.85	
			For >25 To 50, Add	351.03	
			For >50 To 100, Add	175.52	
			For >500 To 1,000, Deduct	-67.09	
			For >1,000 To 2,000, Deduct	-101.49	
			For >2,000 To 5,000, Deduct	-165.83	
			For >5,000, Deduct	-275.24	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,498.10	
For Vinylester Resin, Add	993.40	
For Epoxy Resin, Add	117.08	
For Up To >10, Add	946.45	
For >10 To 25, Add	552.19	
For >25 To 50, Add	402.27	
For >50 To 100, Add	201.13	
For >500 To 1,000, Deduct	-76.88	
For >1,000 To 2,000, Deduct	-116.31	
For >2,000 To 5,000, Deduct	-190.04	
For >5,000, Deduct	-315.41	
33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,688.89	
For Vinylester Resin, Add	1,119.91	
For Epoxy Resin, Add	131.99	
For Up To >10, Add	1,067.00	
For >10 To 25, Add	622.52	
For >25 To 50, Add	453.50	
For >50 To 100, Add	226.75	
For >500 To 1,000, Deduct	-86.67	
For >1,000 To 2,000, Deduct	-131.12	
For >2,000 To 5,000, Deduct	-214.24	
For >5,000, Deduct	-355.58	
33 01 30 72-0143 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,879.68	
For Vinylester Resin, Add	1,246.41	
For Epoxy Resin, Add	146.90	
For Up To >10, Add	1,187.57	
For >10 To 25, Add	692.87	
For >25 To 50, Add	504.75	
For >50 To 100, Add	252.38	
For >500 To 1,000, Deduct	-96.46	
For >1,000 To 2,000, Deduct	-145.93	
For >2,000 To 5,000, Deduct	-238.44	
For >5,000, Deduct	-395.75	
33 01 30 72-0144 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,073.97	
For Vinylester Resin, Add	1,372.92	
For Epoxy Resin, Add	161.81	
For Up To >10, Add	1,318.61	
For >10 To 25, Add	771.96	
For >25 To 50, Add	561.24	
For >50 To 100, Add	280.62	
For >500 To 1,000, Deduct	-106.51	
For >1,000 To 2,000, Deduct	-161.18	
For >2,000 To 5,000, Deduct	-263.52	
For >5,000, Deduct	-437.32	
33 01 30 72-0145 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,265.07	
For Vinylester Resin, Add	1,499.44	
For Epoxy Resin, Add	176.72	
For Up To >10, Add	1,440.09	
For >10 To 25, Add	843.06	
For >25 To 50, Add	612.94	
For >50 To 100, Add	306.47	
For >500 To 1,000, Deduct	-116.33	
For >1,000 To 2,000, Deduct	-176.03	
For >2,000 To 5,000, Deduct	-287.80	
For >5,000, Deduct	-477.62	
33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	581.96	
For Vinylester Resin, Add	383.58	
For Epoxy Resin, Add	45.21	
For Up To >10, Add	375.96	
For >10 To 25, Add	221.97	
For >25 To 50, Add	160.58	
For >50 To 100, Add	80.29	
For >500 To 1,000, Deduct	-29.95	
For >1,000 To 2,000, Deduct	-45.35	
For >2,000 To 5,000, Deduct	-74.25	
For >5,000, Deduct	-123.19	
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	681.10	
For Vinylester Resin, Add	451.05	
For Epoxy Resin, Add	53.16	
For Up To >10, Add	432.40	
For >10 To 25, Add	252.94	
For >25 To 50, Add	183.98	
For >50 To 100, Add	91.99	
For >500 To 1,000, Deduct	-34.97	
For >1,000 To 2,000, Deduct	-52.92	
For >2,000 To 5,000, Deduct	-86.51	
For >5,000, Deduct	-143.57	



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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0149	LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	781.60	
	For Vinylester Resin, Add	518.53	
	For Epoxy Resin, Add	61.11	
	For Up To >10, Add	492.93	
	For >10 To 25, Add	287.31	
	For >25 To 50, Add	209.43	
	For >50 To 100, Add	104.71	
	For >500 To 1,000, Deduct	-40.10	
	For >1,000 To 2,000, Deduct	-60.66	
	For >2,000 To 5,000, Deduct	-99.10	
	For >5,000, Deduct	-164.49	
33 01 30 72-0150	LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	883.31	
	For Vinylester Resin, Add	585.99	
	For Epoxy Resin, Add	69.06	
	For Up To >10, Add	557.11	
	For >10 To 25, Add	324.73	
	For >25 To 50, Add	236.70	
	For >50 To 100, Add	118.35	
	For >500 To 1,000, Deduct	-45.32	
	For >1,000 To 2,000, Deduct	-68.56	
	For >2,000 To 5,000, Deduct	-112.00	
	For >5,000, Deduct	-185.90	
33 01 30 72-0151	LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	985.04	
	For Vinylester Resin, Add	653.46	
	For Epoxy Resin, Add	77.02	
	For Up To >10, Add	621.32	
	For >10 To 25, Add	362.18	
	For >25 To 50, Add	263.98	
	For >50 To 100, Add	131.99	
	For >500 To 1,000, Deduct	-50.54	
	For >1,000 To 2,000, Deduct	-76.45	
	For >2,000 To 5,000, Deduct	-124.90	
	For >5,000, Deduct	-207.31	
33 01 30 72-0152	LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,188.49	
	For Vinylester Resin, Add	788.41	
	For Epoxy Resin, Add	92.92	
	For Up To >10, Add	749.72	
	For >10 To 25, Add	437.05	
	For >25 To 50, Add	318.55	
	For >50 To 100, Add	159.27	
	For >500 To 1,000, Deduct	-60.98	
	For >1,000 To 2,000, Deduct	-92.25	
	For >2,000 To 5,000, Deduct	-150.70	
	For >5,000, Deduct	-250.14	
33 01 30 72-0153	LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,438.79	
	For Vinylester Resin, Add	956.26	
	For Epoxy Resin, Add	112.70	
	For Up To >10, Add	901.17	
	For >10 To 25, Add	523.30	
	For >25 To 50, Add	382.28	
	For >50 To 100, Add	191.14	
	For >500 To 1,000, Deduct	-73.76	
	For >1,000 To 2,000, Deduct	-111.54	
	For >2,000 To 5,000, Deduct	-182.11	
	For >5,000, Deduct	-302.30	
33 01 30 72-0154	LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,595.23	
	For Vinylester Resin, Add	1,058.30	
	For Epoxy Resin, Add	124.73	
	For Up To >10, Add	1,006.07	
	For >10 To 25, Add	586.41	
	For >25 To 50, Add	427.44	
	For >50 To 100, Add	213.72	
	For >500 To 1,000, Deduct	-81.85	
	For >1,000 To 2,000, Deduct	-123.81	
	For >2,000 To 5,000, Deduct	-202.27	
	For >5,000, Deduct	-335.72	
33 01 30 72-0155	LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,798.68	
	For Vinylester Resin, Add	1,193.24	
	For Epoxy Resin, Add	140.63	
	For Up To >10, Add	1,134.47	
	For >10 To 25, Add	661.28	
	For >25 To 50, Add	482.00	
	For >50 To 100, Add	241.00	
	For >500 To 1,000, Deduct	-92.29	
	For >1,000 To 2,000, Deduct	-139.60	
	For >2,000 To 5,000, Deduct	-228.07	
	For >5,000, Deduct	-378.55	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,002.12	
For Vinylester Resin, Add	1,328.18	
For Epoxy Resin, Add	156.54	
For Up To >10, Add	1,262.86	
For >10 To 25, Add	736.15	
For >25 To 50, Add	536.56	
For >50 To 100, Add	268.28	
For >500 To 1,000, Deduct	-102.72	
For >1,000 To 2,000, Deduct	-155.40	
For >2,000 To 5,000, Deduct	-253.87	
For >5,000, Deduct	-421.37	
33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,209.23	
For Vinylester Resin, Add	1,463.13	
For Epoxy Resin, Add	172.44	
For Up To >10, Add	1,402.24	
For >10 To 25, Add	820.17	
For >25 To 50, Add	596.61	
For >50 To 100, Add	298.31	
For >500 To 1,000, Deduct	-113.44	
For >1,000 To 2,000, Deduct	-171.64	
For >2,000 To 5,000, Deduct	-280.58	
For >5,000, Deduct	-465.66	
33 01 30 72-0158 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,412.99	
For Vinylester Resin, Add	1,598.07	
For Epoxy Resin, Add	188.34	
For Up To >10, Add	1,531.57	
For >10 To 25, Add	895.82	
For >25 To 50, Add	651.64	
For >50 To 100, Add	325.82	
For >500 To 1,000, Deduct	-123.90	
For >1,000 To 2,000, Deduct	-187.48	
For >2,000 To 5,000, Deduct	-306.46	
For >5,000, Deduct	-508.60	
33 01 30 72-0159 LF 24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,616.73	
For Vinylester Resin, Add	1,733.01	
For Epoxy Resin, Add	204.25	
For Up To >10, Add	1,660.87	
For >10 To 25, Add	971.43	
For >25 To 50, Add	706.65	
For >50 To 100, Add	353.32	
For >500 To 1,000, Deduct	-134.36	
For >1,000 To 2,000, Deduct	-203.30	
For >2,000 To 5,000, Deduct	-332.34	
For >5,000, Deduct	-551.55	
33 01 30 72-0160 LF 24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,820.49	
For Vinylester Resin, Add	1,867.96	
For Epoxy Resin, Add	220.15	
For Up To >10, Add	1,790.20	
For >10 To 25, Add	1,047.08	
For >25 To 50, Add	761.67	
For >50 To 100, Add	380.84	
For >500 To 1,000, Deduct	-144.82	
For >1,000 To 2,000, Deduct	-219.14	
For >2,000 To 5,000, Deduct	-358.22	
For >5,000, Deduct	-594.49	
33 01 30 72-0161 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0162 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	720.57	
For Vinylester Resin, Add	477.83	
For Epoxy Resin, Add	56.32	
For Up To >10, Add	455.19	
For >10 To 25, Add	265.55	
For >25 To 50, Add	193.46	
For >50 To 100, Add	96.73	
For >500 To 1,000, Deduct	-36.98	
For >1,000 To 2,000, Deduct	-55.94	
For >2,000 To 5,000, Deduct	-91.40	
For >5,000, Deduct	-151.71	
33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	828.01	
For Vinylester Resin, Add	549.51	
For Epoxy Resin, Add	64.76	
For Up To >10, Add	521.48	
For >10 To 25, Add	303.73	
For >25 To 50, Add	221.49	
For >50 To 100, Add	110.74	
For >500 To 1,000, Deduct	-42.48	
For >1,000 To 2,000, Deduct	-64.25	
For >2,000 To 5,000, Deduct	-104.95	
For >5,000, Deduct	-174.20	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0164 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	936.07	
For Vinylester Resin, Add	621.21	
For Epoxy Resin, Add	73.21	
For Up To >10, Add	589.61	
For >10 To 25, Add	343.44	
For >25 To 50, Add	250.43	
For >50 To 100, Add	125.22	
For >500 To 1,000, Deduct	-48.02	
For >1,000 To 2,000, Deduct	-72.64	
For >2,000 To 5,000, Deduct	-118.65	
For >5,000, Deduct	-196.94	
33 01 30 72-0165 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,043.97	
For Vinylester Resin, Add	692.90	
For Epoxy Resin, Add	81.66	
For Up To >10, Add	657.29	
For >10 To 25, Add	382.76	
For >25 To 50, Add	279.15	
For >50 To 100, Add	139.58	
For >500 To 1,000, Deduct	-53.55	
For >1,000 To 2,000, Deduct	-81.00	
For >2,000 To 5,000, Deduct	-132.31	
For >5,000, Deduct	-219.62	
33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,260.07	
For Vinylester Resin, Add	836.27	
For Epoxy Resin, Add	98.56	
For Up To >10, Add	793.54	
For >10 To 25, Add	462.17	
For >25 To 50, Add	337.03	
For >50 To 100, Add	168.52	
For >500 To 1,000, Deduct	-64.64	
For >1,000 To 2,000, Deduct	-97.78	
For >2,000 To 5,000, Deduct	-159.71	
For >5,000, Deduct	-265.09	
33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,476.02	
For Vinylester Resin, Add	979.65	
For Epoxy Resin, Add	115.46	
For Up To >10, Add	929.31	
For >10 To 25, Add	541.18	
For >25 To 50, Add	394.68	
For >50 To 100, Add	197.34	
For >500 To 1,000, Deduct	-75.71	
For >1,000 To 2,000, Deduct	-114.53	
For >2,000 To 5,000, Deduct	-187.07	
For >5,000, Deduct	-310.51	
33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,692.13	
For Vinylester Resin, Add	1,123.03	
For Epoxy Resin, Add	132.36	
For Up To >10, Add	1,065.57	
For >10 To 25, Add	620.58	
For >25 To 50, Add	452.57	
For >50 To 100, Add	226.28	
For >500 To 1,000, Deduct	-86.80	
For >1,000 To 2,000, Deduct	-131.30	
For >2,000 To 5,000, Deduct	-214.47	
For >5,000, Deduct	-355.99	
33 01 30 72-0169 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,908.08	
For Vinylester Resin, Add	1,266.41	
For Epoxy Resin, Add	149.25	
For Up To >10, Add	1,201.37	
For >10 To 25, Add	699.61	
For >25 To 50, Add	510.23	
For >50 To 100, Add	255.11	
For >500 To 1,000, Deduct	-97.88	
For >1,000 To 2,000, Deduct	-148.05	
For >2,000 To 5,000, Deduct	-241.83	
For >5,000, Deduct	-401.40	
33 01 30 72-0170 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,124.19	
For Vinylester Resin, Add	1,409.79	
For Epoxy Resin, Add	166.15	
For Up To >10, Add	1,337.62	
For >10 To 25, Add	779.02	
For >25 To 50, Add	568.11	
For >50 To 100, Add	284.06	
For >500 To 1,000, Deduct	-108.96	
For >1,000 To 2,000, Deduct	-164.82	
For >2,000 To 5,000, Deduct	-269.23	
For >5,000, Deduct	-446.88	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0171 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,345.17	
For Vinylester Resin, Add	1,553.16	
For Epoxy Resin, Add	183.05	
For Up To >10, Add	1,488.51	
For >10 To 25, Add	870.63	
For >25 To 50, Add	633.32	
For >50 To 100, Add	316.66	
For >500 To 1,000, Deduct	-120.42	
For >1,000 To 2,000, Deduct	-182.21	
For >2,000 To 5,000, Deduct	-297.85	
For >5,000, Deduct	-494.31	
33 01 30 72-0172 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,561.73	
For Vinylester Resin, Add	1,696.54	
For Epoxy Resin, Add	199.95	
For Up To >10, Add	1,626.12	
For >10 To 25, Add	951.16	
For >25 To 50, Add	691.88	
For >50 To 100, Add	345.94	
For >500 To 1,000, Deduct	-131.54	
For >1,000 To 2,000, Deduct	-199.03	
For >2,000 To 5,000, Deduct	-325.36	
For >5,000, Deduct	-539.97	
33 01 30 72-0173 LF 25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,778.14	
For Vinylester Resin, Add	1,839.92	
For Epoxy Resin, Add	216.85	
For Up To >10, Add	1,763.30	
For >10 To 25, Add	1,031.34	
For >25 To 50, Add	750.23	
For >50 To 100, Add	375.11	
For >500 To 1,000, Deduct	-142.65	
For >1,000 To 2,000, Deduct	-215.85	
For >2,000 To 5,000, Deduct	-352.84	
For >5,000, Deduct	-585.57	
33 01 30 72-0174 LF 25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,994.69	
For Vinylester Resin, Add	1,983.29	
For Epoxy Resin, Add	233.74	
For Up To >10, Add	1,900.90	
For >10 To 25, Add	1,111.87	
For >25 To 50, Add	808.78	
For >50 To 100, Add	404.39	
For >500 To 1,000, Deduct	-153.77	
For >1,000 To 2,000, Deduct	-232.67	
For >2,000 To 5,000, Deduct	-380.35	
For >5,000, Deduct	-631.22	
33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0176 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	759.65	
For Vinylester Resin, Add	504.44	
For Epoxy Resin, Add	59.45	
For Up To >10, Add	477.38	
For >10 To 25, Add	277.71	
For >25 To 50, Add	202.66	
For >50 To 100, Add	101.33	
For >500 To 1,000, Deduct	-38.96	
For >1,000 To 2,000, Deduct	-58.92	
For >2,000 To 5,000, Deduct	-96.23	
For >5,000, Deduct	-159.73	
33 01 30 72-0177 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	874.04	
For Vinylester Resin, Add	580.35	
For Epoxy Resin, Add	68.40	
For Up To >10, Add	549.45	
For >10 To 25, Add	319.69	
For >25 To 50, Add	233.27	
For >50 To 100, Add	116.63	
For >500 To 1,000, Deduct	-44.83	
For >1,000 To 2,000, Deduct	-67.80	
For >2,000 To 5,000, Deduct	-110.73	
For >5,000, Deduct	-183.80	
33 01 30 72-0178 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	988.42	
For Vinylester Resin, Add	656.26	
For Epoxy Resin, Add	77.34	
For Up To >10, Add	621.49	
For >10 To 25, Add	361.65	
For >25 To 50, Add	263.87	
For >50 To 100, Add	131.93	
For >500 To 1,000, Deduct	-50.69	
For >1,000 To 2,000, Deduct	-76.68	
For >2,000 To 5,000, Deduct	-125.23	
For >5,000, Deduct	-207.87	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 01 30 72-0179	LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,102.66		
	For Vinylester Resin, Add	732.17		
	For Epoxy Resin, Add	86.29		
	For Up To >10, Add	693.11		
	For >10 To 25, Add	403.26		
	For >25 To 50, Add	294.26		
	For >50 To 100, Add	147.13		
	For >500 To 1,000, Deduct	-56.55		
	For >1,000 To 2,000, Deduct	-85.54		
	For >2,000 To 5,000, Deduct	-139.69		
	For >5,000, Deduct	-231.87		
33 01 30 72-0180	LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,331.27		
	For Vinylester Resin, Add	883.97		
	For Epoxy Resin, Add	104.18		
	For Up To >10, Add	836.76		
	For >10 To 25, Add	486.83		
	For >25 To 50, Add	355.24		
	For >50 To 100, Add	177.62		
	For >500 To 1,000, Deduct	-68.27		
	For >1,000 To 2,000, Deduct	-103.27		
	For >2,000 To 5,000, Deduct	-168.65		
	For >5,000, Deduct	-279.94		
33 01 30 72-0181	LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,560.02		
	For Vinylester Resin, Add	1,035.78		
	For Epoxy Resin, Add	122.07		
	For Up To >10, Add	980.84		
	For >10 To 25, Add	570.75		
	For >25 To 50, Add	416.43		
	For >50 To 100, Add	208.22		
	For >500 To 1,000, Deduct	-80.01		
	For >1,000 To 2,000, Deduct	-121.02		
	For >2,000 To 5,000, Deduct	-197.65		
	For >5,000, Deduct	-328.07		
33 01 30 72-0182	LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,788.64		
	For Vinylester Resin, Add	1,187.60		
	For Epoxy Resin, Add	139.97		
	For Up To >10, Add	1,124.50		
	For >10 To 25, Add	654.32		
	For >25 To 50, Add	477.42		
	For >50 To 100, Add	238.71		
	For >500 To 1,000, Deduct	-91.73		
	For >1,000 To 2,000, Deduct	-138.75		
	For >2,000 To 5,000, Deduct	-226.61		
	For >5,000, Deduct	-376.14		
33 01 30 72-0183	LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,017.24		
	For Vinylester Resin, Add	1,339.41		
	For Epoxy Resin, Add	157.86		
	For Up To >10, Add	1,268.12		
	For >10 To 25, Add	737.86		
	For >25 To 50, Add	538.39		
	For >50 To 100, Add	269.19		
	For >500 To 1,000, Deduct	-103.46		
	For >1,000 To 2,000, Deduct	-156.48		
	For >2,000 To 5,000, Deduct	-255.56		
	For >5,000, Deduct	-424.21		
33 01 30 72-0184	LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,245.85		
	For Vinylester Resin, Add	1,491.22		
	For Epoxy Resin, Add	175.75		
	For Up To >10, Add	1,411.78		
	For >10 To 25, Add	821.43		
	For >25 To 50, Add	599.37		
	For >50 To 100, Add	299.69		
	For >500 To 1,000, Deduct	-115.18		
	For >1,000 To 2,000, Deduct	-174.22		
	For >2,000 To 5,000, Deduct	-284.52		
	For >5,000, Deduct	-472.28		
33 01 30 72-0185	LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,480.88		
	For Vinylester Resin, Add	1,643.03		
	For Epoxy Resin, Add	193.64		
	For Up To >10, Add	1,574.67		
	For >10 To 25, Add	921.02		
	For >25 To 50, Add	669.97		
	For >50 To 100, Add	334.99		
	For >500 To 1,000, Deduct	-127.39		
	For >1,000 To 2,000, Deduct	-192.75		
	For >2,000 To 5,000, Deduct	-315.09		
	For >5,000, Deduct	-522.91		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0186 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,710.09	
For Vinylester Resin, Add	1,794.84	
For Epoxy Resin, Add	211.53	
For Up To >10, Add	1,720.12	
For >10 To 25, Add	1,006.09	
For >25 To 50, Add	731.86	
For >50 To 100, Add	365.93	
For >500 To 1,000, Deduct	-139.16	
For >1,000 To 2,000, Deduct	-210.56	
For >2,000 To 5,000, Deduct	-344.19	
For >5,000, Deduct	-571.22	
33 01 30 72-0187 LF 27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,939.30	
For Vinylester Resin, Add	1,946.65	
For Epoxy Resin, Add	229.43	
For Up To >10, Add	1,865.58	
For >10 To 25, Add	1,091.16	
For >25 To 50, Add	793.74	
For >50 To 100, Add	396.87	
For >500 To 1,000, Deduct	-150.92	
For >1,000 To 2,000, Deduct	-228.37	
For >2,000 To 5,000, Deduct	-373.30	
For >5,000, Deduct	-619.53	
33 01 30 72-0188 LF 27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,168.52	
For Vinylester Resin, Add	2,098.46	
For Epoxy Resin, Add	247.32	
For Up To >10, Add	2,011.06	
For >10 To 25, Add	1,176.25	
For >25 To 50, Add	855.64	
For >50 To 100, Add	427.82	
For >500 To 1,000, Deduct	-162.69	
For >1,000 To 2,000, Deduct	-246.18	
For >2,000 To 5,000, Deduct	-402.42	
For >5,000, Deduct	-667.85	
33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0190 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	919.52	
For Vinylester Resin, Add	611.02	
For Epoxy Resin, Add	72.01	
For Up To >10, Add	576.36	
For >10 To 25, Add	334.82	
For >25 To 50, Add	244.54	
For >50 To 100, Add	122.27	
For >500 To 1,000, Deduct	-47.14	
For >1,000 To 2,000, Deduct	-71.30	
For >2,000 To 5,000, Deduct	-116.41	
For >5,000, Deduct	-193.23	
33 01 30 72-0191 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,040.23	
For Vinylester Resin, Add	691.14	
For Epoxy Resin, Add	81.46	
For Up To >10, Add	652.34	
For >10 To 25, Add	379.06	
For >25 To 50, Add	276.80	
For >50 To 100, Add	138.40	
For >500 To 1,000, Deduct	-53.33	
For >1,000 To 2,000, Deduct	-80.66	
For >2,000 To 5,000, Deduct	-131.70	
For >5,000, Deduct	-218.62	
33 01 30 72-0192 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,160.79	
For Vinylester Resin, Add	771.26	
For Epoxy Resin, Add	90.90	
For Up To >10, Add	727.87	
For >10 To 25, Add	422.93	
For >25 To 50, Add	308.85	
For >50 To 100, Add	154.42	
For >500 To 1,000, Deduct	-59.51	
For >1,000 To 2,000, Deduct	-90.01	
For >2,000 To 5,000, Deduct	-146.96	
For >5,000, Deduct	-243.96	
33 01 30 72-0193 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,469.56	
For Vinylester Resin, Add	978.87	
For Epoxy Resin, Add	115.37	
For Up To >10, Add	912.73	
For >10 To 25, Add	527.55	
For >25 To 50, Add	386.45	
For >50 To 100, Add	193.22	
For >500 To 1,000, Deduct	-75.26	
For >1,000 To 2,000, Deduct	-113.78	
For >2,000 To 5,000, Deduct	-185.60	
For >5,000, Deduct	-308.15	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0194	LF		28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,643.17	
			For Vinylester Resin, Add	1,091.75	
			For Epoxy Resin, Add	128.67	
			For Up To >10, Add	1,030.41	
			For >10 To 25, Add	598.74	
			For >25 To 50, Add	437.22	
			For >50 To 100, Add	218.61	
			For >500 To 1,000, Deduct	-84.25	
			For >1,000 To 2,000, Deduct	-127.41	
			For >2,000 To 5,000, Deduct	-208.04	
			For >5,000, Deduct	-345.34	
33 01 30 72-0195	LF		28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,884.30	
			For Vinylester Resin, Add	1,252.00	
			For Epoxy Resin, Add	147.56	
			For Up To >10, Add	1,181.48	
			For >10 To 25, Add	686.47	
			For >25 To 50, Add	501.31	
			For >50 To 100, Add	250.65	
			For >500 To 1,000, Deduct	-96.61	
			For >1,000 To 2,000, Deduct	-146.11	
			For >2,000 To 5,000, Deduct	-238.56	
			For >5,000, Deduct	-396.01	
33 01 30 72-0196	LF		28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,125.41	
			For Vinylester Resin, Add	1,412.24	
			For Epoxy Resin, Add	166.44	
			For Up To >10, Add	1,332.51	
			For >10 To 25, Add	774.17	
			For >25 To 50, Add	565.38	
			For >50 To 100, Add	282.69	
			For >500 To 1,000, Deduct	-108.97	
			For >1,000 To 2,000, Deduct	-164.80	
			For >2,000 To 5,000, Deduct	-269.08	
			For >5,000, Deduct	-446.67	
33 01 30 72-0197	LF		28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,366.52	
			For Vinylester Resin, Add	1,572.49	
			For Epoxy Resin, Add	185.33	
			For Up To >10, Add	1,483.54	
			For >10 To 25, Add	861.88	
			For >25 To 50, Add	629.45	
			For >50 To 100, Add	314.72	
			For >500 To 1,000, Deduct	-121.33	
			For >1,000 To 2,000, Deduct	-183.49	
			For >2,000 To 5,000, Deduct	-299.60	
			For >5,000, Deduct	-497.33	
33 01 30 72-0198	LF		28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,614.35	
			For Vinylester Resin, Add	1,732.73	
			For Epoxy Resin, Add	204.21	
			For Up To >10, Add	1,654.73	
			For >10 To 25, Add	966.38	
			For >25 To 50, Add	703.60	
			For >50 To 100, Add	351.80	
			For >500 To 1,000, Deduct	-134.19	
			For >1,000 To 2,000, Deduct	-203.03	
			For >2,000 To 5,000, Deduct	-331.79	
			For >5,000, Deduct	-550.67	
33 01 30 72-0199	LF		28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,856.07	
			For Vinylester Resin, Add	1,892.98	
			For Epoxy Resin, Add	223.10	
			For Up To >10, Add	1,807.59	
			For >10 To 25, Add	1,055.61	
			For >25 To 50, Add	768.58	
			For >50 To 100, Add	384.29	
			For >500 To 1,000, Deduct	-146.60	
			For >1,000 To 2,000, Deduct	-221.80	
			For >2,000 To 5,000, Deduct	-362.47	
			For >5,000, Deduct	-601.58	
33 01 30 72-0200	LF		28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,097.95	
			For Vinylester Resin, Add	2,053.22	
			For Epoxy Resin, Add	241.99	
			For Up To >10, Add	1,960.93	
			For >10 To 25, Add	1,145.24	
			For >25 To 50, Add	833.80	
			For >50 To 100, Add	416.90	
			For >500 To 1,000, Deduct	-159.02	
			For >1,000 To 2,000, Deduct	-240.59	
			For >2,000 To 5,000, Deduct	-393.18	
			For >5,000, Deduct	-652.55	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0201 LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,339.68	
For Vinylester Resin, Add	2,213.47	
For Epoxy Resin, Add	260.87	
For Up To >10, Add	2,113.79	
For >10 To 25, Add	1,234.48	
For >25 To 50, Add	898.79	
For >50 To 100, Add	449.40	
For >500 To 1,000, Deduct	-171.42	
For >1,000 To 2,000, Deduct	-259.36	
For >2,000 To 5,000, Deduct	-423.85	
For >5,000, Deduct	-703.45	
33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0203 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	964.77	
For Vinylester Resin, Add	641.52	
For Epoxy Resin, Add	75.61	
For Up To >10, Add	603.19	
For >10 To 25, Add	349.91	
For >25 To 50, Add	255.77	
For >50 To 100, Add	127.89	
For >500 To 1,000, Deduct	-49.45	
For >1,000 To 2,000, Deduct	-74.77	
For >2,000 To 5,000, Deduct	-122.05	
For >5,000, Deduct	-202.62	
33 01 30 72-0204 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,091.67	
For Vinylester Resin, Add	725.86	
For Epoxy Resin, Add	85.55	
For Up To >10, Add	682.66	
For >10 To 25, Add	396.06	
For >25 To 50, Add	289.48	
For >50 To 100, Add	144.74	
For >500 To 1,000, Deduct	-55.95	
For >1,000 To 2,000, Deduct	-84.61	
For >2,000 To 5,000, Deduct	-138.12	
For >5,000, Deduct	-229.28	
33 01 30 72-0205 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,218.53	
For Vinylester Resin, Add	810.19	
For Epoxy Resin, Add	95.49	
For Up To >10, Add	762.07	
For >10 To 25, Add	442.15	
For >25 To 50, Add	323.16	
For >50 To 100, Add	161.58	
For >500 To 1,000, Deduct	-62.45	
For >1,000 To 2,000, Deduct	-94.45	
For >2,000 To 5,000, Deduct	-154.17	
For >5,000, Deduct	-255.93	
33 01 30 72-0206 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,472.15	
For Vinylester Resin, Add	978.87	
For Epoxy Resin, Add	115.37	
For Up To >10, Add	920.50	
For >10 To 25, Add	534.02	
For >25 To 50, Add	390.33	
For >50 To 100, Add	195.17	
For >500 To 1,000, Deduct	-75.45	
For >1,000 To 2,000, Deduct	-114.10	
For >2,000 To 5,000, Deduct	-186.25	
For >5,000, Deduct	-309.18	
33 01 30 72-0207 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,725.93	
For Vinylester Resin, Add	1,147.55	
For Epoxy Resin, Add	135.25	
For Up To >10, Add	1,079.42	
For >10 To 25, Add	626.29	
For >25 To 50, Add	457.74	
For >50 To 100, Add	228.87	
For >500 To 1,000, Deduct	-88.46	
For >1,000 To 2,000, Deduct	-133.77	
For >2,000 To 5,000, Deduct	-218.37	
For >5,000, Deduct	-362.50	
33 01 30 72-0208 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,979.56	
For Vinylester Resin, Add	1,316.23	
For Epoxy Resin, Add	155.13	
For Up To >10, Add	1,237.86	
For >10 To 25, Add	718.16	
For >25 To 50, Add	524.91	
For >50 To 100, Add	262.46	
For >500 To 1,000, Deduct	-101.46	
For >1,000 To 2,000, Deduct	-153.43	
For >2,000 To 5,000, Deduct	-250.45	
For >5,000, Deduct	-415.76	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0209	LF		30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,233.34	
			For Vinylester Resin, Add	1,484.91	
			For Epoxy Resin, Add	175.01	
			For Up To >10, Add	1,396.77	
			For >10 To 25, Add	810.43	
			For >25 To 50, Add	592.32	
			For >50 To 100, Add	296.16	
			For >500 To 1,000, Deduct	-114.47	
			For >1,000 To 2,000, Deduct	-173.10	
			For >2,000 To 5,000, Deduct	-282.57	
			For >5,000, Deduct	-469.08	
33 01 30 72-0210	LF		30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,486.96	
			For Vinylester Resin, Add	1,653.59	
			For Epoxy Resin, Add	194.89	
			For Up To >10, Add	1,555.21	
			For >10 To 25, Add	902.29	
			For >25 To 50, Add	659.49	
			For >50 To 100, Add	329.74	
			For >500 To 1,000, Deduct	-127.47	
			For >1,000 To 2,000, Deduct	-192.76	
			For >2,000 To 5,000, Deduct	-314.64	
			For >5,000, Deduct	-522.33	
33 01 30 72-0211	LF		30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,747.60	
			For Vinylester Resin, Add	1,822.27	
			For Epoxy Resin, Add	214.77	
			For Up To >10, Add	1,734.70	
			For >10 To 25, Add	1,011.71	
			For >25 To 50, Add	737.19	
			For >50 To 100, Add	368.59	
			For >500 To 1,000, Deduct	-140.99	
			For >1,000 To 2,000, Deduct	-213.29	
			For >2,000 To 5,000, Deduct	-348.48	
			For >5,000, Deduct	-578.39	
33 01 30 72-0212	LF		30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,001.83	
			For Vinylester Resin, Add	1,990.95	
			For Epoxy Resin, Add	234.65	
			For Up To >10, Add	1,894.97	
			For >10 To 25, Add	1,105.10	
			For >25 To 50, Add	805.27	
			For >50 To 100, Add	402.64	
			For >500 To 1,000, Deduct	-154.03	
			For >1,000 To 2,000, Deduct	-233.02	
			For >2,000 To 5,000, Deduct	-380.71	
			For >5,000, Deduct	-631.89	
33 01 30 72-0213	LF		30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,256.21	
			For Vinylester Resin, Add	2,159.63	
			For Epoxy Resin, Add	254.53	
			For Up To >10, Add	2,055.68	
			For >10 To 25, Add	1,198.87	
			For >25 To 50, Add	873.58	
			For >50 To 100, Add	436.79	
			For >500 To 1,000, Deduct	-167.09	
			For >1,000 To 2,000, Deduct	-252.77	
			For >2,000 To 5,000, Deduct	-412.98	
			For >5,000, Deduct	-685.45	
33 01 30 72-0214	LF		30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,510.59	
			For Vinylester Resin, Add	2,328.31	
			For Epoxy Resin, Add	274.41	
			For Up To >10, Add	2,216.40	
			For >10 To 25, Add	1,292.64	
			For >25 To 50, Add	941.89	
			For >50 To 100, Add	470.95	
			For >500 To 1,000, Deduct	-180.14	
			For >1,000 To 2,000, Deduct	-272.52	
			For >2,000 To 5,000, Deduct	-445.25	
			For >5,000, Deduct	-739.01	
33 01 30 72-0215	LF		30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,764.82	
			For Vinylester Resin, Add	2,496.98	
			For Epoxy Resin, Add	294.29	
			For Up To >10, Add	2,376.66	
			For >10 To 25, Add	1,386.03	
			For >25 To 50, Add	1,009.97	
			For >50 To 100, Add	504.99	
			For >500 To 1,000, Deduct	-193.18	
			For >1,000 To 2,000, Deduct	-292.25	
			For >2,000 To 5,000, Deduct	-477.48	
			For >5,000, Deduct	-792.50	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0216 LF 30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,019.21	
For Vinylester Resin, Add	2,665.66	
For Epoxy Resin, Add	314.17	
For Up To >10, Add	2,537.41	
For >10 To 25, Add	1,479.82	
For >25 To 50, Add	1,078.30	
For >50 To 100, Add	539.15	
For >500 To 1,000, Deduct	-206.24	
For >1,000 To 2,000, Deduct	-312.00	
For >2,000 To 5,000, Deduct	-509.75	
For >5,000, Deduct	-846.07	
33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0218 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,009.78	
For Vinylester Resin, Add	671.85	
For Epoxy Resin, Add	79.18	
For Up To >10, Add	629.89	
For >10 To 25, Add	364.95	
For >25 To 50, Add	266.96	
For >50 To 100, Add	133.48	
For >500 To 1,000, Deduct	-51.74	
For >1,000 To 2,000, Deduct	-78.23	
For >2,000 To 5,000, Deduct	-127.67	
For >5,000, Deduct	-211.96	
33 01 30 72-0219 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,142.84	
For Vinylester Resin, Add	760.40	
For Epoxy Resin, Add	89.62	
For Up To >10, Add	712.80	
For >10 To 25, Add	412.95	
For >25 To 50, Add	302.08	
For >50 To 100, Add	151.04	
For >500 To 1,000, Deduct	-58.56	
For >1,000 To 2,000, Deduct	-88.54	
For >2,000 To 5,000, Deduct	-144.49	
For >5,000, Deduct	-239.88	
33 01 30 72-0220 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,275.90	
For Vinylester Resin, Add	848.95	
For Epoxy Resin, Add	100.06	
For Up To >10, Add	795.73	
For >10 To 25, Add	460.97	
For >25 To 50, Add	337.22	
For >50 To 100, Add	168.61	
For >500 To 1,000, Deduct	-65.37	
For >1,000 To 2,000, Deduct	-98.85	
For >2,000 To 5,000, Deduct	-161.31	
For >5,000, Deduct	-267.80	
33 01 30 72-0221 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,542.18	
For Vinylester Resin, Add	1,026.07	
For Epoxy Resin, Add	120.93	
For Up To >10, Add	962.02	
For >10 To 25, Add	557.38	
For >25 To 50, Add	407.72	
For >50 To 100, Add	203.86	
For >500 To 1,000, Deduct	-79.02	
For >1,000 To 2,000, Deduct	-119.48	
For >2,000 To 5,000, Deduct	-194.99	
For >5,000, Deduct	-323.71	
33 01 30 72-0222 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,808.31	
For Vinylester Resin, Add	1,203.19	
For Epoxy Resin, Add	141.80	
For Up To >10, Add	1,127.83	
For >10 To 25, Add	653.39	
For >25 To 50, Add	477.97	
For >50 To 100, Add	238.99	
For >500 To 1,000, Deduct	-92.65	
For >1,000 To 2,000, Deduct	-140.10	
For >2,000 To 5,000, Deduct	-228.63	
For >5,000, Deduct	-379.56	
33 01 30 72-0223 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,074.60	
For Vinylester Resin, Add	1,380.30	
For Epoxy Resin, Add	162.68	
For Up To >10, Add	1,294.15	
For >10 To 25, Add	749.82	
For >25 To 50, Add	548.48	
For >50 To 100, Add	274.24	
For >500 To 1,000, Deduct	-106.30	
For >1,000 To 2,000, Deduct	-160.73	
For >2,000 To 5,000, Deduct	-262.31	
For >5,000, Deduct	-435.47	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0224	LF		31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,340.72	
			For Vinylester Resin, Add	1,557.41	
			For Epoxy Resin, Add	183.55	
			For Up To >10, Add	1,459.99	
			For >10 To 25, Add	845.84	
			For >25 To 50, Add	618.75	
			For >50 To 100, Add	309.37	
			For >500 To 1,000, Deduct	-119.93	
			For >1,000 To 2,000, Deduct	-181.35	
			For >2,000 To 5,000, Deduct	-295.95	
			For >5,000, Deduct	-491.31	
33 01 30 72-0225	LF		31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,606.85	
			For Vinylester Resin, Add	1,734.52	
			For Epoxy Resin, Add	204.43	
			For Up To >10, Add	1,625.83	
			For >10 To 25, Add	941.87	
			For >25 To 50, Add	689.02	
			For >50 To 100, Add	344.51	
			For >500 To 1,000, Deduct	-133.57	
			For >1,000 To 2,000, Deduct	-201.96	
			For >2,000 To 5,000, Deduct	-329.59	
			For >5,000, Deduct	-547.16	
33 01 30 72-0226	LF		31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,880.29	
			For Vinylester Resin, Add	1,911.64	
			For Epoxy Resin, Add	225.30	
			For Up To >10, Add	1,813.60	
			For >10 To 25, Add	1,056.18	
			For >25 To 50, Add	770.25	
			For >50 To 100, Add	385.13	
			For >500 To 1,000, Deduct	-147.75	
			For >1,000 To 2,000, Deduct	-223.49	
			For >2,000 To 5,000, Deduct	-365.05	
			For >5,000, Deduct	-605.93	
33 01 30 72-0227	LF		31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,167.71	
			For Vinylester Resin, Add	2,103.02	
			For Epoxy Resin, Add	247.86	
			For Up To >10, Add	1,992.36	
			For >10 To 25, Add	1,159.58	
			For >25 To 50, Add	845.96	
			For >50 To 100, Add	422.98	
			For >500 To 1,000, Deduct	-162.47	
			For >1,000 To 2,000, Deduct	-245.75	
			For >2,000 To 5,000, Deduct	-401.37	
			For >5,000, Deduct	-666.22	
33 01 30 72-0228	LF		31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,413.93	
			For Vinylester Resin, Add	2,265.87	
			For Epoxy Resin, Add	267.05	
			For Up To >10, Add	2,149.42	
			For >10 To 25, Add	1,251.69	
			For >25 To 50, Add	912.86	
			For >50 To 100, Add	456.43	
			For >500 To 1,000, Deduct	-175.12	
			For >1,000 To 2,000, Deduct	-264.89	
			For >2,000 To 5,000, Deduct	-432.68	
			For >5,000, Deduct	-718.18	
33 01 30 72-0229	LF		31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,680.81	
			For Vinylester Resin, Add	2,442.98	
			For Epoxy Resin, Add	287.92	
			For Up To >10, Add	2,317.51	
			For >10 To 25, Add	1,349.59	
			For >25 To 50, Add	984.25	
			For >50 To 100, Add	492.13	
			For >500 To 1,000, Deduct	-188.81	
			For >1,000 To 2,000, Deduct	-285.60	
			For >2,000 To 5,000, Deduct	-466.51	
			For >5,000, Deduct	-774.33	
33 01 30 72-0230	LF		31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,947.56	
			For Vinylester Resin, Add	2,620.09	
			For Epoxy Resin, Add	308.80	
			For Up To >10, Add	2,485.21	
			For >10 To 25, Add	1,447.17	
			For >25 To 50, Add	1,055.45	
			For >50 To 100, Add	527.73	
			For >500 To 1,000, Deduct	-202.49	
			For >1,000 To 2,000, Deduct	-306.30	
			For >2,000 To 5,000, Deduct	-500.30	
			For >5,000, Deduct	-830.43	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0231 LF 31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,214.43	
For Vinylester Resin, Add	2,797.20	
For Epoxy Resin, Add	329.67	
For Up To >10, Add	2,653.29	
For >10 To 25, Add	1,545.08	
For >25 To 50, Add	1,126.85	
For >50 To 100, Add	563.42	
For >500 To 1,000, Deduct	-216.18	
For >1,000 To 2,000, Deduct	-327.00	
For >2,000 To 5,000, Deduct	-534.13	
For >5,000, Deduct	-886.57	
33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0233 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,054.40	
For Vinylester Resin, Add	702.02	
For Epoxy Resin, Add	82.74	
For Up To >10, Add	656.00	
For >10 To 25, Add	379.52	
For >25 To 50, Add	277.86	
For >50 To 100, Add	138.93	
For >500 To 1,000, Deduct	-54.01	
For >1,000 To 2,000, Deduct	-81.66	
For >2,000 To 5,000, Deduct	-133.23	
For >5,000, Deduct	-221.18	
33 01 30 72-0234 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,193.78	
For Vinylester Resin, Add	794.78	
For Epoxy Resin, Add	93.67	
For Up To >10, Add	742.84	
For >10 To 25, Add	429.80	
For >25 To 50, Add	314.65	
For >50 To 100, Add	157.33	
For >500 To 1,000, Deduct	-61.15	
For >1,000 To 2,000, Deduct	-92.45	
For >2,000 To 5,000, Deduct	-150.84	
For >5,000, Deduct	-250.43	
33 01 30 72-0235 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,333.03	
For Vinylester Resin, Add	887.56	
For Epoxy Resin, Add	104.61	
For Up To >10, Add	829.24	
For >10 To 25, Add	479.71	
For >25 To 50, Add	351.22	
For >50 To 100, Add	175.61	
For >500 To 1,000, Deduct	-68.28	
For >1,000 To 2,000, Deduct	-103.23	
For >2,000 To 5,000, Deduct	-168.43	
For >5,000, Deduct	-279.62	
33 01 30 72-0236 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,611.81	
For Vinylester Resin, Add	1,073.11	
For Epoxy Resin, Add	126.47	
For Up To >10, Add	1,002.91	
For >10 To 25, Add	580.25	
For >25 To 50, Add	424.80	
For >50 To 100, Add	212.40	
For >500 To 1,000, Deduct	-82.56	
For >1,000 To 2,000, Deduct	-124.83	
For >2,000 To 5,000, Deduct	-203.66	
For >5,000, Deduct	-338.12	
33 01 30 72-0237 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,890.45	
For Vinylester Resin, Add	1,258.65	
For Epoxy Resin, Add	148.34	
For Up To >10, Add	1,176.18	
For >10 To 25, Add	680.47	
For >25 To 50, Add	498.18	
For >50 To 100, Add	249.09	
For >500 To 1,000, Deduct	-96.83	
For >1,000 To 2,000, Deduct	-146.40	
For >2,000 To 5,000, Deduct	-238.86	
For >5,000, Deduct	-396.57	
33 01 30 72-0238 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,169.24	
For Vinylester Resin, Add	1,444.21	
For Epoxy Resin, Add	170.21	
For Up To >10, Add	1,349.85	
For >10 To 25, Add	781.01	
For >25 To 50, Add	571.77	
For >50 To 100, Add	285.88	
For >500 To 1,000, Deduct	-111.11	
For >1,000 To 2,000, Deduct	-168.00	
For >2,000 To 5,000, Deduct	-274.10	
For >5,000, Deduct	-455.07	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0239	LF		33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,447.87	
			For Vinylester Resin, Add	1,629.75	
			For Epoxy Resin, Add	192.08	
			For Up To >10, Add	1,523.09	
			For >10 To 25, Add	881.20	
			For >25 To 50, Add	645.13	
			For >50 To 100, Add	322.57	
			For >500 To 1,000, Deduct	-125.39	
			For >1,000 To 2,000, Deduct	-189.57	
			For >2,000 To 5,000, Deduct	-309.30	
			For >5,000, Deduct	-513.51	
33 01 30 72-0240	LF		33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,726.51	
			For Vinylester Resin, Add	1,815.30	
			For Epoxy Resin, Add	213.95	
			For Up To >10, Add	1,696.33	
			For >10 To 25, Add	981.40	
			For >25 To 50, Add	718.50	
			For >50 To 100, Add	359.25	
			For >500 To 1,000, Deduct	-139.66	
			For >1,000 To 2,000, Deduct	-211.15	
			For >2,000 To 5,000, Deduct	-344.50	
			For >5,000, Deduct	-571.95	
33 01 30 72-0241	LF		33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,012.60	
			For Vinylester Resin, Add	2,000.84	
			For Epoxy Resin, Add	235.81	
			For Up To >10, Add	1,891.95	
			For >10 To 25, Add	1,100.24	
			For >25 To 50, Add	803.06	
			For >50 To 100, Add	401.53	
			For >500 To 1,000, Deduct	-154.49	
			For >1,000 To 2,000, Deduct	-233.66	
			For >2,000 To 5,000, Deduct	-381.57	
			For >5,000, Deduct	-633.37	
33 01 30 72-0242	LF		33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,292.46	
			For Vinylester Resin, Add	2,186.39	
			For Epoxy Resin, Add	257.68	
			For Up To >10, Add	2,068.83	
			For >10 To 25, Add	1,203.46	
			For >25 To 50, Add	878.24	
			For >50 To 100, Add	439.12	
			For >500 To 1,000, Deduct	-168.85	
			For >1,000 To 2,000, Deduct	-255.39	
			For >2,000 To 5,000, Deduct	-417.07	
			For >5,000, Deduct	-692.30	
33 01 30 72-0243	LF		33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,571.24	
			For Vinylester Resin, Add	2,371.94	
			For Epoxy Resin, Add	279.55	
			For Up To >10, Add	2,242.52	
			For >10 To 25, Add	1,304.02	
			For >25 To 50, Add	951.84	
			For >50 To 100, Add	475.92	
			For >500 To 1,000, Deduct	-183.13	
			For >1,000 To 2,000, Deduct	-276.98	
			For >2,000 To 5,000, Deduct	-452.31	
			For >5,000, Deduct	-750.80	
33 01 30 72-0244	LF		33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,850.64	
			For Vinylester Resin, Add	2,557.49	
			For Epoxy Resin, Add	301.42	
			For Up To >10, Add	2,418.05	
			For >10 To 25, Add	1,406.11	
			For >25 To 50, Add	1,026.35	
			For >50 To 100, Add	513.17	
			For >500 To 1,000, Deduct	-197.46	
			For >1,000 To 2,000, Deduct	-298.65	
			For >2,000 To 5,000, Deduct	-487.70	
			For >5,000, Deduct	-809.55	
33 01 30 72-0245	LF		33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,130.03	
			For Vinylester Resin, Add	2,743.03	
			For Epoxy Resin, Add	323.29	
			For Up To >10, Add	2,593.57	
			For >10 To 25, Add	1,508.20	
			For >25 To 50, Add	1,100.85	
			For >50 To 100, Add	550.43	
			For >500 To 1,000, Deduct	-211.79	
			For >1,000 To 2,000, Deduct	-320.32	
			For >2,000 To 5,000, Deduct	-523.09	
			For >5,000, Deduct	-868.29	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0246 LF 33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,409.43	
For Vinylester Resin, Add	2,928.58	
For Epoxy Resin, Add	345.15	
For Up To >10, Add	2,769.09	
For >10 To 25, Add	1,610.30	
For >25 To 50, Add	1,175.36	
For >50 To 100, Add	587.68	
For >500 To 1,000, Deduct	-226.12	
For >1,000 To 2,000, Deduct	-341.99	
For >2,000 To 5,000, Deduct	-558.48	
For >5,000, Deduct	-927.04	
33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0248 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,244.05	
For Vinylester Resin, Add	829.00	
For Epoxy Resin, Add	97.70	
For Up To >10, Add	771.43	
For >10 To 25, Add	445.47	
For >25 To 50, Add	326.50	
For >50 To 100, Add	163.25	
For >500 To 1,000, Deduct	-63.70	
For >1,000 To 2,000, Deduct	-96.29	
For >2,000 To 5,000, Deduct	-157.05	
For >5,000, Deduct	-260.76	
33 01 30 72-0249 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,389.61	
For Vinylester Resin, Add	925.99	
For Epoxy Resin, Add	109.13	
For Up To >10, Add	861.73	
For >10 To 25, Add	497.64	
For >25 To 50, Add	364.72	
For >50 To 100, Add	182.36	
For >500 To 1,000, Deduct	-71.15	
For >1,000 To 2,000, Deduct	-107.56	
For >2,000 To 5,000, Deduct	-175.43	
For >5,000, Deduct	-291.28	
33 01 30 72-0250 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,680.75	
For Vinylester Resin, Add	1,119.98	
For Epoxy Resin, Add	132.00	
For Up To >10, Add	1,042.33	
For >10 To 25, Add	601.94	
For >25 To 50, Add	441.16	
For >50 To 100, Add	220.58	
For >500 To 1,000, Deduct	-86.06	
For >1,000 To 2,000, Deduct	-130.10	
For >2,000 To 5,000, Deduct	-212.19	
For >5,000, Deduct	-352.31	
33 01 30 72-0251 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,971.74	
For Vinylester Resin, Add	1,313.96	
For Epoxy Resin, Add	154.86	
For Up To >10, Add	1,222.52	
For >10 To 25, Add	705.92	
For >25 To 50, Add	517.41	
For >50 To 100, Add	258.70	
For >500 To 1,000, Deduct	-100.95	
For >1,000 To 2,000, Deduct	-152.61	
For >2,000 To 5,000, Deduct	-248.91	
For >5,000, Deduct	-413.28	
33 01 30 72-0252 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,262.88	
For Vinylester Resin, Add	1,507.93	
For Epoxy Resin, Add	177.72	
For Up To >10, Add	1,403.17	
For >10 To 25, Add	810.27	
For >25 To 50, Add	593.87	
For >50 To 100, Add	296.94	
For >500 To 1,000, Deduct	-115.86	
For >1,000 To 2,000, Deduct	-175.15	
For >2,000 To 5,000, Deduct	-285.68	
For >5,000, Deduct	-474.31	
33 01 30 72-0253 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,553.86	
For Vinylester Resin, Add	1,701.92	
For Epoxy Resin, Add	200.58	
For Up To >10, Add	1,583.31	
For >10 To 25, Add	914.20	
For >25 To 50, Add	670.09	
For >50 To 100, Add	335.04	
For >500 To 1,000, Deduct	-130.76	
For >1,000 To 2,000, Deduct	-197.67	
For >2,000 To 5,000, Deduct	-322.39	
For >5,000, Deduct	-535.28	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0254	LF		34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,845.01	
			For Vinylester Resin, Add	1,895.90	
			For Epoxy Resin, Add	223.45	
			For Up To >10, Add	1,763.96	
			For >10 To 25, Add	1,018.56	
			For >25 To 50, Add	746.56	
			For >50 To 100, Add	373.28	
			For >500 To 1,000, Deduct	-145.67	
			For >1,000 To 2,000, Deduct	-220.20	
			For >2,000 To 5,000, Deduct	-359.16	
			For >5,000, Deduct	-596.32	
33 01 30 72-0255	LF		34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,143.61	
			For Vinylester Resin, Add	2,089.88	
			For Epoxy Resin, Add	246.31	
			For Up To >10, Add	1,966.98	
			For >10 To 25, Add	1,141.56	
			For >25 To 50, Add	834.21	
			For >50 To 100, Add	417.11	
			For >500 To 1,000, Deduct	-161.13	
			For >1,000 To 2,000, Deduct	-243.67	
			For >2,000 To 5,000, Deduct	-397.78	
			For >5,000, Deduct	-660.34	
33 01 30 72-0256	LF		34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,435.66	
			For Vinylester Resin, Add	2,283.86	
			For Epoxy Resin, Add	269.17	
			For Up To >10, Add	2,150.36	
			For >10 To 25, Add	1,248.19	
			For >25 To 50, Add	912.05	
			For >50 To 100, Add	456.02	
			For >500 To 1,000, Deduct	-176.11	
			For >1,000 To 2,000, Deduct	-266.33	
			For >2,000 To 5,000, Deduct	-434.77	
			For >5,000, Deduct	-721.73	
33 01 30 72-0257	LF		34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,724.67	
			For Vinylester Resin, Add	2,477.84	
			For Epoxy Resin, Add	292.03	
			For Up To >10, Add	2,324.59	
			For >10 To 25, Add	1,347.19	
			For >25 To 50, Add	985.30	
			For >50 To 100, Add	492.65	
			For >500 To 1,000, Deduct	-190.86	
			For >1,000 To 2,000, Deduct	-288.60	
			For >2,000 To 5,000, Deduct	-471.00	
			For >5,000, Deduct	-781.91	
33 01 30 72-0258	LF		34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,019.01	
			For Vinylester Resin, Add	2,671.82	
			For Epoxy Resin, Add	314.89	
			For Up To >10, Add	2,514.81	
			For >10 To 25, Add	1,459.52	
			For >25 To 50, Add	1,066.56	
			For >50 To 100, Add	533.28	
			For >500 To 1,000, Deduct	-206.00	
			For >1,000 To 2,000, Deduct	-311.53	
			For >2,000 To 5,000, Deduct	-508.56	
			For >5,000, Deduct	-844.23	
33 01 30 72-0259	LF		34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,310.77	
			For Vinylester Resin, Add	2,865.81	
			For Epoxy Resin, Add	337.76	
			For Up To >10, Add	2,697.29	
			For >10 To 25, Add	1,565.40	
			For >25 To 50, Add	1,143.94	
			For >50 To 100, Add	571.97	
			For >500 To 1,000, Deduct	-220.96	
			For >1,000 To 2,000, Deduct	-334.15	
			For >2,000 To 5,000, Deduct	-545.47	
			For >5,000, Deduct	-905.51	
33 01 30 72-0260	LF		34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,602.51	
			For Vinylester Resin, Add	3,059.78	
			For Epoxy Resin, Add	360.62	
			For Up To >10, Add	2,879.73	
			For >10 To 25, Add	1,671.26	
			For >25 To 50, Add	1,221.31	
			For >50 To 100, Add	610.65	
			For >500 To 1,000, Deduct	-235.91	
			For >1,000 To 2,000, Deduct	-356.76	
			For >2,000 To 5,000, Deduct	-582.38	
			For >5,000, Deduct	-966.78	

33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0262 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,294.05	
For Vinylester Resin, Add	863.05	
For Epoxy Resin, Add	101.72	
For Up To >10, Add	799.83	
For >10 To 25, Add	461.03	
For >25 To 50, Add	338.27	
For >50 To 100, Add	169.13	
For >500 To 1,000, Deduct	-66.23	
For >1,000 To 2,000, Deduct	-100.11	
For >2,000 To 5,000, Deduct	-163.23	
For >5,000, Deduct	-271.03	
33 01 30 72-0263 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,445.80	
For Vinylester Resin, Add	964.26	
For Epoxy Resin, Add	113.64	
For Up To >10, Add	893.63	
For >10 To 25, Add	515.10	
For >25 To 50, Add	377.94	
For >50 To 100, Add	188.97	
For >500 To 1,000, Deduct	-74.00	
For >1,000 To 2,000, Deduct	-111.85	
For >2,000 To 5,000, Deduct	-182.37	
For >5,000, Deduct	-302.82	
33 01 30 72-0264 LF 36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,749.30	
For Vinylester Resin, Add	1,166.68	
For Epoxy Resin, Add	137.50	
For Up To >10, Add	1,081.20	
For >10 To 25, Add	623.22	
For >25 To 50, Add	457.27	
For >50 To 100, Add	228.63	
For >500 To 1,000, Deduct	-89.53	
For >1,000 To 2,000, Deduct	-135.33	
For >2,000 To 5,000, Deduct	-220.66	
For >5,000, Deduct	-366.38	
33 01 30 72-0265 LF 36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,052.80	
For Vinylester Resin, Add	1,369.10	
For Epoxy Resin, Add	161.36	
For Up To >10, Add	1,268.78	
For >10 To 25, Add	731.34	
For >25 To 50, Add	536.60	
For >50 To 100, Add	268.30	
For >500 To 1,000, Deduct	-105.06	
For >1,000 To 2,000, Deduct	-158.81	
For >2,000 To 5,000, Deduct	-258.94	
For >5,000, Deduct	-429.95	
33 01 30 72-0266 LF 36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,356.13	
For Vinylester Resin, Add	1,571.51	
For Epoxy Resin, Add	185.21	
For Up To >10, Add	1,455.87	
For >10 To 25, Add	839.05	
For >25 To 50, Add	615.68	
For >50 To 100, Add	307.84	
For >500 To 1,000, Deduct	-120.58	
For >1,000 To 2,000, Deduct	-182.27	
For >2,000 To 5,000, Deduct	-297.18	
For >5,000, Deduct	-493.45	
33 01 30 72-0267 LF 36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,659.63	
For Vinylester Resin, Add	1,773.93	
For Epoxy Resin, Add	209.07	
For Up To >10, Add	1,643.44	
For >10 To 25, Add	947.17	
For >25 To 50, Add	695.01	
For >50 To 100, Add	347.51	
For >500 To 1,000, Deduct	-136.12	
For >1,000 To 2,000, Deduct	-205.74	
For >2,000 To 5,000, Deduct	-335.46	
For >5,000, Deduct	-557.02	
33 01 30 72-0268 LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,963.12	
For Vinylester Resin, Add	1,976.34	
For Epoxy Resin, Add	232.93	
For Up To >10, Add	1,831.01	
For >10 To 25, Add	1,055.29	
For >25 To 50, Add	774.34	
For >50 To 100, Add	387.17	
For >500 To 1,000, Deduct	-151.65	
For >1,000 To 2,000, Deduct	-229.22	
For >2,000 To 5,000, Deduct	-373.75	
For >5,000, Deduct	-620.58	



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Sewer Utilities		33 01 30	

MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0269	LF		36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,274.38	
			For Vinylester Resin, Add	2,178.75	
			For Epoxy Resin, Add	256.78	
			For Up To >10, Add	2,041.89	
			For >10 To 25, Add	1,182.83	
			For >25 To 50, Add	865.32	
			For >50 To 100, Add	432.66	
			For >500 To 1,000, Deduct	-167.77	
			For >1,000 To 2,000, Deduct	-253.67	
			For >2,000 To 5,000, Deduct	-413.97	
			For >5,000, Deduct	-687.25	
33 01 30 72-0270	LF		36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,578.65	
			For Vinylester Resin, Add	2,381.17	
			For Epoxy Resin, Add	280.64	
			For Up To >10, Add	2,231.78	
			For >10 To 25, Add	1,292.87	
			For >25 To 50, Add	945.80	
			For >50 To 100, Add	472.90	
			For >500 To 1,000, Deduct	-183.36	
			For >1,000 To 2,000, Deduct	-277.25	
			For >2,000 To 5,000, Deduct	-452.45	
			For >5,000, Deduct	-751.13	
33 01 30 72-0271	LF		36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,877.71	
			For Vinylester Resin, Add	2,583.58	
			For Epoxy Resin, Add	304.49	
			For Up To >10, Add	2,406.06	
			For >10 To 25, Add	1,389.91	
			For >25 To 50, Add	1,018.49	
			For >50 To 100, Add	509.24	
			For >500 To 1,000, Deduct	-198.56	
			For >1,000 To 2,000, Deduct	-300.17	
			For >2,000 To 5,000, Deduct	-489.62	
			For >5,000, Deduct	-812.92	
33 01 30 72-0272	LF		36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,186.99	
			For Vinylester Resin, Add	2,785.99	
			For Epoxy Resin, Add	328.35	
			For Up To >10, Add	2,611.00	
			For >10 To 25, Add	1,512.50	
			For >25 To 50, Add	1,106.50	
			For >50 To 100, Add	553.25	
			For >500 To 1,000, Deduct	-214.52	
			For >1,000 To 2,000, Deduct	-324.37	
			For >2,000 To 5,000, Deduct	-529.35	
			For >5,000, Deduct	-878.80	
33 01 30 72-0273	LF		36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,491.25	
			For Vinylester Resin, Add	2,988.41	
			For Epoxy Resin, Add	352.21	
			For Up To >10, Add	2,800.85	
			For >10 To 25, Add	1,622.52	
			For >25 To 50, Add	1,186.97	
			For >50 To 100, Add	593.48	
			For >500 To 1,000, Deduct	-230.11	
			For >1,000 To 2,000, Deduct	-347.95	
			For >2,000 To 5,000, Deduct	-567.82	
			For >5,000, Deduct	-942.67	
33 01 30 72-0274	LF		36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,795.51	
			For Vinylester Resin, Add	3,190.82	
			For Epoxy Resin, Add	376.06	
			For Up To >10, Add	2,990.73	
			For >10 To 25, Add	1,732.56	
			For >25 To 50, Add	1,267.45	
			For >50 To 100, Add	633.72	
			For >500 To 1,000, Deduct	-245.71	
			For >1,000 To 2,000, Deduct	-371.52	
			For >2,000 To 5,000, Deduct	-606.30	
			For >5,000, Deduct	-1,006.54	
33 01 30 72-0275	LF		36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,099.61	
			For Vinylester Resin, Add	3,393.24	
			For Epoxy Resin, Add	399.92	
			For Up To >10, Add	3,180.11	
			For >10 To 25, Add	1,842.17	
			For >25 To 50, Add	1,347.68	
			For >50 To 100, Add	673.84	
			For >500 To 1,000, Deduct	-261.28	
			For >1,000 To 2,000, Deduct	-395.08	
			For >2,000 To 5,000, Deduct	-644.73	
			For >5,000, Deduct	-1,070.35	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0276 LF 36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,403.87	
For Vinylester Resin, Add	3,595.66	
For Epoxy Resin, Add	423.77	
For Up To >10, Add	3,369.99	
For >10 To 25, Add	1,952.21	
For >25 To 50, Add	1,428.16	
For >50 To 100, Add	714.08	
For >500 To 1,000, Deduct	-276.87	
For >1,000 To 2,000, Deduct	-418.65	
For >2,000 To 5,000, Deduct	-683.20	
For >5,000, Deduct	-1,134.22	
33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0278 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,501.61	
For Vinylester Resin, Add	1,002.37	
For Epoxy Resin, Add	118.14	
For Up To >10, Add	924.96	
For >10 To 25, Add	532.14	
For >25 To 50, Add	390.88	
For >50 To 100, Add	195.44	
For >500 To 1,000, Deduct	-76.82	
For >1,000 To 2,000, Deduct	-116.10	
For >2,000 To 5,000, Deduct	-189.25	
For >5,000, Deduct	-314.25	
33 01 30 72-0279 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,817.46	
For Vinylester Resin, Add	1,213.21	
For Epoxy Resin, Add	142.99	
For Up To >10, Add	1,119.48	
For >10 To 25, Add	644.04	
For >25 To 50, Add	473.08	
For >50 To 100, Add	236.54	
For >500 To 1,000, Deduct	-92.98	
For >1,000 To 2,000, Deduct	-140.52	
For >2,000 To 5,000, Deduct	-229.05	
For >5,000, Deduct	-380.35	
33 01 30 72-0280 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,133.30	
For Vinylester Resin, Add	1,424.06	
For Epoxy Resin, Add	167.84	
For Up To >10, Add	1,313.98	
For >10 To 25, Add	755.92	
For >25 To 50, Add	555.27	
For >50 To 100, Add	277.63	
For >500 To 1,000, Deduct	-109.14	
For >1,000 To 2,000, Deduct	-164.94	
For >2,000 To 5,000, Deduct	-268.86	
For >5,000, Deduct	-446.45	
33 01 30 72-0281 LF 37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,449.15	
For Vinylester Resin, Add	1,634.91	
For Epoxy Resin, Add	192.69	
For Up To >10, Add	1,508.48	
For >10 To 25, Add	867.80	
For >25 To 50, Add	637.46	
For >50 To 100, Add	318.73	
For >500 To 1,000, Deduct	-125.30	
For >1,000 To 2,000, Deduct	-189.36	
For >2,000 To 5,000, Deduct	-308.66	
For >5,000, Deduct	-512.54	
33 01 30 72-0282 LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,764.99	
For Vinylester Resin, Add	1,845.76	
For Epoxy Resin, Add	217.54	
For Up To >10, Add	1,702.97	
For >10 To 25, Add	979.68	
For >25 To 50, Add	719.65	
For >50 To 100, Add	359.82	
For >500 To 1,000, Deduct	-141.45	
For >1,000 To 2,000, Deduct	-213.78	
For >2,000 To 5,000, Deduct	-348.46	
For >5,000, Deduct	-578.64	
33 01 30 72-0283 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,080.85	
For Vinylester Resin, Add	2,056.61	
For Epoxy Resin, Add	242.39	
For Up To >10, Add	1,897.50	
For >10 To 25, Add	1,091.58	
For >25 To 50, Add	801.85	
For >50 To 100, Add	400.92	
For >500 To 1,000, Deduct	-157.61	
For >1,000 To 2,000, Deduct	-238.21	
For >2,000 To 5,000, Deduct	-388.27	
For >5,000, Deduct	-644.74	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0284	LF		37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,404.60	
			For Vinylester Resin, Add	2,267.45	
			For Epoxy Resin, Add	267.24	
			For Up To >10, Add	2,115.75	
			For >10 To 25, Add	1,223.26	
			For >25 To 50, Add	895.91	
			For >50 To 100, Add	447.96	
			For >500 To 1,000, Deduct	-174.36	
			For >1,000 To 2,000, Deduct	-263.61	
			For >2,000 To 5,000, Deduct	-430.05	
			For >5,000, Deduct	-714.00	
33 01 30 72-0285	LF		37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,721.21	
			For Vinylester Resin, Add	2,478.30	
			For Epoxy Resin, Add	292.09	
			For Up To >10, Add	2,312.56	
			For >10 To 25, Add	1,337.06	
			For >25 To 50, Add	979.26	
			For >50 To 100, Add	489.63	
			For >500 To 1,000, Deduct	-190.58	
			For >1,000 To 2,000, Deduct	-288.13	
			For >2,000 To 5,000, Deduct	-470.05	
			For >5,000, Deduct	-780.40	
33 01 30 72-0286	LF		37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,035.24	
			For Vinylester Resin, Add	2,689.16	
			For Epoxy Resin, Add	316.94	
			For Up To >10, Add	2,501.60	
			For >10 To 25, Add	1,444.39	
			For >25 To 50, Add	1,058.72	
			For >50 To 100, Add	529.36	
			For >500 To 1,000, Deduct	-206.60	
			For >1,000 To 2,000, Deduct	-312.32	
			For >2,000 To 5,000, Deduct	-509.40	
			For >5,000, Deduct	-845.77	
33 01 30 72-0287	LF		37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,354.44	
			For Vinylester Resin, Add	2,900.00	
			For Epoxy Resin, Add	341.79	
			For Up To >10, Add	2,706.17	
			For >10 To 25, Add	1,564.67	
			For >25 To 50, Add	1,145.94	
			For >50 To 100, Add	572.97	
			For >500 To 1,000, Deduct	-223.01	
			For >1,000 To 2,000, Deduct	-337.16	
			For >2,000 To 5,000, Deduct	-550.04	
			For >5,000, Deduct	-913.20	
33 01 30 72-0288	LF		37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,671.06	
			For Vinylester Resin, Add	3,110.86	
			For Epoxy Resin, Add	366.64	
			For Up To >10, Add	2,902.98	
			For >10 To 25, Add	1,678.47	
			For >25 To 50, Add	1,229.29	
			For >50 To 100, Add	614.64	
			For >500 To 1,000, Deduct	-239.23	
			For >1,000 To 2,000, Deduct	-361.68	
			For >2,000 To 5,000, Deduct	-590.03	
			For >5,000, Deduct	-979.61	
33 01 30 72-0289	LF		37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,987.51	
			For Vinylester Resin, Add	3,321.70	
			For Epoxy Resin, Add	391.49	
			For Up To >10, Add	3,099.31	
			For >10 To 25, Add	1,791.87	
			For >25 To 50, Add	1,312.39	
			For >50 To 100, Add	656.19	
			For >500 To 1,000, Deduct	-255.43	
			For >1,000 To 2,000, Deduct	-386.17	
			For >2,000 To 5,000, Deduct	-629.99	
			For >5,000, Deduct	-1,045.95	
33 01 30 72-0290	LF		37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,304.11	
			For Vinylester Resin, Add	3,532.55	
			For Epoxy Resin, Add	416.34	
			For Up To >10, Add	3,296.08	
			For >10 To 25, Add	1,905.65	
			For >25 To 50, Add	1,395.72	
			For >50 To 100, Add	697.86	
			For >500 To 1,000, Deduct	-271.65	
			For >1,000 To 2,000, Deduct	-410.69	
			For >2,000 To 5,000, Deduct	-669.98	
			For >5,000, Deduct	-1,112.34	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0291 LF 37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,620.71	
For Vinylster Resin, Add	3,743.40	
For Epoxy Resin, Add	441.19	
For Up To >10, Add	3,492.86	
For >10 To 25, Add	2,019.43	
For >25 To 50, Add	1,479.04	
For >50 To 100, Add	739.52	
For >500 To 1,000, Deduct	-287.86	
For >1,000 To 2,000, Deduct	-435.20	
For >2,000 To 5,000, Deduct	-709.98	
For >5,000, Deduct	-1,178.74	
33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0293 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	1,885.37	
For Vinylster Resin, Add	1,259.58	
For Epoxy Resin, Add	148.45	
For Up To >10, Add	1,157.61	
For >10 To 25, Add	664.78	
For >25 To 50, Add	488.84	
For >50 To 100, Add	244.42	
For >500 To 1,000, Deduct	-96.42	
For >1,000 To 2,000, Deduct	-145.70	
For >2,000 To 5,000, Deduct	-237.42	
For >5,000, Deduct	-394.27	
33 01 30 72-0294 LF 39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,213.57	
For Vinylster Resin, Add	1,478.86	
For Epoxy Resin, Add	174.29	
For Up To >10, Add	1,359.06	
For >10 To 25, Add	780.44	
For >25 To 50, Add	573.90	
For >50 To 100, Add	286.95	
For >500 To 1,000, Deduct	-113.20	
For >1,000 To 2,000, Deduct	-171.06	
For >2,000 To 5,000, Deduct	-278.75	
For >5,000, Deduct	-462.90	
33 01 30 72-0295 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,541.78	
For Vinylster Resin, Add	1,698.15	
For Epoxy Resin, Add	200.14	
For Up To >10, Add	1,560.52	
For >10 To 25, Add	896.11	
For >25 To 50, Add	658.96	
For >50 To 100, Add	329.48	
For >500 To 1,000, Deduct	-129.99	
For >1,000 To 2,000, Deduct	-196.43	
For >2,000 To 5,000, Deduct	-320.07	
For >5,000, Deduct	-531.53	
33 01 30 72-0296 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,869.96	
For Vinylster Resin, Add	1,917.43	
For Epoxy Resin, Add	225.98	
For Up To >10, Add	1,761.93	
For >10 To 25, Add	1,011.75	
For >25 To 50, Add	744.01	
For >50 To 100, Add	372.00	
For >500 To 1,000, Deduct	-146.77	
For >1,000 To 2,000, Deduct	-221.79	
For >2,000 To 5,000, Deduct	-361.40	
For >5,000, Deduct	-600.15	
33 01 30 72-0297 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,198.33	
For Vinylster Resin, Add	2,136.72	
For Epoxy Resin, Add	251.83	
For Up To >10, Add	1,963.87	
For >10 To 25, Add	1,127.81	
For >25 To 50, Add	829.31	
For >50 To 100, Add	414.66	
For >500 To 1,000, Deduct	-163.56	
For >1,000 To 2,000, Deduct	-247.17	
For >2,000 To 5,000, Deduct	-402.76	
For >5,000, Deduct	-668.84	
33 01 30 72-0298 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,534.45	
For Vinylster Resin, Add	2,356.00	
For Epoxy Resin, Add	277.67	
For Up To >10, Add	2,189.08	
For >10 To 25, Add	1,263.28	
For >25 To 50, Add	926.25	
For >50 To 100, Add	463.13	
For >500 To 1,000, Deduct	-180.94	
For >1,000 To 2,000, Deduct	-273.52	
For >2,000 To 5,000, Deduct	-446.07	
For >5,000, Deduct	-740.64	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0299	LF	39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,863.41	
		For Vinylester Resin, Add	2,575.28	
		For Epoxy Resin, Add	303.52	
		For Up To >10, Add	2,392.81	
		For >10 To 25, Add	1,380.84	
		For >25 To 50, Add	1,012.45	
		For >50 To 100, Add	506.23	
		For >500 To 1,000, Deduct	-197.78	
		For >1,000 To 2,000, Deduct	-298.98	
		For >2,000 To 5,000, Deduct	-487.59	
		For >5,000, Deduct	-809.57	
33 01 30 72-0300	LF	39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,192.37	
		For Vinylester Resin, Add	2,794.56	
		For Epoxy Resin, Add	329.36	
		For Up To >10, Add	2,596.54	
		For >10 To 25, Add	1,498.41	
		For >25 To 50, Add	1,098.66	
		For >50 To 100, Add	549.33	
		For >500 To 1,000, Deduct	-214.62	
		For >1,000 To 2,000, Deduct	-324.43	
		For >2,000 To 5,000, Deduct	-529.10	
		For >5,000, Deduct	-878.50	
33 01 30 72-0301	LF	39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,521.49	
		For Vinylester Resin, Add	3,013.84	
		For Epoxy Resin, Add	355.20	
		For Up To >10, Add	2,800.75	
		For >10 To 25, Add	1,616.37	
		For >25 To 50, Add	1,185.10	
		For >50 To 100, Add	592.55	
		For >500 To 1,000, Deduct	-231.47	
		For >1,000 To 2,000, Deduct	-349.91	
		For >2,000 To 5,000, Deduct	-570.66	
		For >5,000, Deduct	-947.50	
33 01 30 72-0302	LF	39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,850.45	
		For Vinylester Resin, Add	3,233.13	
		For Epoxy Resin, Add	381.05	
		For Up To >10, Add	3,004.45	
		For >10 To 25, Add	1,733.92	
		For >25 To 50, Add	1,271.29	
		For >50 To 100, Add	635.64	
		For >500 To 1,000, Deduct	-248.31	
		For >1,000 To 2,000, Deduct	-375.37	
		For >2,000 To 5,000, Deduct	-612.17	
		For >5,000, Deduct	-1,016.43	
33 01 30 72-0303	LF	39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,179.41	
		For Vinylester Resin, Add	3,452.41	
		For Epoxy Resin, Add	406.89	
		For Up To >10, Add	3,208.18	
		For >10 To 25, Add	1,851.48	
		For >25 To 50, Add	1,357.49	
		For >50 To 100, Add	678.74	
		For >500 To 1,000, Deduct	-265.16	
		For >1,000 To 2,000, Deduct	-400.83	
		For >2,000 To 5,000, Deduct	-653.69	
		For >5,000, Deduct	-1,085.36	
33 01 30 72-0304	LF	39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,508.38	
		For Vinylester Resin, Add	3,671.70	
		For Epoxy Resin, Add	432.74	
		For Up To >10, Add	3,411.94	
		For >10 To 25, Add	1,969.07	
		For >25 To 50, Add	1,443.71	
		For >50 To 100, Add	721.85	
		For >500 To 1,000, Deduct	-282.00	
		For >1,000 To 2,000, Deduct	-426.28	
		For >2,000 To 5,000, Deduct	-695.21	
		For >5,000, Deduct	-1,154.30	
33 01 30 72-0305	LF	39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,837.34	
		For Vinylester Resin, Add	3,890.98	
		For Epoxy Resin, Add	458.58	
		For Up To >10, Add	3,615.67	
		For >10 To 25, Add	2,086.64	
		For >25 To 50, Add	1,529.91	
		For >50 To 100, Add	764.95	
		For >500 To 1,000, Deduct	-298.84	
		For >1,000 To 2,000, Deduct	-451.74	
		For >2,000 To 5,000, Deduct	-736.72	
		For >5,000, Deduct	-1,223.23	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0306 LF 39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,166.30	
For Vinylester Resin, Add	4,110.26	
For Epoxy Resin, Add	484.42	
For Up To >10, Add	3,819.40	
For >10 To 25, Add	2,204.20	
For >25 To 50, Add	1,616.11	
For >50 To 100, Add	808.06	
For >500 To 1,000, Deduct	-315.68	
For >1,000 To 2,000, Deduct	-477.20	
For >2,000 To 5,000, Deduct	-778.24	
For >5,000, Deduct	-1,292.16	
33 01 30 72-0307 LF 39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,495.26	
For Vinylester Resin, Add	4,329.54	
For Epoxy Resin, Add	510.27	
For Up To >10, Add	4,023.13	
For >10 To 25, Add	2,321.77	
For >25 To 50, Add	1,702.31	
For >50 To 100, Add	851.16	
For >500 To 1,000, Deduct	-332.52	
For >1,000 To 2,000, Deduct	-502.65	
For >2,000 To 5,000, Deduct	-819.76	
For >5,000, Deduct	-1,361.09	
33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0309 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,293.46	
For Vinylester Resin, Add	1,533.50	
For Epoxy Resin, Add	180.73	
For Up To >10, Add	1,403.58	
For >10 To 25, Add	804.53	
For >25 To 50, Add	592.25	
For >50 To 100, Add	296.13	
For >500 To 1,000, Deduct	-117.24	
For >1,000 To 2,000, Deduct	-177.15	
For >2,000 To 5,000, Deduct	-288.57	
For >5,000, Deduct	-479.24	
33 01 30 72-0310 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,634.01	
For Vinylester Resin, Add	1,761.22	
For Epoxy Resin, Add	207.57	
For Up To >10, Add	1,611.96	
For >10 To 25, Add	923.96	
For >25 To 50, Add	680.18	
For >50 To 100, Add	340.09	
For >500 To 1,000, Deduct	-134.65	
For >1,000 To 2,000, Deduct	-203.45	
For >2,000 To 5,000, Deduct	-331.42	
For >5,000, Deduct	-550.40	
33 01 30 72-0311 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,974.57	
For Vinylester Resin, Add	1,988.94	
For Epoxy Resin, Add	234.41	
For Up To >10, Add	1,820.36	
For >10 To 25, Add	1,043.41	
For >25 To 50, Add	768.11	
For >50 To 100, Add	384.06	
For >500 To 1,000, Deduct	-152.06	
For >1,000 To 2,000, Deduct	-229.75	
For >2,000 To 5,000, Deduct	-374.27	
For >5,000, Deduct	-621.56	
33 01 30 72-0312 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,315.12	
For Vinylester Resin, Add	2,216.66	
For Epoxy Resin, Add	261.25	
For Up To >10, Add	2,028.74	
For >10 To 25, Add	1,162.84	
For >25 To 50, Add	856.04	
For >50 To 100, Add	428.02	
For >500 To 1,000, Deduct	-169.47	
For >1,000 To 2,000, Deduct	-256.06	
For >2,000 To 5,000, Deduct	-417.12	
For >5,000, Deduct	-692.72	
33 01 30 72-0313 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,663.91	
For Vinylester Resin, Add	2,444.37	
For Epoxy Resin, Add	288.09	
For Up To >10, Add	2,261.83	
For >10 To 25, Add	1,302.87	
For >25 To 50, Add	956.32	
For >50 To 100, Add	478.16	
For >500 To 1,000, Deduct	-187.49	
For >1,000 To 2,000, Deduct	-283.39	
For >2,000 To 5,000, Deduct	-462.02	
For >5,000, Deduct	-767.17	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0314	LF		40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,005.22	
			For Vinylester Resin, Add	2,672.09	
			For Epoxy Resin, Add	314.92	
			For Up To >10, Add	2,472.49	
			For >10 To 25, Add	1,424.19	
			For >25 To 50, Add	1,045.38	
			For >50 To 100, Add	522.69	
			For >500 To 1,000, Deduct	-204.96	
			For >1,000 To 2,000, Deduct	-309.79	
			For >2,000 To 5,000, Deduct	-505.06	
			For >5,000, Deduct	-838.63	
33 01 30 72-0315	LF		40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,346.54	
			For Vinylester Resin, Add	2,899.81	
			For Epoxy Resin, Add	341.76	
			For Up To >10, Add	2,683.17	
			For >10 To 25, Add	1,545.55	
			For >25 To 50, Add	1,134.46	
			For >50 To 100, Add	567.23	
			For >500 To 1,000, Deduct	-222.43	
			For >1,000 To 2,000, Deduct	-336.19	
			For >2,000 To 5,000, Deduct	-548.10	
			For >5,000, Deduct	-910.10	
33 01 30 72-0316	LF		40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,687.85	
			For Vinylester Resin, Add	3,127.52	
			For Epoxy Resin, Add	368.60	
			For Up To >10, Add	2,893.83	
			For >10 To 25, Add	1,666.87	
			For >25 To 50, Add	1,223.52	
			For >50 To 100, Add	611.76	
			For >500 To 1,000, Deduct	-239.89	
			For >1,000 To 2,000, Deduct	-362.59	
			For >2,000 To 5,000, Deduct	-591.14	
			For >5,000, Deduct	-981.56	
33 01 30 72-0317	LF		40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,029.17	
			For Vinylester Resin, Add	3,355.24	
			For Epoxy Resin, Add	395.44	
			For Up To >10, Add	3,104.51	
			For >10 To 25, Add	1,788.23	
			For >25 To 50, Add	1,312.60	
			For >50 To 100, Add	656.30	
			For >500 To 1,000, Deduct	-257.36	
			For >1,000 To 2,000, Deduct	-388.99	
			For >2,000 To 5,000, Deduct	-634.18	
			For >5,000, Deduct	-1,053.03	
33 01 30 72-0318	LF		40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,370.48	
			For Vinylester Resin, Add	3,582.96	
			For Epoxy Resin, Add	422.28	
			For Up To >10, Add	3,315.17	
			For >10 To 25, Add	1,909.55	
			For >25 To 50, Add	1,401.66	
			For >50 To 100, Add	700.83	
			For >500 To 1,000, Deduct	-274.82	
			For >1,000 To 2,000, Deduct	-415.38	
			For >2,000 To 5,000, Deduct	-677.21	
			For >5,000, Deduct	-1,124.49	
33 01 30 72-0319	LF		40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,711.79	
			For Vinylester Resin, Add	3,810.67	
			For Epoxy Resin, Add	449.12	
			For Up To >10, Add	3,525.82	
			For >10 To 25, Add	2,030.88	
			For >25 To 50, Add	1,490.72	
			For >50 To 100, Add	745.36	
			For >500 To 1,000, Deduct	-292.29	
			For >1,000 To 2,000, Deduct	-441.78	
			For >2,000 To 5,000, Deduct	-720.25	
			For >5,000, Deduct	-1,195.95	
33 01 30 72-0320	LF		40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,053.11	
			For Vinylester Resin, Add	4,038.39	
			For Epoxy Resin, Add	475.95	
			For Up To >10, Add	3,736.51	
			For >10 To 25, Add	2,152.23	
			For >25 To 50, Add	1,579.80	
			For >50 To 100, Add	789.90	
			For >500 To 1,000, Deduct	-309.76	
			For >1,000 To 2,000, Deduct	-468.18	
			For >2,000 To 5,000, Deduct	-763.29	
			For >5,000, Deduct	-1,267.42	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0321 LF 40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,394.42	
For Vinylester Resin, Add	4,266.11	
For Epoxy Resin, Add	502.79	
For Up To >10, Add	3,947.16	
For >10 To 25, Add	2,273.56	
For >25 To 50, Add	1,668.86	
For >50 To 100, Add	834.43	
For >500 To 1,000, Deduct	-327.22	
For >1,000 To 2,000, Deduct	-494.58	
For >2,000 To 5,000, Deduct	-806.33	
For >5,000, Deduct	-1,338.88	
33 01 30 72-0322 LF 40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,735.74	
For Vinylester Resin, Add	4,493.83	
For Epoxy Resin, Add	529.63	
For Up To >10, Add	4,157.85	
For >10 To 25, Add	2,394.91	
For >25 To 50, Add	1,757.94	
For >50 To 100, Add	878.97	
For >500 To 1,000, Deduct	-344.69	
For >1,000 To 2,000, Deduct	-520.98	
For >2,000 To 5,000, Deduct	-849.37	
For >5,000, Deduct	-1,410.35	
33 01 30 72-0323 42mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0324 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	2,725.86	
For Vinylester Resin, Add	1,824.12	
For Epoxy Resin, Add	214.99	
For Up To >10, Add	1,662.86	
For >10 To 25, Add	951.40	
For >25 To 50, Add	701.13	
For >50 To 100, Add	350.57	
For >500 To 1,000, Deduct	-139.29	
For >1,000 To 2,000, Deduct	-210.44	
For >2,000 To 5,000, Deduct	-342.70	
For >5,000, Deduct	-569.17	
33 01 30 72-0325 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,078.77	
For Vinylester Resin, Add	2,060.28	
For Epoxy Resin, Add	242.82	
For Up To >10, Add	1,878.16	
For >10 To 25, Add	1,074.59	
For >25 To 50, Add	791.92	
For >50 To 100, Add	395.96	
For >500 To 1,000, Deduct	-157.33	
For >1,000 To 2,000, Deduct	-237.68	
For >2,000 To 5,000, Deduct	-387.07	
For >5,000, Deduct	-642.86	
33 01 30 72-0326 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,431.67	
For Vinylester Resin, Add	2,296.43	
For Epoxy Resin, Add	270.65	
For Up To >10, Add	2,093.49	
For >10 To 25, Add	1,197.80	
For >25 To 50, Add	882.71	
For >50 To 100, Add	441.36	
For >500 To 1,000, Deduct	-175.36	
For >1,000 To 2,000, Deduct	-264.93	
For >2,000 To 5,000, Deduct	-431.44	
For >5,000, Deduct	-716.55	
33 01 30 72-0327 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	3,792.97	
For Vinylester Resin, Add	2,532.58	
For Epoxy Resin, Add	298.48	
For Up To >10, Add	2,333.99	
For >10 To 25, Add	1,341.99	
For >25 To 50, Add	986.09	
For >50 To 100, Add	493.05	
For >500 To 1,000, Deduct	-194.02	
For >1,000 To 2,000, Deduct	-293.22	
For >2,000 To 5,000, Deduct	-477.91	
For >5,000, Deduct	-793.59	
33 01 30 72-0328 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,146.64	
For Vinylester Resin, Add	2,768.73	
For Epoxy Resin, Add	326.31	
For Up To >10, Add	2,551.60	
For >10 To 25, Add	1,467.11	
For >25 To 50, Add	1,078.03	
For >50 To 100, Add	539.02	
For >500 To 1,000, Deduct	-212.11	
For >1,000 To 2,000, Deduct	-320.56	
For >2,000 To 5,000, Deduct	-522.47	
For >5,000, Deduct	-867.59	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0329	LF		42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,500.31	
			For Vinylester Resin, Add	3,004.88	
			For Epoxy Resin, Add	354.15	
			For Up To >10, Add	2,769.21	
			For >10 To 25, Add	1,592.22	
			For >25 To 50, Add	1,169.97	
			For >50 To 100, Add	584.98	
			For >500 To 1,000, Deduct	-230.21	
			For >1,000 To 2,000, Deduct	-347.90	
			For >2,000 To 5,000, Deduct	-567.03	
			For >5,000, Deduct	-941.59	
33 01 30 72-0330	LF		42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	4,853.98	
			For Vinylester Resin, Add	3,241.04	
			For Epoxy Resin, Add	381.98	
			For Up To >10, Add	2,986.82	
			For >10 To 25, Add	1,717.34	
			For >25 To 50, Add	1,261.91	
			For >50 To 100, Add	630.95	
			For >500 To 1,000, Deduct	-248.30	
			For >1,000 To 2,000, Deduct	-375.25	
			For >2,000 To 5,000, Deduct	-611.59	
			For >5,000, Deduct	-1,015.58	
33 01 30 72-0331	LF		42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,207.64	
			For Vinylester Resin, Add	3,477.18	
			For Epoxy Resin, Add	409.81	
			For Up To >10, Add	3,204.42	
			For >10 To 25, Add	1,842.45	
			For >25 To 50, Add	1,353.84	
			For >50 To 100, Add	676.92	
			For >500 To 1,000, Deduct	-266.39	
			For >1,000 To 2,000, Deduct	-402.59	
			For >2,000 To 5,000, Deduct	-656.15	
			For >5,000, Deduct	-1,089.58	
33 01 30 72-0332	LF		42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,561.31	
			For Vinylester Resin, Add	3,713.33	
			For Epoxy Resin, Add	437.64	
			For Up To >10, Add	3,422.03	
			For >10 To 25, Add	1,967.57	
			For >25 To 50, Add	1,445.78	
			For >50 To 100, Add	722.89	
			For >500 To 1,000, Deduct	-284.48	
			For >1,000 To 2,000, Deduct	-429.93	
			For >2,000 To 5,000, Deduct	-700.71	
			For >5,000, Deduct	-1,163.57	
33 01 30 72-0333	LF		42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	5,914.98	
			For Vinylester Resin, Add	3,949.48	
			For Epoxy Resin, Add	465.47	
			For Up To >10, Add	3,639.64	
			For >10 To 25, Add	2,092.68	
			For >25 To 50, Add	1,537.71	
			For >50 To 100, Add	768.86	
			For >500 To 1,000, Deduct	-302.57	
			For >1,000 To 2,000, Deduct	-457.27	
			For >2,000 To 5,000, Deduct	-745.27	
			For >5,000, Deduct	-1,237.57	
33 01 30 72-0334	LF		42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,268.65	
			For Vinylester Resin, Add	4,185.64	
			For Epoxy Resin, Add	493.31	
			For Up To >10, Add	3,857.25	
			For >10 To 25, Add	2,217.80	
			For >25 To 50, Add	1,629.65	
			For >50 To 100, Add	814.83	
			For >500 To 1,000, Deduct	-320.66	
			For >1,000 To 2,000, Deduct	-484.61	
			For >2,000 To 5,000, Deduct	-789.83	
			For >5,000, Deduct	-1,311.56	
33 01 30 72-0335	LF		42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,622.31	
			For Vinylester Resin, Add	4,421.79	
			For Epoxy Resin, Add	521.14	
			For Up To >10, Add	4,074.83	
			For >10 To 25, Add	2,342.89	
			For >25 To 50, Add	1,721.57	
			For >50 To 100, Add	860.79	
			For >500 To 1,000, Deduct	-338.75	
			For >1,000 To 2,000, Deduct	-511.95	
			For >2,000 To 5,000, Deduct	-834.39	
			For >5,000, Deduct	-1,385.56	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0336 LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	6,975.98	
For Vinylster Resin, Add	4,657.94	
For Epoxy Resin, Add	548.97	
For Up To >10, Add	4,292.44	
For >10 To 25, Add	2,468.00	
For >25 To 50, Add	1,813.51	
For >50 To 100, Add	906.76	
For >500 To 1,000, Deduct	-356.84	
For >1,000 To 2,000, Deduct	-539.29	
For >2,000 To 5,000, Deduct	-878.95	
For >5,000, Deduct	-1,459.55	
33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)		
33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....	627.77	
33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic).....	678.67	
33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic).....	721.08	
33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic).....	763.50	
33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic).....	805.92	
33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)		
33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder.....	668.06	
33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder.....	765.89	
33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder.....	863.69	
33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)		
33 01 30 74-0014 EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	726.51	
33 01 30 74-0015 EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....	784.95	
33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)		
Note: As manufactured by LMK.		
33 01 30 74-0017 EA Up To 4" Lateral T-Liner.....	879.56	
33 01 30 74-0018 EA 6" Lateral T-Liner.....	984.22	
33 01 30 74-0019 EA 8" Lateral T-Liner.....	1,142.61	
33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)		
33 01 30 74-0021 Lining Lateral Pipe (33 01 30 74-0020)		
33 01 30 74-0022 LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	46.21	
For 7.5mm, Add	5.27	
For 9 mm, Add	10.42	
33 01 30 74-0023 LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	55.38	
For 7.5mm, Add	7.17	
For 9 mm, Add	14.18	
33 01 30 74-0024 LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP) Trenchless Rehabilitation.....	72.59	
For 7.5mm, Add	10.98	
For 9 mm, Add	21.72	
33 01 30 74-0025 Lining Manhole Drop (33 01 30 74-0020)		
33 01 30 74-0026 EA Manhole Drop Section Lining.....	948.25	
33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)		
33 01 30 79-0001 Form and Fold Relining Underground Pipelines (33 01 30 79)		
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002 Set-Up And Reinsertion For Fold-And-Form Relining Underground Pipelines (33 01 30 79-0001)		
33 01 30 79-0003 EA Initial Set-up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	6,097.28	
33 01 30 79-0004 EA Move And Set-up At Different Access/Location For Fold-And-Form Relining Underground Pipelines.....	2,438.91	
33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0006 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	40.51	
For DR 26 Pipe Liner, Add	6.86	
For Up To 75, Add	25.08	
For >75 To 150, Add	12.54	
For >500 To 1,000, Deduct	-0.98	
For >1,000 To 2,000, Deduct	-1.96	
For >2,000, Deduct	-3.92	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0007	LF	6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	51.36	
		For DR 26 Pipe Liner, Add	9.32	
		For DR 35 Pipe Liner, Deduct	-4.66	
		For Up To 75, Add	28.56	
		For >75 To 150, Add	14.28	
		For >500 To 1,000, Deduct	-1.06	
		For >1,000 To 2,000, Deduct	-2.11	
		For >2,000, Deduct	-4.22	
33 01 30 79-0008	LF	8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	53.22	
		For DR 26 Pipe Liner, Add	9.50	
		For DR 35 Pipe Liner, Deduct	-4.75	
		For Up To 75, Add	30.46	
		For >75 To 150, Add	15.23	
		For >500 To 1,000, Deduct	-1.14	
		For >1,000 To 2,000, Deduct	-2.29	
		For >2,000, Deduct	-4.57	
33 01 30 79-0009	LF	10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	73.61	
		For DR 26 Pipe Liner, Add	14.25	
		For DR 35 Pipe Liner, Deduct	-7.12	
		For DR 41 Pipe Liner, Deduct	-14.25	
		For Up To 75, Add	36.34	
		For >75 To 150, Add	18.17	
		For >500 To 1,000, Deduct	-1.25	
		For >1,000 To 2,000, Deduct	-2.49	
		For >2,000, Deduct	-4.99	
33 01 30 79-0010	LF	12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	101.68	
		For DR 26 Pipe Liner, Add	20.85	
		For DR 35 Pipe Liner, Deduct	-10.42	
		For DR 41 Pipe Liner, Deduct	-20.85	
		For Up To 75, Add	44.11	
		For >75 To 150, Add	22.06	
		For >500 To 1,000, Deduct	-1.37	
		For >1,000 To 2,000, Deduct	-2.74	
		For >2,000, Deduct	-5.49	
33 01 30 79-0011	LF	15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	138.20	
		For DR 35 Pipe Liner, Deduct	-14.68	
		For DR 41 Pipe Liner, Deduct	-29.35	
		For Up To 75, Add	54.67	
		For >75 To 150, Add	27.33	
		For >500 To 1,000, Deduct	-1.56	
		For >1,000 To 2,000, Deduct	-3.12	
		For >2,000, Deduct	-6.24	
33 01 30 79-0012	LF	18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	193.69	
		For DR 41 Pipe Liner, Deduct	-17.02	
		For DR 50 Pipe Liner, Deduct	-34.05	
		For Up To 75, Add	69.22	
		For >75 To 150, Add	34.61	
		For >500 To 1,000, Deduct	-1.76	
		For >1,000 To 2,000, Deduct	-3.52	
		For >2,000, Deduct	-7.04	
33 01 30 79-0013	LF	21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	218.78	
		For DR 50 Pipe Liner, Deduct	-29.01	
		For DR 55 Pipe Liner, Deduct	-48.34	
		For Up To 75, Add	76.79	
		For >75 To 150, Add	38.39	
		For >500 To 1,000, Deduct	-1.91	
		For >1,000 To 2,000, Deduct	-3.81	
		For >2,000, Deduct	-7.62	
33 01 30 79-0014	LF	24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	265.99	
		For DR 60 Pipe Liner, Deduct	-35.74	
		For Up To 75, Add	89.23	
		For >75 To 150, Add	44.62	
		For >500 To 1,000, Deduct	-2.08	
		For >1,000 To 2,000, Deduct	-4.16	
		For >2,000, Deduct	-8.32	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)				
33 01 30 79-0016	LF	4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	43.10	
		For DR 26 Pipe Liner, Add	7.51	
		For Up To 75, Add	25.60	
		For >75 To 150, Add	12.80	
		For >500 To 1,000, Deduct	-0.98	
		For >1,000 To 2,000, Deduct	-1.96	
		For >2,000, Deduct	-3.92	
33 01 30 79-0017	LF	6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	51.36	
		For DR 26 Pipe Liner, Add	9.32	
		For DR 35 Pipe Liner, Deduct	-4.66	
		For Up To 75, Add	28.56	
		For >75 To 150, Add	14.28	
		For >500 To 1,000, Deduct	-1.06	
		For >1,000 To 2,000, Deduct	-2.11	
		For >2,000, Deduct	-4.22	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	56.68	
For DR 26 Pipe Liner, Add	10.36	
For DR 35 Pipe Liner, Deduct	-5.18	
For Up To 75, Add	31.15	
For >75 To 150, Add	15.57	
For >500 To 1,000, Deduct	-1.14	
For >1,000 To 2,000, Deduct	-2.29	
For >2,000, Deduct	-4.57	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	78.79	
For DR 26 Pipe Liner, Add	15.54	
For DR 35 Pipe Liner, Deduct	-7.77	
For DR 41 Pipe Liner, Deduct	-15.54	
For Up To 75, Add	37.38	
For >75 To 150, Add	18.69	
For >500 To 1,000, Deduct	-1.25	
For >1,000 To 2,000, Deduct	-2.49	
For >2,000, Deduct	-4.99	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	109.45	
For DR 26 Pipe Liner, Add	22.79	
For DR 35 Pipe Liner, Deduct	-11.40	
For DR 41 Pipe Liner, Deduct	-22.79	
For Up To 75, Add	45.67	
For >75 To 150, Add	22.83	
For >500 To 1,000, Deduct	-1.37	
For >1,000 To 2,000, Deduct	-2.74	
For >2,000, Deduct	-5.49	
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	149.25	
For DR 35 Pipe Liner, Deduct	-16.06	
For DR 41 Pipe Liner, Deduct	-32.12	
For Up To 75, Add	56.88	
For >75 To 150, Add	28.44	
For >500 To 1,000, Deduct	-1.56	
For >1,000 To 2,000, Deduct	-3.12	
For >2,000, Deduct	-6.24	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	209.92	
For DR 41 Pipe Liner, Deduct	-18.65	
For DR 50 Pipe Liner, Deduct	-37.29	
For Up To 75, Add	72.47	
For >75 To 150, Add	36.23	
For >500 To 1,000, Deduct	-1.76	
For >1,000 To 2,000, Deduct	-3.52	
For >2,000, Deduct	-7.04	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	236.74	
For DR 50 Pipe Liner, Deduct	-31.70	
For DR 55 Pipe Liner, Deduct	-52.83	
For Up To 75, Add	80.38	
For >75 To 150, Add	40.19	
For >500 To 1,000, Deduct	-1.91	
For >1,000 To 2,000, Deduct	-3.81	
For >2,000, Deduct	-7.62	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	288.78	
For DR 60 Pipe Liner, Deduct	-39.16	
For Up To 75, Add	93.79	
For >75 To 150, Add	46.90	
For >500 To 1,000, Deduct	-2.08	
For >1,000 To 2,000, Deduct	-4.16	
For >2,000, Deduct	-8.32	

33 01 30 81 Manhole Rehabilitation (33 01 30)**33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)**

Note: Work is in confined spaces.

33 01 30 81-0002 Set-up For Inspection And Ventilation System (33 01 30 81-0001)

33 01 30 81-0003 EA Inspect Manhole	212.17
33 01 30 81-0004 EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	15,838.34
Note: For internal inspection and repair of water mains.	
33 01 30 81-0005 EA Installation And Maintenance Of Ventilation System, 60" to 108" diameter to 2,600'	22,438.41
Note: For internal inspection and repair of water mains	

33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)**33 01 30 81-0007 Internal Manhole Chimney Seals (33 01 30 81-0006)**

Note: Cretex.

33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal.....	628.76
33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal.....	662.76
33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal.....	679.75
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	781.72
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	883.66
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	985.63
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	1,189.56



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006)				
Note: Wrapidseal.				
33 01 30 81-0016	EA	24" External Manhole Encapsulation	917.66	
33 01 30 81-0017	EA	30" External Manhole Encapsulation	968.63	
33 01 30 81-0018	EA	36" External Manhole Encapsulation	1,036.62	
33 01 30 81-0019	EA	42" External Manhole Encapsulation	1,121.58	
33 01 30 81-0020	EA	48" External Manhole Encapsulation	1,240.53	
33 01 30 81-0021	EA	54" External Manhole Encapsulation	1,376.48	
33 01 30 81-0022	EA	60" External Manhole Encapsulation	1,546.42	
33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001)				
Note: Includes removing loose materials and cleaning.				
33 01 30 81-0024	LF	Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	62.13	
33 01 30 81-0025	LF	>1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	83.67	
33 01 30 81-0026	LF	Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	58.54	
33 01 30 81-0027	LF	>1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair	79.39	
33 01 30 81-0028 Manhole Patching (33 01 30 81-0001)				
Note: Includes removing loose materials and cleaning.				
33 01 30 81-0029	SF	Up To 1/4" Thick, Cementitious Grout, Manhole Patching	19.96	
33 01 30 81-0030	SF	Up To 1/4" Thick, Epoxy Grout, Manhole Patching	44.54	
33 01 30 81-0031 Manhole Joint Restoration (33 01 30 81-0001)				
Note: Includes drilling holes at joints, fill joints with grout.				
33 01 30 81-0032	EA	3' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,592.96	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			253.41	
33 01 30 81-0033	EA	3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,026.94	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			283.15	
33 01 30 81-0034	EA	4' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,457.29	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			312.89	
33 01 30 81-0035	EA	5' Diameter Joint Restoration, Grout Fill Per Each Manhole	4,100.40	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			327.75	
33 01 30 81-0036	EA	6' Diameter Joint Restoration, Grout Fill Per Each Manhole	4,741.70	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			342.62	
33 01 30 81-0037 Step Installation In Existing Manholes (33 01 30 81-0001)				
Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.				
33 01 30 81-0038	EA	Drill And Grout 7" x 9" Cast Iron Manhole Steps	138.44	24.53
33 01 30 81-0039	EA	Drill And Grout 8" x 9" Cast Iron Manhole Steps	149.44	24.53
33 01 30 81-0040	EA	Drill And Grout Galvanized Steel Manhole Step	126.15	24.53
33 01 30 81-0041	EA	Bolt On Galvanized Steel Manhole Step	146.26	24.53
33 01 30 81-0042	EA	Drill And Grout Aluminum Manhole Step	176.83	24.53
33 01 30 81-0043	EA	Drill And Insert Polypropylene Manhole Step	75.71	19.62
33 01 30 81-0044 Invert Restoration (33 01 30 81-0001)				
Note: Includes removal of existing defective material and installation of new material.				
33 01 30 81-0045 Concrete Invert Restoration (33 01 30 81-0044)				
33 01 30 81-0046	EA	2' Diameter, Concrete Invert Restoration	409.14	
33 01 30 81-0047	EA	3' Diameter, Concrete Invert Restoration	462.18	
33 01 30 81-0048	EA	4' Diameter, Concrete Invert Restoration	515.23	
33 01 30 81-0049	EA	5' Diameter, Concrete Invert Restoration	568.27	
33 01 30 81-0050	EA	6' Diameter, Concrete Invert Restoration	727.40	
33 01 30 81-0051	SF	Square Or Rectangular, Concrete Invert Restoration	40.97	
33 01 30 81-0052 Brick Invert Restoration (33 01 30 81-0044)				
33 01 30 81-0053	EA	2' Diameter, Brick Invert Restoration	680.84	
33 01 30 81-0054	EA	3' Diameter, Brick Invert Restoration	733.88	
33 01 30 81-0055	EA	4' Diameter, Brick Invert Restoration	786.92	
33 01 30 81-0056	EA	5' Diameter, Brick Invert Restoration	839.97	
33 01 30 81-0057	EA	6' Diameter, Brick Invert Restoration	893.01	
33 01 30 81-0058	SF	Square Or Rectangular, Brick Invert Restoration	57.87	
33 01 30 81-0059 Repair In-Kind Of Drainage Structures (33 01 30 81)				
Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.				
33 01 30 81-0060	VLF	2' Diameter, Repair In-Kind Drainage Structure	875.25	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0061 VLF 3' Diameter, Repair In-Kind Drainage Structure.....	1,312.89	
33 01 30 81-0062 VLF 4' Diameter, Repair In-Kind Drainage Structure.....	1,750.64	
33 01 30 81-0063 VLF 5' Diameter, Repair In-Kind Drainage Structure.....	2,188.15	
33 01 30 81-0064 VLF 6' Diameter, Repair In-Kind Drainage Structure.....	2,625.78	
33 01 30 81-0065 VLF 2' x 2', Repair In-Kind Drainage Structure.....	1,114.98	
33 01 30 81-0066 VLF 2' x 3', Repair In-Kind Drainage Structure.....	1,393.73	
33 01 30 81-0067 VLF 2' x 4', Repair In-Kind Drainage Structure.....	1,672.47	
33 01 30 81-0068 VLF 3' x 4', Repair In-Kind Drainage Structure.....	1,951.22	
33 01 30 81-0069 VLF 4' x 4', Repair In-Kind Drainage Structure.....	2,229.97	
33 01 30 81-0070 VLF 4' x 5', Repair In-Kind Drainage Structure.....	2,508.71	
33 01 30 81-0071 VLF 4' x 6', Repair In-Kind Drainage Structure.....	2,787.46	
33 01 30 81-0072 VLF 4' x 8', Repair In-Kind Drainage Structure.....	3,344.95	
33 01 30 81-0073 VLF >32 GSF, Repair In-Kind Drainage Structure.....	3,902.44	

33 01 30 82 Epoxy Lining for Concrete Manholes (33 01 30)**33 01 30 82-0001 Epoxy Manhole Restoration, Interior (33 01 30 82)**

33 01 30 82-0002 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	399.39	
For 80 Mil Material, Add	46.71	
For 100 Mil Material, Add	93.42	
For 125 Mil Material, Add	145.54	
For 150 Mil Material, Add	197.66	
For 200 Mil Material, Add	285.17	
For 2 To 5 Manholes, Deduct	-28.33	
For 6 To 10 Manholes, Deduct	-46.68	
For >10 Manholes, Deduct	-93.36	
33 01 30 82-0003 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	484.61	
For 80 Mil Material, Add	55.91	
For 100 Mil Material, Add	111.83	
For 125 Mil Material, Add	174.06	
For 150 Mil Material, Add	236.28	
For 200 Mil Material, Add	340.29	
For 2 To 5 Manholes, Deduct	-34.45	
For 6 To 10 Manholes, Deduct	-56.79	
For >10 Manholes, Deduct	-113.58	
33 01 30 82-0004 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	532.52	
For 80 Mil Material, Add	62.28	
For 100 Mil Material, Add	124.56	
For 125 Mil Material, Add	194.05	
For 150 Mil Material, Add	263.54	
For 200 Mil Material, Add	380.22	
For 2 To 5 Manholes, Deduct	-37.78	
For 6 To 10 Manholes, Deduct	-62.24	
For >10 Manholes, Deduct	-124.48	
33 01 30 82-0005 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	665.73	
For 80 Mil Material, Add	77.88	
For 100 Mil Material, Add	155.76	
For 125 Mil Material, Add	242.65	
For 150 Mil Material, Add	329.55	
For 200 Mil Material, Add	475.46	
For 2 To 5 Manholes, Deduct	-47.23	
For 6 To 10 Manholes, Deduct	-77.81	
For >10 Manholes, Deduct	-155.61	
33 01 30 82-0006 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	798.86	
For 80 Mil Material, Add	93.45	
For 100 Mil Material, Add	186.90	
For 125 Mil Material, Add	291.16	
For 150 Mil Material, Add	395.43	
For 200 Mil Material, Add	570.51	
For 2 To 5 Manholes, Deduct	-56.67	
For 6 To 10 Manholes, Deduct	-93.37	
For >10 Manholes, Deduct	-186.73	

33 01 30 83 Lining for Concrete Manholes (33 01 30)**33 01 30 83-0001 Manhole Lining (33 01 30 83)**

Note: Includes power washing and cleaning of manhole interiors.

33 01 30 83-0002 Cementitious Manhole Restoration, Interior (33 01 30 83-0001)

33 01 30 83-0003 VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior	168.89	
For Each Additional 1/2" Thick Material, Add	39.01	
For 2 To 5 Manholes, Deduct	-11.98	
For 6 To 10 Manholes, Deduct	-19.73	
For >10 Manholes, Deduct	-39.46	
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	195.80	
For Each Additional 1/2" Thick Material, Add	45.39	
For 2 To 5 Manholes, Deduct	-13.88	
For 6 To 10 Manholes, Deduct	-22.86	
For >10 Manholes, Deduct	-45.72	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior	222.70	
For Each Additional 1/2" Thick Material, Add	51.76	
For 2 To 5 Manholes, Deduct	-15.78	
For 6 To 10 Manholes, Deduct	-25.99	
For >10 Manholes, Deduct	-51.99	



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		Operation and Maintenance of Utilities	33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0006	VLF	1/2" Cementitious Restoration On 5' Diameter Manhole Interior..... <i>For Each Additional 1/2" Thick Material, Add</i> <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	261.88 63.23 -18.48 -30.42 -60.84	
33 01 30 83-0007	VLF	1/2" Cementitious Restoration On 6' Diameter Manhole Interior..... <i>For Each Additional 1/2" Thick Material, Add</i> <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	285.75 72.82 -20.05 -32.95 -65.91	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)				
33 01 30 83-0009	VLF	60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior <i>For 80 Mil Material, Add</i> <i>For 100 Mil Material, Add</i> <i>For 125 Mil Material, Add</i> <i>For 150 Mil Material, Add</i> <i>For 200 Mil Material, Add</i> <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	357.17 32.64 65.28 99.80 134.33 186.66 -26.22 -43.51 -87.03	
33 01 30 83-0010	VLF	60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior..... <i>For 80 Mil Material, Add</i> <i>For 100 Mil Material, Add</i> <i>For 125 Mil Material, Add</i> <i>For 150 Mil Material, Add</i> <i>For 200 Mil Material, Add</i> <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	435.28 39.47 78.94 120.62 162.29 225.19 -31.99 -53.09 -106.18	
33 01 30 83-0011	VLF	60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior <i>For 80 Mil Material, Add</i> <i>For 100 Mil Material, Add</i> <i>For 125 Mil Material, Add</i> <i>For 150 Mil Material, Add</i> <i>For 200 Mil Material, Add</i> <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	476.23 43.52 87.04 133.07 179.11 248.88 -34.96 -58.02 -116.04	
33 01 30 83-0012	VLF	60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior <i>For 80 Mil Material, Add</i> <i>For 100 Mil Material, Add</i> <i>For 125 Mil Material, Add</i> <i>For 150 Mil Material, Add</i> <i>For 200 Mil Material, Add</i> <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	595.29 54.40 108.80 166.34 223.89 311.10 -43.70 -72.52 -145.05	
33 01 30 83-0013	VLF	60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior <i>For 80 Mil Material, Add</i> <i>For 100 Mil Material, Add</i> <i>For 125 Mil Material, Add</i> <i>For 150 Mil Material, Add</i> <i>For 200 Mil Material, Add</i> <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	714.35 65.28 130.56 199.61 268.67 373.32 -52.44 -87.03 -174.06	
33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)				
33 01 30 83-0015	VLF	3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	612.45 -35.77 -56.22 -112.45	
33 01 30 83-0016	VLF	3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	750.01 -43.79 -68.83 -137.65	
33 01 30 83-0017	VLF	4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	882.72 -51.00 -79.92 -159.85	
33 01 30 83-0018	VLF	5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	1,106.93 -63.92 -100.17 -200.34	
33 01 30 83-0019	VLF	6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	1,331.15 -76.85 -120.41 -240.83	

33 01 30 86 Manhole Rim Adjustment (33 01 30)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 86-0001	Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)	
	Note: Excludes asphalt See CSI section 02 41 13 13-0036 for breakup and removal of pavement, 02 41 19 13-0057 for sawcutting pavement if required, 32 12 16 13-0022 for hand placed hot mix asphalt.	
33 01 30 86-0002	Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)	
33 01 30 86-0003	EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	596.87
	For Lowering Manhole Rim, Add	99.97
	Note: Includes digging under manhole rim	
33 01 30 86-0004	EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	666.12
	For Lowering Manhole Rim, Add	106.29
	Note: Includes digging under manhole rim	
33 01 30 86-0005	EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	729.90
	For Lowering Manhole Rim, Add	113.01
	Note: Includes digging under manhole rim	
33 01 30 86-0006	EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	801.55
	For Lowering Manhole Rim, Add	120.12
	Note: Includes digging under manhole rim	
33 01 30 86-0007	EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	862.24
	For Lowering Manhole Rim, Add	128.02
	Note: Includes digging under manhole rim	
33 01 30 86-0008	Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)	
33 01 30 86-0009	EA Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	702.61
	For Lowering Manhole Rim, Add	105.11
	Note: Includes digging under manhole rim	
33 01 30 86-0010	EA >2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	763.05
	For Lowering Manhole Rim, Add	111.82
	Note: Includes digging under manhole rim	
33 01 30 86-0011	EA >3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	838.04
	For Lowering Manhole Rim, Add	118.94
	Note: Includes digging under manhole rim	
33 01 30 86-0012	EA >4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	912.09
	For Lowering Manhole Rim, Add	126.84
	Note: Includes digging under manhole rim	
33 01 30 86-0013	EA >5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	982.81
	For Lowering Manhole Rim, Add	134.74
	Note: Includes digging under manhole rim	
33 01 30 86-0014	Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers (33 01 30 86-0001)	
33 01 30 86-0015	EA Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers	815.85
	For Lowering Manhole Rim, Add	130.79
	Note: Includes digging under manhole rim	
33 01 30 86-0016	EA >4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	861.23
	For Lowering Manhole Rim, Add	137.11
	Note: Includes digging under manhole rim	
33 01 30 86-0017	EA >5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	911.40
	For Lowering Manhole Rim, Add	145.02
	Note: Includes digging under manhole rim	
33 01 30 86-0018	>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)	
33 01 30 86-0019	EA >6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	986.59
33 01 30 86-0020	EA 7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,069.96
33 01 30 86-0021	EA 7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,154.54
33 01 30 86-0022	EA 8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,224.80
33 01 30 86-0023	EA 9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,327.53
33 01 30 86-0024	EA 10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	1,421.42
33 01 30 86-0025	EA 11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	1,515.58
33 01 30 86-0026	EA 12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	1,612.13
33 01 30 86-0027	>12" Rise, Solid Manhole Risers (33 01 30 86)	
33 01 30 86-0028	Precast Concrete Manhole Riser (33 01 30 86-0027)	
33 01 30 86-0029	VLF Up To 26" Diameter Precast Concrete Manhole Riser.....	116.83
33 01 30 86-0030	VLF >26" To 36" Diameter Precast Concrete Manhole Riser	139.85
33 01 30 86-0031	VLF >36" To 48" Diameter Precast Concrete Manhole Riser	205.90
33 01 30 86-0032	VLF >48" To 60" Diameter Precast Concrete Manhole Riser	420.69
33 01 30 86-0033	VLF >60" To 72" Diameter Precast Concrete Manhole Riser	616.11
33 01 30 89	By-Pass Piping and Pumping of Water and Sewer Utilities (33 01 30)	
33 01 30 89-0001	Set-Up For By-Pass Pumping Unit (33 01 30 89)	
	Note: Excludes pump and hose rental. See CSI section 01 22 23 00-1144 for pump rental, 01 22 23 00-1177 for suction hose, 01 22 23 00-1196 for discharge hose.	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0002	EA	Set-up For By-Pass Pumping Unit.....	2,226.04	
33 01 30 89-0003	EA	Move And Set-up At Different Access/Location For By-Pass Pumping Unit.....	1,113.02	
33 01 30 89-0004		By-Pass Pumping (33 01 30 89) Note: Excludes pump rental. See CSI section 01 22 23 00-1144 for pump rental.		
33 01 30 89-0005	DAY	Maintain And Operate By-Pass Pumping Unit.....	556.51	
33 01 30 89-0006	WK	Maintain And Operate By-Pass Pumping Unit.....	2,782.55	
33 01 30 89-0007	MO	Maintain And Operate By-Pass Pumping Unit.....	11,686.71	
33 01 30 89-0008		Temporary Bypass And Service Lines (33 01 30 89) Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009		Temporary Water Service Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connection to building water service, and chlorination prior to each use. Remove after use.		
33 01 30 89-0010	LF	1/2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	3.37	
33 01 30 89-0011	LF	3/4" Temporary Service Hose With Fittings..... Note: Includes removal after use.	4.27	
33 01 30 89-0012	LF	1" Temporary Service Hose With Fittings..... Note: Includes removal after use.	4.95	
33 01 30 89-0013	LF	1-1/2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	5.91	
33 01 30 89-0014	LF	2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	7.25	
33 01 30 89-0015	EA	Temporary Service Valve Assembly At Fire Hydrant..... Note: Includes removal after use.	374.10	
33 01 30 89-0016		Temporary Bypass Water Main Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections to mains and chlorination prior to each use. Remove after use.		
33 01 30 89-0017	LF	2" Temporary Bypass Water Main Pipe With Fittings..... Note: Includes removal after use.	7.72	
		For >500 To 1,000, Deduct	-0.52	
		For >1,000 To 5,000, Deduct	-1.04	
		For >5,000, Deduct	-1.73	
33 01 30 89-0018	LF	4" Temporary Bypass Water Main Pipe With Fittings..... Note: Includes removal after use.	12.44	
		For >500 To 1,000, Deduct	-0.67	
		For >1,000 To 5,000, Deduct	-1.34	
		For >5,000, Deduct	-2.23	
33 01 30 89-0019	LF	6" Temporary Bypass Water Main Pipe With Fittings..... Note: Includes removal after use.	17.68	
		For >500 To 1,000, Deduct	-0.78	
		For >1,000 To 5,000, Deduct	-1.56	
		For >5,000, Deduct	-2.60	
33 01 30 89-0020	LF	8" Temporary Bypass Water Main Pipe With Fittings..... Note: Includes removal after use.	22.33	
		For >500 To 1,000, Deduct	-0.94	
		For >1,000 To 5,000, Deduct	-1.87	
		For >5,000, Deduct	-3.12	
33 01 30 89-0021		Piping Protection For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0022	LF	Cold Mix For Temporary Pipe..... Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.	3.56	
33 01 30 89-0023		Drill Meter Cover For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0024	EA	Drill Meter Cover For Temporary Bypass Pipe.....	18.97	
33 01 30 89-0025		Temporary By-Pass Plug (33 01 30 89)		
33 01 30 89-0026	EA	8" To 16" Temporary By-Pass Plug.....	897.63	
33 01 30 89-0027	EA	12" To 24" Temporary By-Pass Plug.....	1,405.54	
33 01 30 89-0028	EA	15" To 30" Temporary By-Pass Plug.....	2,294.54	
33 01 30 89-0029	EA	20" To 40" Temporary By-Pass Plug.....	2,817.82	
33 01 30 89-0030	EA	24" To 28" Temporary By-Pass Plug.....	3,775.73	

33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)

33 01 34 13 Septic Tank Solids Removal (33 01 34)

33 01 34 13-0001 Pump Out Septic Tanks (33 01 34 13)

33 01 34 13-0002	GAL	Pump Out Septic Tank And Dispose	0.79	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 40 Operation and Maintenance of Stormwater Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 40 Operation and Maintenance of Stormwater Utilities (33 01)

33 01 40 00-0001	Solid Wall High-Density Polyethylene (HDPE) Culvert Slip-Lining System (33 01 40) Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0024 for culvert cleaning, 33 01 40 00-0046 for flowable fill grout.	
33 01 40 00-0002	LF 6.625" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	55.74 -9.97
33 01 40 00-0003	LF 8.625" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	85.44 -15.62
33 01 40 00-0004	LF 10.75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	77.82 -13.85
33 01 40 00-0005	LF 12.75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	104.02 -18.72
33 01 40 00-0006	LF 14" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	117.69 -20.97
33 01 40 00-0007	LF 16" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	144.31 -26.12
33 01 40 00-0008	LF 18" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	181.50 -32.87
33 01 40 00-0009	LF 20" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	224.64 -41.01
33 01 40 00-0010	LF 22" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	259.86 -47.57
33 01 40 00-0011	LF 24" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	298.36 -54.78
33 01 40 00-0012	LF 26" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	341.90 -63.00
33 01 40 00-0013	LF 28" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	387.04 -71.54
33 01 40 00-0014	LF 30" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	451.25 -83.89
33 01 40 00-0015	LF 32" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	518.76 -96.90
33 01 40 00-0016	LF 34" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	574.95 -107.65
33 01 40 00-0017	LF 36" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	631.13 -118.40
33 01 40 00-0018	LF 39.37" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	725.67 -136.82
33 01 40 00-0019	LF 42" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	820.21 -155.24
33 01 40 00-0020	LF 48" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,068.90 -204.48
33 01 40 00-0021	LF 54" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,314.34 -253.08
33 01 40 00-0022	LF 57" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,460.00 -281.72
33 01 40 00-0023	LF 60" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,604.26 -310.09
33 01 40 00-0024	LF 63" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,751.35 -339.02
33 01 40 00-0025	LF 66" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,970.65 -382.14
33 01 40 00-0026	LF 72" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,090.89 -405.21
33 01 40 00-0027	LF 78" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,220.49 -429.91
33 01 40 00-0028	LF 84" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,411.68 -467.17
33 01 40 00-0029	LF 90" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,464.35 -476.72
33 01 40 00-0030	LF 96" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	2,491.23 -480.88
33 01 40 00-0031	LF 16.5 x 23" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	301.00 -55.26
33 01 40 00-0032	LF 17" x 26" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	335.22 -61.19
33 01 40 00-0033	LF 18" x 29" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	370.38 -78.61
33 01 40 00-0034	LF 19" x 32" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	428.82 -86.33
33 01 40 00-0035	LF 21" x 33.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	470.71 -97.51
33 01 40 00-0036	LF 22.5 x 36" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	529.85 -109.37
33 01 40 00-0037	LF 26" x 37" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	592.39 -132.19
33 01 40 00-0038	LF 30" x 41" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	713.01 -132.19
33 01 40 00-0039	LF 31" x 46" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	804.46



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Stormwater Utilities		33 01 40	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 40 00-0040	LF	34" x 48.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	894.80	
		<i>For Profile Wall (Corrugated), Deduct</i>	-167.25	
33 01 40 00-0041	LF	39" x 55.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,120.84	
		<i>For Profile Wall (Corrugated), Deduct</i>	-211.80	
33 01 40 00-0042	LF	43" x 63" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,356.91	
		<i>For Profile Wall (Corrugated), Deduct</i>	-258.37	
33 01 40 00-0043	LF	48" x 75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,758.62	
		<i>For Profile Wall (Corrugated), Deduct</i>	-338.71	
33 01 40 00-0044	LF	52" x 72.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,768.39	
		<i>For Profile Wall (Corrugated), Deduct</i>	-338.71	
33 01 40 00-0045	LF	58" x 67.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,768.39	
		<i>For Profile Wall (Corrugated), Deduct</i>	-338.71	
33 01 40 00-0046		Pumped Grouting For Slip-Lining Systems (33 01 40) Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.		
33 01 40 00-0047	CY	Flowable Fill Grout, For Pipe Relines	649.28	

33 01 70 Operation and Maintenance of Electrical Utilities (33 01)

33 01 70 51 Electrical Utility Visual Inspection (33 01 70)

33 01 70 51-0001		Video Camera Inspection Of Gas Piping and Electrical Duct (33 01 70 51)		
33 01 70 51-0002		Set-up For Video Camera (33 01 70 51-0001)		
33 01 70 51-0003	EA	Up To 12" Diameter, Initial Set-up For Video Inspection, Gas Pipe Or Electrical Duct	317.73	
33 01 70 51-0004	EA	Initial Set-up And Final Equipment Removal For >12" To 48" Diameter, Video Inspection, Gas Pipe	357.44	
33 01 70 51-0005	EA	Move And Set-up For Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct	79.44	
33 01 70 51-0006	EA	Move And Set-up For >12" To 48" Diameter, Video Inspection, Gas Pipe	119.14	
33 01 70 51-0007		Video Camera Inspection Of Gas Pipe Or Electrical Duct (33 01 70 51-0001)		
33 01 70 51-0008	LF	Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct	1.22	
		<i>For >1,000 To 5,000, Deduct</i>	-0.06	
		<i>For >5,000, Deduct</i>	-0.12	
33 01 70 51-0009	LF	>12" To 48" Diameter, Video Inspection, Gas Pipe	1.89	
		<i>For >1,000 To 5,000, Deduct</i>	-0.09	
		<i>For >5,000, Deduct</i>	-0.19	

33 01 70 72 Cured-in-Place Conduit Lining (33 01 70)

33 01 70 72-0001		Lining Conduit With Cured In-Place (CIP) Liner (33 01 70 72) Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection and cleaning.		
33 01 70 72-0002		2mm Thick Cured In-Place Conduit Lining (33 01 70 72-0001)		
33 01 70 72-0003	LF	1-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	8.68	
		<i>For Up To >10, Add</i>	16.52	
		<i>For >10 To 25, Add</i>	13.13	
		<i>For >25 To 50, Add</i>	8.07	
		<i>For >50 To 100, Add</i>	4.03	
		<i>For >500 To 1,000, Deduct</i>	-0.56	
		<i>For >1,000 To 2,000, Deduct</i>	-0.89	
		<i>For >2,000 To 5,000, Deduct</i>	-1.67	
		<i>For >5,000, Deduct</i>	-2.71	
33 01 70 72-0004	LF	2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	10.63	
		<i>For Up To >10, Add</i>	19.04	
		<i>For >10 To 25, Add</i>	15.01	
		<i>For >25 To 50, Add</i>	9.26	
		<i>For >50 To 100, Add</i>	4.63	
		<i>For >500 To 1,000, Deduct</i>	-0.67	
		<i>For >1,000 To 2,000, Deduct</i>	-1.07	
		<i>For >2,000 To 5,000, Deduct</i>	-1.99	
		<i>For >5,000, Deduct</i>	-3.22	
33 01 70 72-0005	LF	2-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	13.34	
		<i>For Up To >10, Add</i>	23.82	
		<i>For >10 To 25, Add</i>	18.77	
		<i>For >25 To 50, Add</i>	11.59	
		<i>For >50 To 100, Add</i>	5.79	
		<i>For >500 To 1,000, Deduct</i>	-0.84	
		<i>For >1,000 To 2,000, Deduct</i>	-1.34	
		<i>For >2,000 To 5,000, Deduct</i>	-2.49	
		<i>For >5,000, Deduct</i>	-4.04	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 70 Operation and Maintenance of Electrical Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 72-0006 LF 3" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	15.74	
For Up To >10, Add	27.67	
For >10 To 25, Add	21.76	
For >25 To 50, Add	13.44	
For >50 To 100, Add	6.72	
For >500 To 1,000, Deduct	-0.99	
For >1,000 To 2,000, Deduct	-1.58	
For >2,000 To 5,000, Deduct	-2.92	
For >5,000, Deduct	-4.73	
33 01 70 72-0007 LF 3-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	17.69	
For Up To >10, Add	30.17	
For >10 To 25, Add	23.62	
For >25 To 50, Add	14.63	
For >50 To 100, Add	7.31	
For >500 To 1,000, Deduct	-1.10	
For >1,000 To 2,000, Deduct	-1.75	
For >2,000 To 5,000, Deduct	-3.23	
For >5,000, Deduct	-5.24	
33 01 70 72-0008 LF 4" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	19.95	
For Up To >10, Add	33.60	
For >10 To 25, Add	26.25	
For >25 To 50, Add	16.28	
For >50 To 100, Add	8.14	
For >500 To 1,000, Deduct	-1.23	
For >1,000 To 2,000, Deduct	-1.97	
For >2,000 To 5,000, Deduct	-3.62	
For >5,000, Deduct	-5.88	
33 01 70 72-0009 LF 5" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	23.55	
For Up To >10, Add	37.70	
For >10 To 25, Add	29.22	
For >25 To 50, Add	18.19	
For >50 To 100, Add	9.10	
For >500 To 1,000, Deduct	-1.44	
For >1,000 To 2,000, Deduct	-2.28	
For >2,000 To 5,000, Deduct	-4.17	
For >5,000, Deduct	-6.78	
33 01 70 72-0010 LF 6" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	27.13	
For Up To >10, Add	41.77	
For >10 To 25, Add	32.16	
For >25 To 50, Add	20.09	
For >50 To 100, Add	10.05	
For >500 To 1,000, Deduct	-1.64	
For >1,000 To 2,000, Deduct	-2.60	
For >2,000 To 5,000, Deduct	-4.72	
For >5,000, Deduct	-7.68	
33 01 70 72-0011 3mm Thick Cured In-Place Conduit Lining (33 01 70 72-0001)		
33 01 70 72-0012 LF 1-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	10.73	
For Up To >10, Add	18.32	
For >10 To 25, Add	14.34	
For >25 To 50, Add	8.88	
For >50 To 100, Add	4.44	
For >500 To 1,000, Deduct	-0.67	
For >1,000 To 2,000, Deduct	-1.06	
For >2,000 To 5,000, Deduct	-1.96	
For >5,000, Deduct	-3.18	
33 01 70 72-0013 LF 2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	13.96	
For Up To >10, Add	22.98	
For >10 To 25, Add	17.89	
For >25 To 50, Add	11.11	
For >50 To 100, Add	5.56	
For >500 To 1,000, Deduct	-0.86	
For >1,000 To 2,000, Deduct	-1.37	
For >2,000 To 5,000, Deduct	-2.51	
For >5,000, Deduct	-4.07	
33 01 70 72-0014 LF 2-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	17.19	
For Up To >10, Add	27.65	
For >10 To 25, Add	21.44	
For >25 To 50, Add	13.34	
For >50 To 100, Add	6.67	
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 2,000, Deduct	-1.67	
For >2,000 To 5,000, Deduct	-3.05	
For >5,000, Deduct	-4.96	
33 01 70 72-0015 LF 3" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	20.10	
For Up To >10, Add	31.38	
For >10 To 25, Add	24.22	
For >25 To 50, Add	15.11	
For >50 To 100, Add	7.55	
For >500 To 1,000, Deduct	-1.22	
For >1,000 To 2,000, Deduct	-1.93	
For >2,000 To 5,000, Deduct	-3.52	
For >5,000, Deduct	-5.73	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Electrical Utilities	33 01 70	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 72-0016 LF 3-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	22.88	
For Up To >10, Add	34.69	
For >10 To 25, Add	26.65	
For >25 To 50, Add	16.67	
For >50 To 100, Add	8.33	
For >500 To 1,000, Deduct	-1.38	
For >1,000 To 2,000, Deduct	-2.18	
For >2,000 To 5,000, Deduct	-3.95	
For >5,000, Deduct	-6.44	
33 01 70 72-0017 LF 4" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	25.80	
For Up To >10, Add	38.43	
For >10 To 25, Add	29.42	
For >25 To 50, Add	18.43	
For >50 To 100, Add	9.22	
For >500 To 1,000, Deduct	-1.55	
For >1,000 To 2,000, Deduct	-2.45	
For >2,000 To 5,000, Deduct	-4.42	
For >5,000, Deduct	-7.20	
33 01 70 72-0018 LF 5" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	31.50	
For Up To >10, Add	45.48	
For >10 To 25, Add	34.63	
For >25 To 50, Add	21.76	
For >50 To 100, Add	10.88	
For >500 To 1,000, Deduct	-1.87	
For >1,000 To 2,000, Deduct	-2.96	
For >2,000 To 5,000, Deduct	-5.33	
For >5,000, Deduct	-8.68	
33 01 70 72-0019 LF 6" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	36.73	
For Up To >10, Add	51.14	
For >10 To 25, Add	38.68	
For >25 To 50, Add	24.39	
For >50 To 100, Add	12.19	
For >500 To 1,000, Deduct	-2.16	
For >1,000 To 2,000, Deduct	-3.41	
For >2,000 To 5,000, Deduct	-6.11	
For >5,000, Deduct	-9.97	

33 05 Common Work Results for Utilities⁽³³⁾

33 05 05 Buried Piping Installation^(33 05)

33 05 05 43 Mandrel Testing^(33 05 05)

33 05 05 43-0001 Pipe Line Deflection Testing (Mandrel) On Existing Pipe^(33 05 05 43)

33 05 05 43-0002 EA Initial Set-up And Final Equipment Removal For Deflection Testing (Mandrel).....	748.20	
33 05 05 43-0003 EA Move And Set-up At Different Access/Location For Deflection Testing (Mandrel).....	374.10	
33 05 05 43-0004 LF Up To 4" Diameter Pipe Line Deflection Testing (Mandrel).....	1.15	
For >100 To 200, Deduct	-0.06	
For >200 To 400, Deduct	-0.12	
For >400, Deduct	-0.18	
33 05 05 43-0005 LF 6" Diameter Pipe Line Deflection Testing (Mandrel).....	1.71	
For >100 To 200, Deduct	-0.08	
For >200 To 400, Deduct	-0.15	
For >400, Deduct	-0.24	
33 05 05 43-0006 LF 8" Diameter Pipe Line Deflection Testing (Mandrel).....	2.04	
For >100 To 200, Deduct	-0.09	
For >200 To 400, Deduct	-0.18	
For >400, Deduct	-0.28	
33 05 05 43-0007 LF 10" Diameter Pipe Line Deflection Testing (Mandrel).....	2.38	
For >100 To 200, Deduct	-0.11	
For >200 To 400, Deduct	-0.20	
For >400, Deduct	-0.31	
33 05 05 43-0008 LF 12" Diameter Pipe Line Deflection Testing (Mandrel).....	2.66	
For >100 To 200, Deduct	-0.12	
For >200 To 400, Deduct	-0.22	
For >400, Deduct	-0.34	
33 05 05 43-0009 LF >12" To 15" Diameter Pipe Line Deflection Testing (Mandrel).....	2.81	
For >100 To 200, Deduct	-0.13	
For >200 To 400, Deduct	-0.24	
For >400, Deduct	-0.37	
33 05 05 43-0010 LF >15" To 24" Diameter Pipe Line Deflection Testing (Mandrel).....	2.98	
For >100 To 200, Deduct	-0.14	
For >200 To 400, Deduct	-0.26	
For >400, Deduct	-0.41	
33 05 05 43-0011 LF >24" To 30" Diameter Pipe Line Deflection Testing (Mandrel).....	3.29	
For >100 To 200, Deduct	-0.16	
For >200 To 400, Deduct	-0.31	
For >400, Deduct	-0.48	
33 05 05 43-0012 LF >30" To 42" Diameter Pipe Line Deflection Testing (Mandrel).....	3.92	
For >100 To 200, Deduct	-0.21	
For >200 To 400, Deduct	-0.39	
For >400, Deduct	-0.62	

33 Utilities**33 05 Common Work Results for Utilities****33 05 05 Buried Piping Installation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 05 43-0013 LF >42" To 48" Diameter Pipe Line Deflection Testing (Mandrel).....	5.26	
For >100 To 200, Deduct	-0.31	
For >200 To 400, Deduct	-0.58	
For >400, Deduct	-0.91	
33 05 05 43-0014 LF >48" To 60" Diameter Pipe Line Deflection Testing (Mandrel).....	6.72	
For >100 To 200, Deduct	-0.42	
For >200 To 400, Deduct	-0.79	
For >400, Deduct	-1.23	

33 05 07 Trenchless Installation of Utility Piping (33 05)**33 05 07 13 Utility Directional Drilling (33 05 07)****33 05 07 13-0001 Horizontal Augering (33 05 07 13)**

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0002 LF Up To 2" Diameter Horizontal Hand Augering	28.45	
33 05 07 13-0003 LF 3" Diameter Horizontal Hand Augering	34.34	
33 05 07 13-0004 LF 4" Diameter Horizontal Hand Augering	47.08	
33 05 07 13-0005 LF 6" Diameter Horizontal Hand Augering	60.83	
33 05 07 13-0006 LF 8" Diameter Horizontal Augering.....	112.49	
33 05 07 13-0007 LF 10" Diameter Horizontal Augering.....	164.10	
33 05 07 13-0008 LF 12" Diameter Horizontal Augering.....	197.18	
33 05 07 13-0009 LF 16" Diameter Horizontal Augering.....	235.57	
33 05 07 13-0010 LF 20" Diameter Horizontal Augering.....	407.62	
33 05 07 13-0011 LF 24" Diameter Horizontal Augering.....	509.80	
33 05 07 13-0012 LF 30" Diameter Horizontal Augering.....	628.80	
33 05 07 13-0013 LF 36" Diameter Horizontal Augering.....	718.43	
33 05 07 13-0014 LF 42" Diameter Horizontal Augering.....	923.59	
33 05 07 13-0015 LF 48" Diameter Horizontal Augering.....	995.19	
33 05 07 13-0016 LF 54" Diameter Horizontal Augering.....	1,082.31	
33 05 07 13-0017 LF 60" Diameter Horizontal Augering.....	1,134.68	
33 05 07 13-0018 EA Minimum Set-up Charge For 8" To 20" Horizontal Augering.....	3,705.56	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0019 EA Minimum Set-up Charge For >20" To 36" Horizontal Augering.....	5,289.03	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0020 EA Minimum Set-up Charge For >36" Horizontal Augering.....	8,380.88	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 13-0021 Horizontal Directional Boring (33 05 07 13)

Note: Excludes receiving pits or dewatering or cost of casing pipe. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0022 LF Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	15.61	
For Horizontal Boring Through Rock, Add	10.93	
33 05 07 13-0023 LF 2" Diameter Directional Boring For Horizontal Pipe, Underground	23.43	
For Horizontal Boring Through Rock, Add	16.40	
33 05 07 13-0024 LF 2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	32.53	
For Horizontal Boring Through Rock, Add	22.77	
33 05 07 13-0025 LF 3" Diameter Directional Boring For Horizontal Pipe, Underground	40.34	
For Horizontal Boring Through Rock, Add	28.24	
33 05 07 13-0026 LF 4" Diameter Directional Boring For Horizontal Pipe, Underground	48.14	
For Horizontal Boring Through Rock, Add	33.70	
33 05 07 13-0027 LF 5" Diameter Directional Boring For Horizontal Pipe, Underground	55.96	
For Horizontal Boring Through Rock, Add	39.17	
33 05 07 13-0028 LF 6" Diameter Directional Boring For Horizontal Pipe, Underground	65.06	
For Horizontal Boring Through Rock, Add	45.54	
33 05 07 13-0029 LF 8" Diameter Directional Boring For Horizontal Pipe, Underground	79.40	
For Horizontal Boring Through Rock, Add	55.58	
33 05 07 13-0030 LF 10" Diameter Directional Boring For Horizontal Pipe, Underground	86.02	
For Horizontal Boring Through Rock, Add	60.21	
33 05 07 13-0031 LF 12" Diameter Directional Boring For Horizontal Pipe, Underground	92.64	
For Horizontal Boring Through Rock, Add	64.85	
33 05 07 13-0032 LF 18" Diameter Directional Boring For Horizontal Pipe, Underground	191.89	
For Horizontal Boring Through Rock, Add	134.32	
33 05 07 13-0033 LF 24" Diameter Directional Boring For Horizontal Pipe, Underground	301.18	
For Horizontal Boring Through Rock, Add	210.83	
33 05 07 13-0034 LF 30" Diameter Directional Boring For Horizontal Pipe, Underground	459.12	
For Horizontal Boring Through Rock, Add	321.38	
33 05 07 13-0035 LF 36" Diameter Directional Boring For Horizontal Pipe, Underground	734.59	
For Horizontal Boring Through Rock, Add	514.21	
33 05 07 13-0036 EA Minimum Set-up Charge For Up To 6" Horizontal Directional Boring	2,862.87	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0037 EA Minimum Set-up Charge For >6" To 18" Horizontal Directional Boring.....	3,705.56	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0038 EA Minimum Set-up Charge For >18" To 36" Horizontal Directional Boring.....	5,289.03	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Trenchless Installation of Utility Piping	33 05 07	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 05 07 23 Utility Boring and Jacking (33 05 07)

33 05 07 23-0001 Horizontal Jacking (33 05 07 23)

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits.

33 05 07 23-0002	LF	Up To 2" Diameter Horizontal Jacking.....	73.75	
		<i>For Horizontal Jacking Through Rock, Add</i>	35.45	
33 05 07 23-0003	LF	3" Diameter Horizontal Jacking.....	88.43	
		<i>For Horizontal Jacking Through Rock, Add</i>	42.78	
33 05 07 23-0004	LF	4" Diameter Horizontal Jacking.....	119.53	
		<i>For Horizontal Jacking Through Rock, Add</i>	58.67	
33 05 07 23-0005	LF	6" Diameter Horizontal Jacking.....	154.48	
		<i>For Horizontal Jacking Through Rock, Add</i>	75.78	
33 05 07 23-0006	LF	8" Diameter Horizontal Jacking.....	209.33	
		<i>For Horizontal Jacking Through Rock, Add</i>	103.87	
33 05 07 23-0007	LF	10" Diameter Horizontal Jacking.....	306.86	
		<i>For Horizontal Jacking Through Rock, Add</i>	151.55	
33 05 07 23-0008	LF	12" Diameter Horizontal Jacking.....	369.43	
		<i>For Horizontal Jacking Through Rock, Add</i>	182.11	
33 05 07 23-0009	LF	16" Diameter Horizontal Jacking.....	441.08	
		<i>For Horizontal Jacking Through Rock, Add</i>	217.56	
33 05 07 23-0010	LF	20" Diameter Horizontal Jacking.....	688.71	
		<i>For Horizontal Jacking Through Rock, Add</i>	377.66	
33 05 07 23-0011	LF	24" Diameter Horizontal Jacking.....	1,130.82	
		<i>For Horizontal Jacking Through Rock, Add</i>	423.84	
33 05 07 23-0012	LF	30" Diameter Horizontal Jacking.....	1,314.99	
		<i>For Horizontal Jacking Through Rock, Add</i>	523.34	
33 05 07 23-0013	LF	36" Diameter Horizontal Jacking.....	1,485.26	
		<i>For Horizontal Jacking Through Rock, Add</i>	598.40	
33 05 07 23-0014	LF	42" Diameter Horizontal Jacking.....	1,595.58	
		<i>For Horizontal Jacking Through Rock, Add</i>	646.21	
33 05 07 23-0015	LF	48" Diameter Horizontal Jacking.....	1,730.13	
		<i>For Horizontal Jacking Through Rock, Add</i>	696.26	
33 05 07 23-0016	LF	54" Diameter Horizontal Jacking.....	1,849.31	
		<i>For Horizontal Jacking Through Rock, Add</i>	757.76	
33 05 07 23-0017	EA	Minimum Set-up Charge For Up To 6" Horizontal Jacking	2,862.87	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018	EA	Minimum Set-up Charge For >6" To 20" Horizontal Jacking.....	3,705.56	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019	EA	Minimum Set-up Charge For >20" To 36" Horizontal Jacking.....	5,289.03	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020	EA	Minimum Set-up Charge For >36" Horizontal Jacking	8,380.88	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)

33 05 07 24-0001 Casing Pipe (33 05 07 24)

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002 Steel Pipe (33 05 07 24-0001)

33 05 07 24-0003	LF	1-1/2" Steel Pipe Pull In Place By Boring Machine.....	21.69	
		Note: Includes pipe welding.		
33 05 07 24-0004	LF	2" Steel Pipe Pull In Place By Boring Machine	22.97	
		Note: Includes pipe welding.		
33 05 07 24-0005	LF	2-1/2" Steel Pipe Pull In Place By Boring Machine.....	24.82	
		Note: Includes pipe welding.		
33 05 07 24-0006	LF	3" Steel Pipe Pull In Place By Boring Machine	26.71	
		Note: Includes pipe welding.		
33 05 07 24-0007	LF	4" Steel Pipe Pull In Place By Boring Machine	33.85	
		Note: Includes pipe welding.		
33 05 07 24-0008	LF	5" Steel Pipe Pull In Place By Boring Machine	38.31	
		Note: Includes pipe welding.		
33 05 07 24-0009	LF	6" Steel Pipe Pull In Place By Boring Machine	42.78	
		Note: Includes pipe welding.		

33 05 07 24-0010 Polyethylene Pipe (33 05 07 24-0001)

Note: Includes detectable tracer wire.

33 05 07 24-0011	LF	3/4" Polyethylene Pipe Pull In Place By Boring Machine.....	6.29	
		Note: Includes pipe welding.		
33 05 07 24-0012	LF	1" Polyethylene Pipe Pull In Place By Boring Machine.....	6.91	
		Note: Includes pipe welding.		
33 05 07 24-0013	LF	1-1/4" Polyethylene Pipe Pull In Place By Boring Machine.....	7.50	
		Note: Includes pipe welding.		
33 05 07 24-0014	LF	1-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	8.02	
		Note: Includes pipe welding.		

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 24-0015	LF	2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	8.58	
33 05 07 24-0016	LF	2-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	9.17	
33 05 07 24-0017	LF	3" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	9.77	
33 05 07 24-0018	LF	4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	11.80	
33 05 07 24-0019	LF	5" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	13.05	
33 05 07 24-0020	LF	6" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	14.30	
33 05 07 24-0021	LF	8" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	18.54	
33 05 07 24-0022	LF	10" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	25.15	

33 05 09 Piping Specials for Utilities (33 05)**33 05 09 13 Couplings for Utility Piping** (33 05 09)

See CSI section 33 42 11 00-0058 for couplings.

33 05 09 23 Adapters for Utility Piping (33 05 09)

See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.

33 05 09 33 Thrust Restraint for Utility Piping (33 05 09)

See CSI section 33 14 13 13-0547 for mechanical restraints, 33 14 13 13-0582 for flanged restraints, 33 14 13 13-1167 for slip-on restraints, 33 14 13 13-1183 for slip-on restraint harnesses.

33 05 16 Cast-Iron Utility Pipe (33 05)

See CSI section 22 13 16 00-0019 for cast iron utility piping.

33 05 17 Copper Utility Pipe and Tubing (33 05)

See CSI section 33 14 13 39-0000 for copper utility piping.

33 05 19 Ductile-Iron Utility Pipe (33 05)

See CSI section 33 14 13 13-0000 for ductile iron utility piping.

33 05 24 Steel Utility Pipe (33 05)**33 05 24 23 Steel Pipe for Water Service** (33 05 24)

See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.

33 05 27 Corrugated Metal Utility Pipe (33 05)**33 05 27 13 Corrugated Metal Culvert Pipe** (33 05 27)

See CSI section 33 42 11 00-0498 for corrugated metal culvert pipe.

33 05 27 23 Corrugated Metal Slotted Pipe (33 05 27)

See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.

33 05 27 33 Corrugated Metal Culvert Arch Pipe (33 05 27)

See CSI section 33 42 11 00-0842 for corrugated metal culvert arch pipe.

33 05 31 Thermoplastic Utility Pipe (33 05)**33 05 31 11 Polyvinyl Chloride Gravity Sewer Pipe** (33 05 31)

See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.

33 05 31 13 Polyvinyl Chloride Pressure Pipe (33 05 31)

See CSI section 33 14 13 23-0001 for polyvinyl chloride pressure pipe.

33 05 31 16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) (33 05 31)

See CSI section 33 14 13 23-0285 for AWWA C900 and 905 polyvinyl chloride pressure pipe.

33 05 33 Polyethylene Utility Pipe (33 05)**33 05 33 13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe** (33 05 33)

See CSI section 33 42 11 00-0239 for corrugated-wall smooth interior HDPE gravity pipe.

33 05 33 23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) (33 05 33)

See CSI section 33 14 13 23-0540 for AWWA C906 high-density polyethylene pipe.

33 05 33 33 Corrugated, Perforated HDPE Drainage Pipe (33 05 33)

See CSI section 33 42 11 00-0261 for corrugated perforated HDPE drainage pipe.

33 05 33 36 Corrugated, Non-Perforated HDPE Drainage Pipe (33 05 33)

See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.

33 05 33 63 HDPE Communication Duct (33 05 33)**33 05 33 63-0001 ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine** (33 05 33 63)

Note: Excludes boring.



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Polyethylene Utility Pipe	33 05 33	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33 63-0002	LF	1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	4.10	
		For Up To 250, Add	0.13	
		For >250 To 500, Add	0.09	
33 05 33 63-0003	LF	1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	4.59	
		For Up To 250, Add	0.16	
		For >250 To 500, Add	0.11	
33 05 33 63-0004	LF	1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	4.99	
		For Up To 250, Add	0.18	
		For >250 To 500, Add	0.12	
33 05 33 63-0005	LF	2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	5.48	
		For Up To 250, Add	0.21	
		For >250 To 500, Add	0.14	
33 05 33 63-0006	LF	3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	7.37	
		For Up To 250, Add	0.45	
		For >250 To 500, Add	0.30	
33 05 33 63-0007	LF	4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	9.31	
		For Up To 250, Add	0.69	
		For >250 To 500, Add	0.46	
33 05 33 63-0008	LF	1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	4.19	
		For Up To 250, Add	0.14	
		For >250 To 500, Add	0.10	
33 05 33 63-0009	LF	1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	4.76	
		For Up To 250, Add	0.18	
		For >250 To 500, Add	0.12	
33 05 33 63-0010	LF	1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	5.13	
		For Up To 250, Add	0.20	
		For >250 To 500, Add	0.13	
33 05 33 63-0011	LF	2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	5.82	
		For Up To 250, Add	0.27	
		For >250 To 500, Add	0.18	
33 05 33 63-0012	LF	3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	8.13	
		For Up To 250, Add	0.56	
		For >250 To 500, Add	0.38	
33 05 33 63-0013	LF	4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....	10.27	
		For Up To 250, Add	0.83	
		For >250 To 500, Add	0.55	

33 05 39 Concrete Pipe (33 05)

33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) (33 05 39)

See CSI section 33 42 11 00-0092 for prestressed concrete pressure pipe.

33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts (33 05 39)

See CSI section 33 42 11 00-0001 for reinforced concrete pipe.

33 05 41 Vitrified Clay Utility Pipe (33 05)

See CSI section 33 42 11 00-0365 for vitrified clay piping.

33 05 61 Concrete Manholes (33 05 61)

33 05 61 00-0001 Manholes (33 05 61)

33 05 61 00-0002 Precast Concrete Manholes (33 05 61 00-0001)

Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover.
See CSI section 33 05 84 00-0002 for top slabs.

33 05 61 00-0003 3' Diameter, Precast Concrete Manholes (33 05 61 00-0002)

33 05 61 00-0004	EA	4' Deep, 3' Diameter, Precast Concrete Manhole.....	1,828.20	329.28
		For Bitumastic Coating, Add	84.11	
		For Epoxy Coating, Add	160.72	
33 05 61 00-0005	EA	6' Deep, 3' Diameter, Precast Concrete Manhole.....	2,491.84	472.97
		For Bitumastic Coating, Add	126.16	
		For Epoxy Coating, Add	241.09	
33 05 61 00-0006	EA	8' Deep, 3' Diameter, Precast Concrete Manhole.....	3,359.04	718.43
		For Bitumastic Coating, Add	168.22	
		For Epoxy Coating, Add	321.45	
33 05 61 00-0007	VLF	Riser For 3' Diameter, Precast Concrete Manhole.....	355.77	83.82
		Note: For depths greater than 8'.		
		For Bitumastic Coating, Add	21.03	
		For Epoxy Coating, Add	40.18	
33 05 61 00-0008	VLF	Drop Collar For 3' Diameter, Precast Concrete Manhole.....	383.36	83.82
33 05 61 00-0009	EA	Drop Base For 3' Diameter, Precast Concrete Manhole.....	613.04	83.82
33 05 61 00-0010	EA	Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	489.70	83.82

33 Utilities**33 05 Common Work Results for Utilities****33 05 61 Concrete Manholes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole	699.77	83.82
33 05 61 00-0012 4' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole	2,532.11	377.18
For Bitumastic Coating, Add	84.11	
For Epoxy Coating, Add	160.72	
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole	3,380.85	514.87
For Bitumastic Coating, Add	126.16	
For Epoxy Coating, Add	241.09	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole	4,470.02	778.30
For Bitumastic Coating, Add	168.22	
For Epoxy Coating, Add	321.45	
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole	479.74	98.79
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	21.03	
For Epoxy Coating, Add	40.18	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole	521.57	98.79
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole	869.66	98.79
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole	682.74	98.79
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole	1,001.15	98.79
33 05 61 00-0021 5' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole	4,733.39	419.08
For Bitumastic Coating, Add	108.37	
For Epoxy Coating, Add	259.10	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole	6,304.99	574.74
For Bitumastic Coating, Add	162.55	
For Epoxy Coating, Add	388.65	
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole	8,143.12	862.12
For Bitumastic Coating, Add	216.74	
For Epoxy Coating, Add	518.21	
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole	847.55	107.77
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	27.09	
For Epoxy Coating, Add	64.78	
33 05 61 00-0026 6' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole	6,343.65	466.98
For Bitumastic Coating, Add	124.07	
For Epoxy Coating, Add	303.34	
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole	8,264.74	634.61
For Bitumastic Coating, Add	186.10	
For Epoxy Coating, Add	455.01	
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole	10,484.21	957.90
For Bitumastic Coating, Add	248.13	
For Epoxy Coating, Add	606.68	
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole	1,028.67	119.74
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	31.02	
For Epoxy Coating, Add	75.84	
33 05 61 00-0031 7' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole	9,984.29	514.87
For Bitumastic Coating, Add	263.83	
For Epoxy Coating, Add	530.07	
33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole	12,913.91	702.26
For Bitumastic Coating, Add	395.74	
For Epoxy Coating, Add	795.10	
33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole	16,171.61	1,053.69
For Bitumastic Coating, Add	527.66	
For Epoxy Coating, Add	1,060.14	
33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole	1,540.84	131.71
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	65.96	
For Epoxy Coating, Add	132.52	
33 05 61 00-0036 8' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole	14,437.79	592.71
For Bitumastic Coating, Add	311.90	
For Epoxy Coating, Add	646.11	
33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole	18,723.65	808.23
For Bitumastic Coating, Add	467.86	
For Epoxy Coating, Add	969.16	
33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole	23,386.67	1,212.34
For Bitumastic Coating, Add	623.81	
For Epoxy Coating, Add	1,292.21	



		Utilities	33
		Common Work Results for Utilities	33 05
		Concrete Manholes	33 05 61

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0040 VLF Riser For 8' Diameter, Precast Concrete Manhole Note: For depths greater than 8'. For Bitumastic Coating, Add For Epoxy Coating, Add	2,226.74 77.98 161.53	149.67

33 05 63 Concrete Vaults and Chambers (33 05)

33 05 63 00-0001 Underground Utility Vaults And Structures (33 05 63)
See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.

33 05 63 00-0002 Precast Concrete Underground Utility Vault (33 05 63 00-0001)
Note: Sizes given are for inside dimensions.

33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)

33 05 63 00-0004	EA	4' x 4' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,872.06
33 05 63 00-0005	EA	4' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,047.26
33 05 63 00-0006	EA	5' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,326.79
33 05 63 00-0007	EA	5' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,614.66
33 05 63 00-0008	EA	6' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,450.15
33 05 63 00-0009	EA	6' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,851.81
33 05 63 00-0010	EA	6' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,254.70
33 05 63 00-0011	EA	6' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,371.25
33 05 63 00-0012	EA	6' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,371.25
33 05 63 00-0013	EA	6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,836.53
33 05 63 00-0014	EA	8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,482.40
33 05 63 00-0015	EA	8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,111.80
33 05 63 00-0016	EA	8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,883.38
33 05 63 00-0017	EA	8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,876.66

33 05 63 00-0018 7' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)

33 05 63 00-0019	EA	4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,150.03
33 05 63 00-0020	EA	4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,388.65
33 05 63 00-0021	EA	4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,807.24
33 05 63 00-0022	EA	5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,057.80
33 05 63 00-0023	EA	5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,443.91
33 05 63 00-0024	EA	6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,848.94
33 05 63 00-0025	EA	6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,534.93
33 05 63 00-0026	EA	6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,769.53
33 05 63 00-0027	EA	6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,540.84
33 05 63 00-0028	EA	6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,266.16
33 05 63 00-0029	EA	8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,262.52
33 05 63 00-0030	EA	8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,989.00
33 05 63 00-0031	EA	8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,183.67
33 05 63 00-0032	EA	8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	19,305.07
33 05 63 00-0033	EA	10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,442.81

33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)

33 05 63 00-0035	EA	4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,652.19
33 05 63 00-0036	EA	4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,022.72

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0037	EA	5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,788.80	
33 05 63 00-0038	EA	5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,271.97	
33 05 63 00-0039	EA	6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,619.74	
33 05 63 00-0040	EA	6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,216.77	
33 05 63 00-0041	EA	6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,813.83	
33 05 63 00-0042	EA	6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,710.41	
33 05 63 00-0043	EA	6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	19,695.85	
33 05 63 00-0044	EA	8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,041.47	
33 05 63 00-0045	EA	8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	12,866.18	
33 05 63 00-0046	EA	8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,482.67	
33 05 63 00-0047	EA	8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	20,734.76	
33 05 63 00-0048	EA	10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,742.72	
33 05 63 00-0049		10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050	EA	6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,204.56	
33 05 63 00-0051	EA	6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,898.62	
33 05 63 00-0052	EA	10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	20,041.67	
33 05 63 00-0053		12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0054	EA	6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,789.35	
33 05 63 00-0055	EA	6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,581.71	
33 05 63 00-0056		Meter Pit (33 05 63 00-0001)		
33 05 63 00-0057		Precast Concrete Meter Pit (33 05 63 00-0056)		
33 05 63 00-0058	EA	4' x 4' x 4' Deep Precast Concrete Meter Pit.....	3,936.39	
33 05 63 00-0059	EA	4' x 4' x 6' Deep Precast Concrete Meter Pit.....	5,350.77	
33 05 63 00-0060	EA	4' x 4' x 8' Deep Precast Concrete Meter Pit.....	6,737.00	
33 05 63 00-0061	EA	4' x 4' x 10' Deep Precast Concrete Meter Pit.....	8,358.01	
33 05 63 00-0062	EA	4' x 4' x 15' Deep Precast Concrete Meter Pit.....	11,589.57	
33 05 63 00-0063	EA	6' x 6' x 4' Deep Precast Concrete Meter Pit.....	5,981.37	
33 05 63 00-0064	EA	6' x 6' x 6' Deep Precast Concrete Meter Pit.....	8,358.01	
33 05 63 00-0065	EA	6' x 6' x 8' Deep Precast Concrete Meter Pit.....	10,787.02	
33 05 63 00-0066	EA	6' x 6' x 10' Deep Precast Concrete Meter Pit.....	13,456.44	
33 05 63 00-0067	EA	6' x 6' x 15' Deep Precast Concrete Meter Pit.....	19,217.04	
33 05 63 00-0068		Handhole Or Pull Box Enclosures (33 05 63 00-0001)		
33 05 63 00-0069		Polymer Concrete Handhole Enclosures (33 05 63 00-0068)		
33 05 63 00-0070		Polymer Concrete Handhole Enclosures (33 05 63 00-0069) Note: Excludes cover See CSI section 33 05 63 00-0290 for covers.		
33 05 63 00-0071		Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0072		Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0073	EA	12" x 12", 24" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	337.30	25.94
33 05 63 00-0074	EA	10" x 15", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	294.28	57.60
33 05 63 00-0075	EA	13" x 24", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	449.15	86.41
33 05 63 00-0076	EA	17" x 30", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	520.87	86.41
33 05 63 00-0077	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	497.17	86.41
33 05 63 00-0078	EA	13" x 24", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	600.62	86.41
33 05 63 00-0079	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	585.01	86.41
33 05 63 00-0080	EA	17" x 30", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	794.47	86.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0081 EA 27" Round, 36" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,127.76	115.21
33 05 63 00-0082 EA 27" Round, 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,578.55	115.21
33 05 63 00-0083 EA 24" x 36", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,028.49	158.40
33 05 63 00-0084 EA 24" x 36", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,169.66	158.40
33 05 63 00-0085 EA 24" x 36", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,904.03	158.40
33 05 63 00-0086 EA 39" Round, 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,098.62	172.81
33 05 63 00-0087 EA 39" Round, 24" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,561.03	172.81
33 05 63 00-0088 EA 39" Round, 36" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,939.18	172.81
33 05 63 00-0089 EA 39" Round, 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,833.56	172.81
33 05 63 00-0090 EA 30" x 48", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,611.11	279.38
33 05 63 00-0091 EA 30" x 48", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,307.06	279.38
33 05 63 00-0092 Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0093 EA 12" x 12", 24" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	431.00	25.94
33 05 63 00-0094 EA 13" x 24", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	560.75	86.41
33 05 63 00-0095 EA 17" x 30", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	676.20	86.41
33 05 63 00-0096 EA 13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	624.52	86.41
33 05 63 00-0097 EA 13" x 24", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	712.94	86.41
33 05 63 00-0098 EA 17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	736.12	86.41
33 05 63 00-0099 EA 17" x 30", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	946.89	86.41
33 05 63 00-0100 EA 24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,265.80	158.40
33 05 63 00-0101 EA 24" x 36", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,406.97	158.40
33 05 63 00-0102 EA 24" x 36", 48" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,141.37	158.40
33 05 63 00-0103 EA 30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,888.42	279.38
33 05 63 00-0104 EA 30" x 48", 48" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,589.67	279.38
33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0107 EA 5" x 16", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	551.58	25.94
33 05 63 00-0108 EA 10" x 12", 15" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	466.78	25.94
33 05 63 00-0109 EA 13" x 24", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	386.56	86.41
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	436.60	86.41
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	131.78	25.94
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	202.70	25.94
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	325.79	25.94
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	340.68	25.94
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	289.08	57.60
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	311.93	57.60
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	199.65	25.94
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	227.56	25.94
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	309.55	57.60
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	347.97	57.60
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	323.11	57.60
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	388.89	86.41
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	426.57	86.41

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0124	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	454.59	86.41
33 05 63 00-0125	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	496.79	86.41
33 05 63 00-0126	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	580.95	86.41
33 05 63 00-0127	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	632.00	86.41
33 05 63 00-0128	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	687.87	86.41
33 05 63 00-0129	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	722.99	86.41
33 05 63 00-0130	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	862.97	115.21
33 05 63 00-0131	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	875.56	158.40
33 05 63 00-0132	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,120.22	158.40
33 05 63 00-0133	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,346.13	158.40
33 05 63 00-0134	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,488.80	158.40
33 05 63 00-0135	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,630.70	158.40
33 05 63 00-0136	EA	36" x 36", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,882.62	279.38
33 05 63 00-0137	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,382.49	279.38
33 05 63 00-0138	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,563.69	279.38
33 05 63 00-0139	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,910.17	279.38
33 05 63 00-0140	EA	30" x 60", 21" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,906.61	279.38
33 05 63 00-0141	EA	30" x 60", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,035.95	279.38
33 05 63 00-0142	EA	30" x 60", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,284.69	279.38
33 05 63 00-0143	EA	36" x 48", 19" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,108.06	299.34
33 05 63 00-0144	EA	36" x 60", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,283.67	299.34
33 05 63 00-0145	EA	36" x 60", 31" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,507.88	299.34
33 05 63 00-0146	EA	36" x 60", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,597.59	299.34
33 05 63 00-0147	EA	48" x 48", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,628.77	299.34
33 05 63 00-0148	EA	48" x 48", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,970.40	299.34
33 05 63 00-0149	EA	36" x 72", 21" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,306.95	299.34
33 05 63 00-0150	EA	36" x 72", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,026.79	299.34
33 05 63 00-0151	EA	48" x 72", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,404.15	319.29
33 05 63 00-0152	EA	48" x 72", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,187.36	319.29
33 05 63 00-0153	EA	48" x 96", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,354.57	319.29
33 05 63 00-0154		Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	516.48	86.41
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	590.72	86.41
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	220.75	25.94
33 05 63 00-0158	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	317.68	25.94
33 05 63 00-0159	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	424.82	25.94
33 05 63 00-0160	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	439.74	25.94
33 05 63 00-0161	EA	10" x 15", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	386.63	57.60
33 05 63 00-0162	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	402.54	57.60
33 05 63 00-0163	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	423.80	57.60
33 05 63 00-0164	EA	8" x 8", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	296.67	25.94



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0165	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	350.03	25.94
33 05 63 00-0166	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	423.28	57.60
33 05 63 00-0167	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	461.70	57.60
33 05 63 00-0168	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	438.04	57.60
33 05 63 00-0169	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	515.77	86.41
33 05 63 00-0170	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	553.91	86.41
33 05 63 00-0171	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	606.00	86.41
33 05 63 00-0172	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	647.93	86.41
33 05 63 00-0173	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	731.84	86.41
33 05 63 00-0174	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	783.12	86.41
33 05 63 00-0175	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	838.74	86.41
33 05 63 00-0176	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	874.11	86.41
33 05 63 00-0177	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,071.72	115.21
33 05 63 00-0178	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,112.90	158.40
33 05 63 00-0179	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,357.26	158.40
33 05 63 00-0180	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,582.92	158.40
33 05 63 00-0181	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,725.37	158.40
33 05 63 00-0182	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,867.74	158.40
33 05 63 00-0183	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,657.18	279.38
33 05 63 00-0184	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,838.65	279.38
33 05 63 00-0185	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,184.87	279.38
33 05 63 00-0186		Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0187	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	475.00	86.41
33 05 63 00-0188	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	551.29	86.41
33 05 63 00-0189	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	164.04	25.94
33 05 63 00-0190	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	267.88	25.94
33 05 63 00-0191	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	383.38	25.94
33 05 63 00-0192	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	398.57	25.94
33 05 63 00-0193	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	359.35	57.60
33 05 63 00-0194	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	403.57	57.60
33 05 63 00-0195	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	234.82	25.94
33 05 63 00-0196	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	381.08	57.60
33 05 63 00-0197	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	436.16	57.60
33 05 63 00-0198	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	395.39	57.60
33 05 63 00-0199	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	509.92	86.41
33 05 63 00-0200	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	585.23	86.41
33 05 63 00-0201	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	610.27	86.41
33 05 63 00-0202	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	669.90	86.41
33 05 63 00-0203	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	724.76	86.41
33 05 63 00-0204	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	776.55	86.41
33 05 63 00-0205	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	869.29	86.41
33 05 63 00-0206	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	882.22	86.41
33 05 63 00-0207	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,087.89	115.21

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0208	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,133.86	158.40
33 05 63 00-0209	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,403.74	158.40
33 05 63 00-0210	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,670.64	158.40
33 05 63 00-0211	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,847.92	158.40
33 05 63 00-0212	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,025.20	158.40
33 05 63 00-0213	EA	36" x 36", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,212.92	279.38
33 05 63 00-0214	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,712.80	279.38
33 05 63 00-0215	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,908.14	279.38
33 05 63 00-0216	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,254.38	279.38
33 05 63 00-0217	EA	30" x 60", 21" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,407.11	279.38
33 05 63 00-0218	EA	30" x 60", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,454.93	279.38
33 05 63 00-0219	EA	30" x 60", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,918.89	279.38
33 05 63 00-0220	EA	36" x 60", 19" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,715.20	299.34
33 05 63 00-0221	EA	36" x 60", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,805.94	299.34
33 05 63 00-0222	EA	36" x 60", 31" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,063.34	299.34
33 05 63 00-0223	EA	36" x 60", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,258.16	299.34
33 05 63 00-0224	EA	36" x 72", 21" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,997.75	299.34
33 05 63 00-0225	EA	36" x 72", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,694.50	299.34
33 05 63 00-0226	EA	48" x 48", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,214.68	299.34
33 05 63 00-0227	EA	48" x 48", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,527.30	299.34
33 05 63 00-0228	EA	48" x 72", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,264.05	319.29
33 05 63 00-0229	EA	48" x 72", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,047.58	319.29
33 05 63 00-0230	EA	48" x 96", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	6,786.34	319.29
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)				
33 05 63 00-0232	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	604.90	86.41
33 05 63 00-0233	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	705.70	86.41
33 05 63 00-0234	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	252.29	25.94
33 05 63 00-0235	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	382.64	25.94
33 05 63 00-0236	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	482.21	25.94
33 05 63 00-0237	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	497.60	25.94
33 05 63 00-0238	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	473.08	57.60
33 05 63 00-0239	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	517.03	57.60
33 05 63 00-0240	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	360.93	25.94
33 05 63 00-0241	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	494.29	57.60
33 05 63 00-0242	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	549.37	57.60
33 05 63 00-0243	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	477.87	57.60
33 05 63 00-0244	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	637.31	86.41
33 05 63 00-0245	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	712.62	86.41
33 05 63 00-0246	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	761.39	86.41
33 05 63 00-0247	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	821.04	86.41
33 05 63 00-0248	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	875.88	86.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	927.69	86.41
33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,020.45	86.41
33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,033.33	86.41
33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,296.37	115.21
33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,371.17	158.40
33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,640.81	158.40
33 05 63 00-0255 EA 24" x 36", 30" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,907.42	158.40
33 05 63 00-0256 EA 24" x 36", 36" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,084.83	158.40
33 05 63 00-0257 EA 24" x 36", 42" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,262.24	158.40
33 05 63 00-0258 EA 30" x 48", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,987.75	279.38
33 05 63 00-0259 EA 30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,183.35	279.38
33 05 63 00-0260 EA 30" x 48", 36" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,529.34	279.38
33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0262 EA 17" x 30", 12" Depth, 5,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	506.67	86.41
33 05 63 00-0263 EA 11" x 18", 12" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	342.15	57.60
33 05 63 00-0264 EA 11" x 18", 18" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	384.62	57.60
33 05 63 00-0265 EA 13" x 24", 12" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	451.55	86.41
33 05 63 00-0266 EA 11" x 18", 12" Depth, 22,500 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	356.06	57.60
33 05 63 00-0267 EA 11" x 18", 18" Depth, 22,500 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	396.74	57.60
33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions (33 05 63 00-0069)		
Note: Excludes bases See CSI section 33 05 63 00-0070 for bases.		
33 05 63 00-0269 EA 13" x 24", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	372.47	86.41
33 05 63 00-0270 EA 17" x 30", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	416.73	86.41
33 05 63 00-0271 EA 24" x 24", 6" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	479.88	115.21
33 05 63 00-0272 EA 24" x 24", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	523.33	115.21
33 05 63 00-0273 EA 24" x 36", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	622.15	158.40
33 05 63 00-0274 EA 36" x 36", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,124.70	279.38
33 05 63 00-0275 EA 30" x 48", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,077.19	279.38
33 05 63 00-0276 EA 30" x 48", 11" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,087.56	279.38
33 05 63 00-0277 EA 36" x 60", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,451.63	299.34
33 05 63 00-0278 EA 48" x 72", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	2,273.08	319.29
33 05 63 00-0279 EA 48" x 96", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	2,963.24	319.29
33 05 63 00-0280 EA 13" x 24", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	604.72	86.41
33 05 63 00-0281 EA 17" x 30", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	631.76	86.41
33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	677.99	115.21
33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	721.91	115.21
33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	839.43	158.40
33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	1,384.26	279.38
33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	472.53	86.41
33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	525.87	86.41
33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	698.67	158.40
33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	1,400.76	299.34
33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)		
33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 63 00-0292	EA	5" x 16", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	130.85	11.53
33 05 63 00-0293	EA	10" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	132.56	11.53
33 05 63 00-0294	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	122.81	11.53
33 05 63 00-0295	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	132.89	11.53
33 05 63 00-0296	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	134.18	11.52
33 05 63 00-0297	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	154.03	11.52
33 05 63 00-0298	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	178.58	11.52
33 05 63 00-0299	EA	30" x 59", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,177.21	35.92
33 05 63 00-0300	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,030.83	35.92
33 05 63 00-0301	EA	36" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,540.71	35.92
33 05 63 00-0302	EA	48" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,558.09	35.92
33 05 63 00-0303	EA	36" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,764.40	35.92
33 05 63 00-0304	EA	48" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,921.98	35.92
33 05 63 00-0305	EA	48" x 96", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	3,085.46	35.92
33 05 63 00-0306	EA	10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	111.98	11.52
33 05 63 00-0307	EA	11" x 18", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	160.70	11.52
33 05 63 00-0308	EA	11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	162.97	11.52
33 05 63 00-0309	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	205.19	11.52
33 05 63 00-0310	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	154.66	11.52
33 05 63 00-0311	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	242.85	11.52
33 05 63 00-0312	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	190.54	11.52
33 05 63 00-0313	EA	27" Round, 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	391.65	11.52
33 05 63 00-0314	EA	24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	342.81	17.28
33 05 63 00-0315	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	429.86	17.28
33 05 63 00-0316	EA	39" Round, 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	554.14	20.16
33 05 63 00-0317	EA	36" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	781.21	27.94
33 05 63 00-0318	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	812.12	53.22
33 05 63 00-0319	EA	11" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	207.72	11.52
33 05 63 00-0320	EA	13" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	296.43	11.52
33 05 63 00-0321	EA	17" x 30", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	337.38	11.52
33 05 63 00-0322	EA	27" Round, 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	561.38	11.52
33 05 63 00-0323	EA	24" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	462.47	17.28
33 05 63 00-0324	EA	39" Round, 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	782.06	20.16
33 05 63 00-0325	EA	36" x 36", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,028.11	27.94
33 05 63 00-0326	EA	30" x 59", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,387.08	35.92
33 05 63 00-0327	EA	30" x 60", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,233.71	35.92
33 05 63 00-0328	EA	36" x 60", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,721.43	35.92
33 05 63 00-0329	EA	48" x 48", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,240.14	35.92
33 05 63 00-0330	EA	36" x 72", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,145.52	35.92
33 05 63 00-0331	EA	48" x 72", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,254.38	35.92
33 05 63 00-0332	EA	48" x 96", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	5,024.24	35.92
33 05 63 00-0333	EA	11" x 18", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	273.44	11.52
33 05 63 00-0334	EA	11" x 20", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	299.07	11.52
33 05 63 00-0335	EA	13" x 24", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	393.98	11.52
33 05 63 00-0336	EA	17" x 30", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	449.06	11.52
33 05 63 00-0337	EA	27" Round, 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	776.62	11.52
33 05 63 00-0338	EA	24" x 24", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	563.90	17.28
33 05 63 00-0339	EA	24" x 36", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	771.28	17.28
33 05 63 00-0340	EA	39" Round, 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,196.18	20.16
33 05 63 00-0341	EA	36" x 36", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,371.80	27.94
33 05 63 00-0342	EA	30" x 48", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,427.48	53.22
33 05 63 00-0343	EA	30" x 60", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,651.14	35.92
33 05 63 00-0344	EA	36" x 60", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,303.24	35.92
33 05 63 00-0345	EA	48" x 48", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,220.44	35.92
33 05 63 00-0346	EA	36" x 72", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,874.29	35.92
33 05 63 00-0347	EA	48" x 72", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	4,760.20	35.92
33 05 63 00-0348	EA	48" x 96", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	7,344.87	35.92

33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)

33 05 63 00-0350	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	150.36	11.53
33 05 63 00-0351	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	158.94	11.53
33 05 63 00-0352	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	161.73	11.52
33 05 63 00-0353	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	162.79	11.52
33 05 63 00-0354	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	187.94	11.52
33 05 63 00-0355	EA	10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	119.89	11.52
33 05 63 00-0356	EA	11" x 18", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	168.81	11.52
33 05 63 00-0357	EA	11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	170.38	11.52
33 05 63 00-0358	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	213.55	11.52
33 05 63 00-0359	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	163.75	11.52
33 05 63 00-0360	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	200.15	11.52
33 05 63 00-0361	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	251.69	11.52
33 05 63 00-0362	EA	24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	348.74	17.28
33 05 63 00-0363	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	438.97	17.28
33 05 63 00-0364	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	821.49	53.22
33 05 63 00-0365	EA	6" x 8", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	99.78	11.53
33 05 63 00-0366	EA	8" x 8", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	156.26	11.53
33 05 63 00-0367	EA	8" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	173.86	11.53
33 05 63 00-0368	EA	12" x 12", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	166.04	11.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0369 EA 10" x 15", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	136.71	11.52
33 05 63 00-0370 EA 11" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	215.81	11.52
33 05 63 00-0371 EA 11" x 20", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	234.09	11.52
33 05 63 00-0372 EA 13" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	305.03	11.52
33 05 63 00-0373 EA 17" x 30", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	346.72	11.52
33 05 63 00-0374 EA 24" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	470.83	17.28
33 05 63 00-0375 EA 24" x 36", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	588.05	17.28
33 05 63 00-0376 EA 30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	1,080.50	53.22
33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)		
33 05 63 00-0378 EA 6" x 9", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	80.36	11.53
33 05 63 00-0379 EA 7" x 13", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	95.55	11.53
33 05 63 00-0380 EA 12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	116.00	11.53
33 05 63 00-0381 EA 8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	125.10	11.53
33 05 63 00-0382 EA 11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	124.84	11.52
33 05 63 00-0383 EA 13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	148.14	11.52
33 05 63 00-0384 EA 17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	171.03	11.52
33 05 63 00-0385 EA 24" x 36", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	414.94	17.28
33 05 63 00-0386 EA 30" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	778.03	53.22
33 05 63 00-0387 EA 30" x 59", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,164.42	35.92
33 05 63 00-0388 EA 30" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,016.38	35.92
33 05 63 00-0389 EA 48" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,516.94	35.92
33 05 63 00-0390 EA 36" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,464.01	35.92
33 05 63 00-0391 EA 36" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,750.60	35.92
33 05 63 00-0392 EA 48" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,871.00	35.92
33 05 63 00-0393 EA 48" x 96", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,987.48	35.92
33 05 63 00-0394 EA 10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	107.66	11.52
33 05 63 00-0395 EA 10" x 16", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	105.13	11.52
33 05 63 00-0396 EA 11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	155.24	11.52
33 05 63 00-0397 EA 11" x 21", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	170.58	11.52
33 05 63 00-0398 EA 13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	193.07	11.52
33 05 63 00-0399 EA 13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts	146.82	11.52
33 05 63 00-0400 EA 18" x 19", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	163.75	11.52
33 05 63 00-0401 EA 17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	232.23	11.52
33 05 63 00-0402 EA 24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	335.93	17.28
33 05 63 00-0403 EA 20" x 42", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	419.66	17.28
33 05 63 00-0404 EA 24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	414.69	17.28
33 05 63 00-0405 EA 36" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	750.12	27.94
33 05 63 00-0406 EA 30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	778.03	31.93
33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0408 EA 30" x 60", 5,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,212.11	35.92
33 05 63 00-0409 EA 36" x 60", 5,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,752.37	35.92
33 05 63 00-0410 EA 30" x 48", 8,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,017.31	53.22
33 05 63 00-0411 EA 30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,347.11	53.22
33 05 63 00-0412 EA 30" x 60", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,438.96	35.92
33 05 63 00-0413 EA 36" x 60", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,958.92	35.92
33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0415 EA 24" x 36", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	470.98	17.28
33 05 63 00-0416 EA 36" x 36", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	878.52	27.94
33 05 63 00-0417 EA 30" x 48", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	919.04	53.22
33 05 63 00-0418 EA 6" x 8", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	76.13	11.53
33 05 63 00-0419 EA 8" x 8", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	125.90	11.53
33 05 63 00-0420 EA 12" x 12", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	138.49	11.53
33 05 63 00-0421 EA 8" x 18", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	146.83	11.53
33 05 63 00-0422 EA 10" x 15", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	128.87	11.52
33 05 63 00-0423 EA 11" x 20", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	226.67	11.52
33 05 63 00-0424 EA 24" x 36", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	630.88	17.28
33 05 63 00-0425 EA 36" x 36", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,166.88	27.94
33 05 63 00-0426 EA 30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,223.30	53.22
33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)		
Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428 EA 12" x 12" x 12" Precast Concrete Handholes With Steel Cover	1,148.82	285.65
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add		18.00
33 05 63 00-0429 EA 12" x 24" x 21" Precast Concrete Handholes With Steel Cover	1,958.39	428.48
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add		120.04
33 05 63 00-0430 EA 18" x 30" x 18" Precast Concrete Handholes With Steel Cover	2,346.77	571.29
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add		213.41
33 05 63 00-0431 EA 24" x 24" x 24" Precast Concrete Handholes With Steel Cover	2,449.53	571.29
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add		271.41

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0432 EA 24" x 24" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	2,857.54 328.31	714.12
33 05 63 00-0433 EA 30" x 36" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,027.95 356.81	714.12
33 05 63 00-0434 EA 36" x 36" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,481.17 418.22	856.94
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,988.95 572.94	999.77
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,987.87 607.54	856.94
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	4,031.46 437.34	856.94
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	869.77 15.00	285.65
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	1,032.96 15.00	321.35
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	1,287.91 15.00	357.06

33 05 81 Metallic Castings for Utility Structures (33 05)**33 05 81 00-0001 Manhole Accessories (33 05 81)****33 05 81 00-0002 Steps For Cast-In-Place Manholes (33 05 81 00-0001)**

See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 81 00-0003 EA Cast Iron Manhole Step For New Manholes	97.48	
33 05 81 00-0004 EA Galvanized Steel Manhole Step For New Manholes	74.19	
33 05 81 00-0005 EA Aluminum Manhole Step For New Manholes	124.87	

33 05 81 00-0006 Manhole Covers And Frames (33 05 81)

Note: Includes moisture-tight masonry joints and waterproof grouting.

33 05 81 00-0007 Regular Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0008 EA 18" Square, Gray Iron, Manhole Cover With Frame	3,762.42	102.97
<i>For Ductile Iron Castings, Add</i>	2,415.78	
33 05 81 00-0009 EA 18" Diameter, Gray Iron, Manhole Cover With Frame	1,986.47	102.97
<i>For Ductile Iron Castings, Add</i>	1,172.61	
33 05 81 00-0010 EA 24" Diameter, Gray Iron, Manhole Cover With Frame	2,296.06	119.74
<i>For Ductile Iron Castings, Add</i>	1,355.78	
33 05 81 00-0011 EA 24" Square, Gray Iron, Manhole Cover With Frame	3,764.38	132.90
<i>For Ductile Iron Castings, Add</i>	2,355.68	
33 05 81 00-0012 EA 26" Diameter, Gray Iron, Manhole Cover With Frame	3,102.48	143.68
<i>For Ductile Iron Castings, Add</i>	1,868.80	
33 05 81 00-0013 EA 30" Diameter, Gray Iron, Manhole Cover With Frame	3,239.07	149.67
<i>For Ductile Iron Castings, Add</i>	1,953.05	
33 05 81 00-0014 EA 24" Diameter REXUF D400, Ductile Iron Manhole Cover And Frame, County Standard	1,422.36	132.90
<i>For Ductile Iron Castings, Add</i>	716.27	

33 05 81 00-0015 Watertight Type Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0016 EA 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,149.29	85.01
<i>For Ductile Iron Castings, Add</i>	2,667.63	
33 05 81 00-0017 EA 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,189.64	85.01
<i>For Ductile Iron Castings, Add</i>	2,676.37	
33 05 81 00-0018 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,247.72	99.38
<i>For Ductile Iron Castings, Add</i>	2,694.02	
33 05 81 00-0019 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	5,099.80	111.36
<i>For Ductile Iron Castings, Add</i>	3,266.92	
33 05 81 00-0020 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	5,958.52	113.75
<i>For Ductile Iron Castings, Add</i>	3,856.66	
33 05 81 00-0021 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	6,288.67	116.15
<i>For Ductile Iron Castings, Add</i>	4,083.65	
33 05 81 00-0022 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	6,583.70	119.74
<i>For Ductile Iron Castings, Add</i>	4,285.89	

33 05 81 00-0023 Aluminum Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0024 EA 12" Square Aluminum Manhole Cover With Frame	1,588.16	33.65
33 05 81 00-0025 EA 18" Square Aluminum Manhole Cover With Frame	2,944.63	37.26
33 05 81 00-0026 EA 24" Square Aluminum Manhole Cover With Frame	4,242.07	43.27



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Metallic Castings for Utility Structures	33 05 81	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 81 00-0027	Removal And Reinstallation Of Manhole Cover And Frame (33 05 81 00-0006) Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 81 00-0028	EA Removal And Reinstallation Of Manhole Cover And Frame	480.07	
33 05 81 00-0029	Adjust Frame And Cover To Grade (Monterey County) (33 05 81 00-0006)		
33 05 81 00-0030	EA Adjust Frame And Cover To Grade (Monterey County)	782.36	
33 05 83 Non-Metallic Accessories for Utility Structures (33 05)			
33 05 83 00-0001	Manhole Accessories (33 05 83)		
33 05 83 00-0002	Steps For Cast-In-Place Manholes (33 05 83 00-0001) See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 83 00-0003	EA Polypropylene Manhole Step For New Manholes	57.13	
33 05 83 00-0004	Rainguard Inflow Protectors (33 05 83)		
33 05 83 00-0005	EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	148.75	24.53
33 05 83 00-0006	EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	173.58	24.53
33 05 83 00-0007	EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	207.50	29.43
33 05 83 00-0008	EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	223.19	29.43
33 05 83 00-0009	EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	277.76	34.34
33 05 83 00-0010	EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	297.03	34.34
33 05 84 Accessories for Utility Structures (33 05)			
See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.			
33 05 84 00-0001	Manhole Accessories (33 05 84)		
33 05 84 00-0002	Precast Concrete Manhole Tops (33 05 84 00-0001)		
33 05 84 00-0003	Precast Concrete Manhole Slab Tops (33 05 84 00-0002)		
33 05 84 00-0004	EA 3' Diameter x 8" Thick Precast Manhole Top Slab	665.64	89.81
33 05 84 00-0005	EA 4' Diameter x 8" Thick Precast Manhole Top Slab	933.67	96.99
33 05 84 00-0006	EA 5' Diameter x 8" Thick Precast Manhole Top Slab	1,266.03	104.18
33 05 84 00-0007	EA 6' Diameter x 8" Thick Precast Manhole Top Slab	1,517.21	111.36
33 05 84 00-0008	EA 7' Diameter x 8" Thick Precast Manhole Top Slab	2,314.94	119.74
33 05 84 00-0009	EA 8' Diameter x 10" Thick Precast Manhole Top Slab	3,093.61	128.72
33 05 84 00-0010	EA 10' Diameter x 12" Thick Precast Manhole Top Slab	5,278.29	137.70
33 05 84 00-0011	EA 12' Diameter x 12" Thick Precast Manhole Top Slab	7,495.11	148.18
33 05 84 00-0012	Precast Concrete Manhole Cone Tops (33 05 84 00-0002)		
33 05 84 00-0013	EA 3' Diameter x 8" Thick Precast Manhole Top Cone	1,061.85	112.25
33 05 84 00-0014	EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone	1,181.95	116.75
33 05 84 00-0015	EA 4' Diameter x 8" Thick Precast Manhole Top Cone	1,302.07	121.23
33 05 84 00-0016	EA 5' Diameter x 8" Thick Precast Manhole Top Cone	1,536.26	128.72
33 05 84 00-0017	EA 6' Diameter x 8" Thick Precast Manhole Top Cone	1,776.47	137.70
33 05 84 00-0018	EA 7' Diameter x 8" Thick Precast Manhole Top Cone	2,822.06	146.68
33 05 84 00-0019	EA 8' Diameter x 10" Thick Precast Manhole Top Cone	3,546.46	161.64
33 05 84 00-0020	Precast Concrete Manhole Reducer Slabs (33 05 84 00-0002)		
33 05 84 00-0021	EA 5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,392.32	104.18
33 05 84 00-0022	EA 6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,794.67	111.36
33 05 84 00-0023	EA 7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	2,372.11	111.36
33 05 84 00-0024	EA 8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	3,759.52	111.36
33 05 84 00-0025	EA 10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	4,838.88	111.36
33 05 84 00-0026	EA 12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	7,012.42	111.36
33 05 84 00-0027	Pipe To Manhole Connector (33 05 84 00-0001)		
33 05 84 00-0028	Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0027)		
33 05 84 00-0029	EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	98.48	
33 05 84 00-0030	EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	144.03	
33 05 84 00-0031	EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	162.43	
33 05 84 00-0032	EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	244.19	
33 05 84 00-0033	EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	340.63	
33 05 84 00-0034	EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	451.42	
33 05 84 00-0035	EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	809.51	
33 05 84 00-0036	EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,123.35	
33 05 84 00-0037	EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,767.62	
33 05 84 00-0038	EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	2,082.64	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 84 00-0039	Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout (33 05 84 00-0027) Note: Fernco CMA.		
33 05 84 00-0040	EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	122.36	
33 05 84 00-0041	EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	170.04	
33 05 84 00-0042	EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	214.90	
33 05 84 00-0043	EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	259.51	
33 05 84 00-0044	EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	301.04	
33 05 84 00-0045	Brick And Grout Pipe To Manhole Connector (33 05 84 00-0027)		
33 05 84 00-0046	EA Seal Gap Between Pipe And Structure With Brick And Grout	309.39	
33 05 84 00-0047	Inverts For Manholes (33 05 84 00-0001)		
33 05 84 00-0048	EA Single Channel Concrete Invert For Manholes	480.75	
33 05 84 00-0049	EA Double Channel Concrete Invert For Manholes	696.57	
33 05 84 00-0050	EA Triple Channel Concrete Invert For Manholes	937.02	
33 05 84 00-0051	EA Quad Channel Concrete Invert For Manholes	1,177.42	
33 05 84 00-0052	EA Single Channel Brick Invert For Manholes	724.37	
33 05 84 00-0053	EA Double Channel Brick Invert For Manholes	1,084.44	
33 05 84 00-0054	EA Triple Channel Brick Invert For Manholes	1,450.71	
33 05 84 00-0055	EA Quad Channel Brick Invert For Manholes	1,812.82	
33 05 84 00-0056	Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0057	Polyurethane Protective Coating For New Manholes (33 05 84 00-0056)		
33 05 84 00-0058	VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior	232.14	
	For 80 Mil Material, Add	34.17	
	For 100 Mil Material, Add	68.34	
	For 125 Mil Material, Add	107.91	
	For 150 Mil Material, Add	147.49	
	For 200 Mil Material, Add	218.27	
	For 2 To 5 Manholes, Deduct	-15.79	
	For 6 To 10 Manholes, Deduct	-25.77	
	For >10 Manholes, Deduct	-51.55	
33 05 84 00-0059	VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior	280.18	
	For 80 Mil Material, Add	40.58	
	For 100 Mil Material, Add	81.16	
	For 125 Mil Material, Add	128.06	
	For 150 Mil Material, Add	174.95	
	For 200 Mil Material, Add	258.52	
	For 2 To 5 Manholes, Deduct	-19.12	
	For 6 To 10 Manholes, Deduct	-31.24	
	For >10 Manholes, Deduct	-62.47	
33 05 84 00-0060	VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior	309.51	
	For 80 Mil Material, Add	45.56	
	For 100 Mil Material, Add	91.11	
	For 125 Mil Material, Add	143.88	
	For 150 Mil Material, Add	196.64	
	For 200 Mil Material, Add	291.02	
	For 2 To 5 Manholes, Deduct	-21.05	
	For 6 To 10 Manholes, Deduct	-34.36	
	For >10 Manholes, Deduct	-68.73	
33 05 84 00-0061	VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior	386.97	
	For 80 Mil Material, Add	56.97	
	For 100 Mil Material, Add	113.94	
	For 125 Mil Material, Add	179.93	
	For 150 Mil Material, Add	245.92	
	For 200 Mil Material, Add	363.95	
	For 2 To 5 Manholes, Deduct	-26.32	
	For 6 To 10 Manholes, Deduct	-42.96	
	For >10 Manholes, Deduct	-85.92	
33 05 84 00-0062	VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior	449.47	
	For 80 Mil Material, Add	67.24	
	For 100 Mil Material, Add	134.49	
	For 125 Mil Material, Add	212.55	
	For 150 Mil Material, Add	290.61	
	For 200 Mil Material, Add	430.75	
	For 2 To 5 Manholes, Deduct	-30.47	
	For 6 To 10 Manholes, Deduct	-49.69	
	For >10 Manholes, Deduct	-99.39	
33 05 84 00-0063	Polyvinyl Chloride (PVC) Liner (33 05 84 00-0056)		
	Note: For new manholes and shop applied.		
33 05 84 00-0064	VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	305.01	
33 05 84 00-0065	VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	373.88	
33 05 84 00-0066	VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	456.26	
33 05 84 00-0067	VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	572.97	
33 05 84 00-0068	VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	689.69	
33 05 84 00-0069	SF Polyvinyl Chloride (PVC) Liner At Structures	46.73	



		Utilities	33
		Common Work Results for Utilities	33 05
		Accessories for Utility Structures	33 05 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0070 Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)		
33 05 84 00-0071 18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0070)		
33 05 84 00-0072 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	101.00	
33 05 84 00-0073 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	110.42	
33 05 84 00-0074 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	119.84	
33 05 84 00-0075 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	129.26	
33 05 84 00-0076 24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0070)		
33 05 84 00-0077 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	113.40	
33 05 84 00-0078 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	124.11	
33 05 84 00-0079 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	134.82	
33 05 84 00-0080 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	145.53	
33 05 84 00-0081 30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0070)		
33 05 84 00-0082 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	125.56	
33 05 84 00-0083 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	137.50	
33 05 84 00-0084 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	149.44	
33 05 84 00-0085 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	161.38	
33 05 84 00-0086 Bentonite Collar (33 05 84 00-0001)		
33 05 84 00-0087 Bentonite Collar At Manhole Connections (33 05 84 00-0086)		
33 05 84 00-0088 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	169.24	
33 05 84 00-0089 EA >12" To 21", Bentonite Collar At Manhole Connection	268.13	
33 05 84 00-0090 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	425.17	
33 05 84 00-0091 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	994.16	
33 05 84 00-0092 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,549.60	
33 05 84 00-0093 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,813.68	
33 05 84 00-0094 Expanded Polypropylene (EPP) Finish Ring (33 05 84 00-0001)		
33 05 84 00-0095 EA 34" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	114.93	
33 05 84 00-0096 EA 34" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	117.35	
33 05 84 00-0097 EA 34" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	124.45	
33 05 84 00-0098 EA 34" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	131.55	
33 05 84 00-0099 EA 34" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	138.65	
33 05 84 00-0100 EA 34" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	145.74	
33 05 84 00-0101 EA 34" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	158.45	
33 05 84 00-0102 EA 34" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	128.21	
33 05 84 00-0103 EA 36" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	121.14	
33 05 84 00-0104 EA 36" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	123.73	
33 05 84 00-0105 EA 36" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	131.32	
33 05 84 00-0106 EA 36" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	138.91	
33 05 84 00-0107 EA 36" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	146.50	
33 05 84 00-0108 EA 36" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	154.09	
33 05 84 00-0109 EA 36" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	167.68	
33 05 84 00-0110 EA 36" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	135.34	
33 05 84 00-0111 EA 40" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	134.92	
33 05 84 00-0112 EA 40" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	138.09	
33 05 84 00-0113 EA 40" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	147.56	
33 05 84 00-0114 EA 40" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	157.05	
33 05 84 00-0115 EA 40" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	165.32	
33 05 84 00-0116 EA 40" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	173.58	
33 05 84 00-0117 EA 40" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	187.54	
33 05 84 00-0118 EA 40" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	152.28	
33 05 84 00-0119 EA 46" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	150.10	
33 05 84 00-0120 EA 46" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	153.90	
33 05 84 00-0121 EA 46" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	165.51	
33 05 84 00-0122 EA 46" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	177.11	
33 05 84 00-0123 EA 46" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	186.14	
33 05 84 00-0124 EA 46" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	195.17	
33 05 84 00-0125 EA 46" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	209.57	
33 05 84 00-0126 EA 46" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	170.99	
33 05 84 00-0127 Expanded Polypropylene (EPP) Grade Ring (33 05 84 00-0001)		
33 05 84 00-0128 EA 34" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	145.74	
33 05 84 00-0129 EA 34" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	201.36	
33 05 84 00-0130 EA 34" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	252.22	
33 05 84 00-0131 EA 36" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	154.09	
33 05 84 00-0132 EA 36" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	213.56	
33 05 84 00-0133 EA 36" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	267.97	
33 05 84 00-0134 EA 40" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	173.58	
33 05 84 00-0135 EA 40" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	239.03	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0136 EA 40" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring.....	299.38	
33 05 84 00-0137 EA 46" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring.....	195.17	
33 05 84 00-0138 EA 46" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring.....	267.37	
33 05 84 00-0139 EA 46" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring.....	334.42	
33 05 84 00-0140 Waste Water Collection System Taps (33 05 84) Note: For tapping existing structures only. Includes grout.		
33 05 84 00-0141 Brick Manhole Taps (33 05 84 00-0140)		
33 05 84 00-0142 EA 4" Tap In 6" Brick Manhole	624.01	
33 05 84 00-0143 EA 6" Tap In 6" Brick Manhole	697.39	
33 05 84 00-0144 EA 8" Tap In 6" Brick Manhole	769.46	
33 05 84 00-0145 EA 10" Tap In 6" Brick Manhole	841.38	
33 05 84 00-0146 EA 12" Tap In 6" Brick Manhole	927.90	
33 05 84 00-0147 EA 15" Tap In 6" Brick Manhole	999.67	
33 05 84 00-0148 Precast Concrete Manhole Tap (33 05 84 00-0140)		
33 05 84 00-0149 EA 4" Tap In Existing Precast Concrete Manhole.....	915.56	
33 05 84 00-0150 EA 6" Tap In Existing Precast Concrete Manhole.....	1,025.62	
33 05 84 00-0151 EA 8" Tap In Existing Precast Concrete Manhole.....	1,146.91	
33 05 84 00-0152 EA 10" Tap In Existing Precast Concrete Manhole.....	1,254.80	
33 05 84 00-0153 EA 12" Tap In Existing Precast Concrete Manhole.....	1,362.47	
33 05 84 00-0154 EA 15" Tap In Existing Precast Concrete Manhole.....	1,472.75	
33 05 84 00-0155 EA 18" Tap In Existing Precast Concrete Manhole.....	1,695.24	
33 05 84 00-0156 EA 24" Tap In Existing Precast Concrete Manhole.....	2,179.25	
33 05 97 Identification and Signage for Utilities (33 05)		
33 05 97 16 Markers for Utility Identification (33 05 97)		
33 05 97 16-0001 Reflective Sheeting Delineators (33 05 97 16)		
33 05 97 16-0002 EA Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square.....	52.29	
33 05 97 16-0003 EA Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square.....	55.93	
33 05 97 16-0004 EA Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square.....	63.20	
33 05 97 16-0005 EA Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square.....	66.84	
33 05 97 16-0006 EA Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square.....	70.48	
33 05 97 16-0007 EA Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square.....	60.48	
33 05 97 16-0008 EA Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	53.20	
33 05 97 16-0009 EA Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	56.84	
33 05 97 16-0010 EA Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	56.84	
33 05 97 16-0011 EA Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	60.48	
33 05 97 16-0012 EA Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	64.11	
33 05 97 16-0013 EA Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	67.75	
33 05 97 16-0014 EA Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	100.50	
33 05 97 16-0015 EA Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	66.84	
33 05 97 16-0016 EA Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	105.05	
33 05 97 16-0017 EA Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	100.50	
33 05 97 16-0018 EA Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	104.14	
33 05 97 16-0019 EA Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	105.05	
33 05 97 16-0020 EA Relocate Delineator	66.14	
33 05 97 16-0021 Reference Markers (33 05 97 16)		
33 05 97 16-0022 EA Reference Marker, 4' Mounting Height	113.97	
33 05 97 16-0023 EA Reference Marker, 7' Mounting Height	144.10	
33 05 97 16-0024 EA Reference Marker, Band Or Bracket Mounted	135.31	
33 05 97 16-0025 EA Reference Marker, Furnish Panel Only.....	129.30	
33 05 97 16-0026 EA Relocate Reference Marker	66.14	
33 05 97 16-0027 Object Markers (33 05 97 16)		
33 05 97 16-0028 EA Object Marker, Type L-1	101.04	
33 05 97 16-0029 EA Object Marker, Type L-2	93.09	
33 05 97 16-0030 EA Object Marker, Type K-1.....	107.39	
33 05 97 16-0031 EA Object Marker, Type K-2.....	99.45	
33 05 97 16-0032 EA Object Marker, Type Q.....	67.66	

33 10 Water Utilities (33)**33 11 Groundwater Sources** (33 10)



Utilities		33	CS
Water Utilities		33 10	
Groundwater Sources		33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 Potable Water Supply Wells (33 11)		
33 11 13 00-0001 Drill And Test Water Well (33 11 13)		
33 11 13 00-0002 Drill Hole (33 11 13 00-0001) Note: Excludes loading and hauling of spoils.		
33 11 13 00-0003 Mobilization And Demobilization (33 11 13 00-0002)		
33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	1,195.07	
33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization.....	1,456.91	
33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization.....	2,185.37	
 33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002) Note: Excludes well casing, gravel or materials.		
33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	28.23	
For >100 To 250, Add	0.71	
For >250 To 400, Add	1.41	
For >400 To 600, Add	2.12	
For >600 To 750, Add	2.82	
For >750, Add	3.53	
33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	33.51	
For >100 To 250, Add	0.84	
For >250 To 400, Add	1.68	
For >400 To 600, Add	2.51	
For >600 To 750, Add	3.35	
For >750, Add	4.19	
33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	44.80	
For >100 To 250, Add	1.12	
For >250 To 400, Add	2.24	
For >400 To 600, Add	3.36	
For >600 To 750, Add	4.48	
For >750, Add	5.60	
33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	70.11	
For >100 To 250, Add	1.75	
For >250 To 400, Add	3.51	
For >400 To 600, Add	5.26	
For >600 To 750, Add	7.01	
For >750, Add	8.76	
33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	100.89	
For >100 To 250, Add	2.52	
For >250 To 400, Add	5.04	
For >400 To 600, Add	7.57	
For >600 To 750, Add	10.09	
For >750, Add	12.61	
33 11 13 00-0013 LF 16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	131.85	
For >100 To 250, Add	3.30	
For >250 To 400, Add	6.59	
For >400 To 600, Add	9.89	
For >600 To 750, Add	13.19	
For >750, Add	16.48	
33 11 13 00-0014 LF 18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	156.62	
For >100 To 250, Add	3.92	
For >250 To 400, Add	7.83	
For >400 To 600, Add	11.75	
For >600 To 750, Add	15.66	
For >750, Add	19.58	
33 11 13 00-0015 LF 20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	182.12	
For >100 To 250, Add	4.55	
For >250 To 400, Add	9.11	
For >400 To 600, Add	13.66	
For >600 To 750, Add	18.21	
For >750, Add	22.77	
33 11 13 00-0016 LF 22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	213.98	
For >100 To 250, Add	5.35	
For >250 To 400, Add	10.70	
For >400 To 600, Add	16.05	
For >600 To 750, Add	21.40	
For >750, Add	26.75	
33 11 13 00-0017 LF 24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	252.23	
For >100 To 250, Add	6.31	
For >250 To 400, Add	12.61	
For >400 To 600, Add	18.92	
For >600 To 750, Add	25.22	
For >750, Add	31.53	
33 11 13 00-0018 LF 26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	272.62	
For >100 To 250, Add	6.82	
For >250 To 400, Add	13.63	
For >400 To 600, Add	20.45	
For >600 To 750, Add	27.26	
For >750, Add	34.08	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0019 LF 28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	299.94	
For>100 To 250, Add	7.50	
For>250 To 400, Add	15.00	
For>400 To 600, Add	22.50	
For>600 To 750, Add	29.99	
For>750, Add	37.49	
33 11 13 00-0020 LF 30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	328.54	
For>100 To 250, Add	8.21	
For>250 To 400, Add	16.43	
For>400 To 600, Add	24.64	
For>600 To 750, Add	32.85	
For>750, Add	41.07	
33 11 13 00-0021 LF 36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	408.67	
For>100 To 250, Add	10.22	
For>250 To 400, Add	20.43	
For>400 To 600, Add	30.65	
For>600 To 750, Add	40.87	
For>750, Add	51.08	
33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)	57.55	
33 11 13 00-0023 LF 6" Water Well Hole Drilled In Sedimentary Rock	57.55	
For>100 To 250, Add	1.44	
For>250 To 400, Add	2.88	
For>400 To 600, Add	4.32	
For>600 To 750, Add	5.76	
For>750, Add	7.19	
33 11 13 00-0024 LF 8" Water Well Hole Drilled In Sedimentary Rock	67.01	
For>100 To 250, Add	1.68	
For>250 To 400, Add	3.35	
For>400 To 600, Add	5.03	
For>600 To 750, Add	6.70	
For>750, Add	8.38	
33 11 13 00-0025 LF 10" Water Well Hole Drilled In Sedimentary Rock	107.30	
For>100 To 250, Add	2.68	
For>250 To 400, Add	5.37	
For>400 To 600, Add	8.05	
For>600 To 750, Add	10.73	
For>750, Add	13.41	
33 11 13 00-0026 LF 12" Water Well Hole Drilled In Sedimentary Rock	140.30	
For>100 To 250, Add	3.51	
For>250 To 400, Add	7.02	
For>400 To 600, Add	10.52	
For>600 To 750, Add	14.03	
For>750, Add	17.54	
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock	201.92	
For>100 To 250, Add	5.05	
For>250 To 400, Add	10.10	
For>400 To 600, Add	15.14	
For>600 To 750, Add	20.19	
For>750, Add	25.24	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock	263.55	
For>100 To 250, Add	6.59	
For>250 To 400, Add	13.18	
For>400 To 600, Add	19.77	
For>600 To 750, Add	26.36	
For>750, Add	32.94	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock	313.38	
For>100 To 250, Add	7.83	
For>250 To 400, Add	15.67	
For>400 To 600, Add	23.50	
For>600 To 750, Add	31.34	
For>750, Add	39.17	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock	363.65	
For>100 To 250, Add	9.09	
For>250 To 400, Add	18.18	
For>400 To 600, Add	27.27	
For>600 To 750, Add	36.37	
For>750, Add	45.46	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock	428.33	
For>100 To 250, Add	10.71	
For>250 To 400, Add	21.42	
For>400 To 600, Add	32.12	
For>600 To 750, Add	42.83	
For>750, Add	53.54	
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock	494.76	
For>100 To 250, Add	12.37	
For>250 To 400, Add	24.74	
For>400 To 600, Add	37.11	
For>600 To 750, Add	49.48	
For>750, Add	61.85	



Utilities		33	CS
Water Utilities		33 10	
Groundwater Sources		33 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0033	LF		26" Water Well Hole Drilled In Sedimentary Rock	545.25	
			For >100 To 250, Add	13.63	
			For >250 To 400, Add	27.26	
			For >400 To 600, Add	40.89	
			For >600 To 750, Add	54.53	
			For >750, Add	68.16	
33 11 13 00-0034	LF		28" Water Well Hole Drilled In Sedimentary Rock	599.88	
			For >100 To 250, Add	15.00	
			For >250 To 400, Add	29.99	
			For >400 To 600, Add	44.99	
			For >600 To 750, Add	59.99	
			For >750, Add	74.99	
33 11 13 00-0035	LF		30" Water Well Hole Drilled In Sedimentary Rock	657.06	
			For >100 To 250, Add	16.43	
			For >250 To 400, Add	32.85	
			For >400 To 600, Add	49.28	
			For >600 To 750, Add	65.71	
			For >750, Add	82.13	
33 11 13 00-0036	LF		36" Water Well Hole Drilled In Sedimentary Rock	817.33	
			For >100 To 250, Add	20.43	
			For >250 To 400, Add	40.87	
			For >400 To 600, Add	61.30	
			For >600 To 750, Add	81.73	
			For >750, Add	102.17	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)					
33 11 13 00-0038	LF		6" Water Well Hole Drilled In Crystalline Rock.....	118.37	
			For >100 To 250, Add	2.96	
			For >250 To 400, Add	5.92	
			For >400 To 600, Add	8.88	
			For >600 To 750, Add	11.84	
			For >750, Add	14.80	
33 11 13 00-0039	LF		8" Water Well Hole Drilled In Crystalline Rock.....	136.59	
			For >100 To 250, Add	3.41	
			For >250 To 400, Add	6.83	
			For >400 To 600, Add	10.24	
			For >600 To 750, Add	13.66	
			For >750, Add	17.07	
33 11 13 00-0040	LF		10" Water Well Hole Drilled In Crystalline Rock.....	156.62	
			For >100 To 250, Add	3.92	
			For >250 To 400, Add	7.83	
			For >400 To 600, Add	11.75	
			For >600 To 750, Add	15.66	
			For >750, Add	19.58	
33 11 13 00-0041	LF		12" Water Well Hole Drilled In Crystalline Rock.....	198.50	
			For >100 To 250, Add	4.96	
			For >250 To 400, Add	9.93	
			For >400 To 600, Add	14.89	
			For >600 To 750, Add	19.85	
			For >750, Add	24.81	
33 11 13 00-0042	LF		14" Water Well Hole Drilled In Crystalline Rock.....	256.78	
			For >100 To 250, Add	6.42	
			For >250 To 400, Add	12.84	
			For >400 To 600, Add	19.26	
			For >600 To 750, Add	25.68	
			For >750, Add	32.10	
33 11 13 00-0043	LF		16" Water Well Hole Drilled In Crystalline Rock.....	373.33	
			For >100 To 250, Add	9.33	
			For >250 To 400, Add	18.67	
			For >400 To 600, Add	28.00	
			For >600 To 750, Add	37.33	
			For >750, Add	46.67	
33 11 13 00-0044	LF		18" Water Well Hole Drilled In Crystalline Rock.....	444.35	
			For >100 To 250, Add	11.11	
			For >250 To 400, Add	22.22	
			For >400 To 600, Add	33.33	
			For >600 To 750, Add	44.44	
			For >750, Add	55.54	
33 11 13 00-0045	LF		20" Water Well Hole Drilled In Crystalline Rock.....	515.38	
			For >100 To 250, Add	12.88	
			For >250 To 400, Add	25.77	
			For >400 To 600, Add	38.65	
			For >600 To 750, Add	51.54	
			For >750, Add	64.42	
33 11 13 00-0046	LF		22" Water Well Hole Drilled In Crystalline Rock.....	606.44	
			For >100 To 250, Add	15.16	
			For >250 To 400, Add	30.32	
			For >400 To 600, Add	45.48	
			For >600 To 750, Add	60.64	
			For >750, Add	75.81	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0047 LF 24" Water Well Hole Drilled In Crystalline Rock.....	701.14	
For>100 To 250, Add	17.53	
For>250 To 400, Add	35.06	
For>400 To 600, Add	52.59	
For>600 To 750, Add	70.11	
For>750, Add	87.64	
33 11 13 00-0048 Furnish And Install Casing (33 11 13 00-0001)		
Note: Excludes drilling of hole.		
33 11 13 00-0049 Steel Well Casing (33 11 13 00-0048)		
33 11 13 00-0050 LF 6" Diameter, Steel Well Casing, Flush.....	47.80	
For>100 To 250, Deduct	-1.44	
For>250 To 400, Deduct	-2.63	
For>400 To 600, Deduct	-3.95	
For>600 To 750, Deduct	-5.26	
For>750, Deduct	-6.89	
33 11 13 00-0051 LF 8" Diameter, Steel Well Casing, Flush.....	59.42	
For>100 To 250, Deduct	-1.79	
For>250 To 400, Deduct	-3.27	
For>400 To 600, Deduct	-4.91	
For>600 To 750, Deduct	-6.54	
For>750, Deduct	-8.57	
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush.....	88.00	
For>100 To 250, Deduct	-2.56	
For>250 To 400, Deduct	-4.76	
For>400 To 600, Deduct	-7.14	
For>600 To 750, Deduct	-9.52	
For>750, Deduct	-12.37	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush.....	147.68	
For>100 To 250, Deduct	-4.12	
For>250 To 400, Deduct	-7.82	
For>400 To 600, Deduct	-11.72	
For>600 To 750, Deduct	-15.63	
For>750, Deduct	-20.10	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush.....	165.61	
For>100 To 250, Deduct	-4.74	
For>250 To 400, Deduct	-8.88	
For>400 To 600, Deduct	-13.32	
For>600 To 750, Deduct	-17.76	
For>750, Deduct	-22.98	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush.....	194.43	
For>100 To 250, Deduct	-5.60	
For>250 To 400, Deduct	-10.47	
For>400 To 600, Deduct	-15.70	
For>600 To 750, Deduct	-20.93	
For>750, Deduct	-27.13	
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush.....	221.82	
For>100 To 250, Deduct	-6.48	
For>250 To 400, Deduct	-12.03	
For>400 To 600, Deduct	-18.04	
For>600 To 750, Deduct	-24.05	
For>750, Deduct	-31.28	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush.....	252.87	
For>100 To 250, Deduct	-7.47	
For>250 To 400, Deduct	-13.80	
For>400 To 600, Deduct	-20.69	
For>600 To 750, Deduct	-27.59	
For>750, Deduct	-35.99	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush.....	295.56	
For>100 To 250, Deduct	-8.69	
For>250 To 400, Deduct	-16.07	
For>400 To 600, Deduct	-24.11	
For>600 To 750, Deduct	-32.15	
For>750, Deduct	-41.87	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install.....	1.55	
For>100 To 250, Deduct	-0.06	
For>250 To 400, Deduct	-0.09	
For>400 To 600, Deduct	-0.14	
For>600 To 750, Deduct	-0.19	
For>750, Deduct	-0.26	
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded (33 11 13 00-0048)		
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush.....	73.87	
For>100 To 250, Deduct	-2.09	
For>250 To 400, Deduct	-3.93	
For>400 To 600, Deduct	-5.90	
For>600 To 750, Deduct	-7.87	
For>750, Deduct	-10.15	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 11 13 00-0062	LF 8" Diameter, Stainless Steel Well Casing, Flush	110.41		
	For >100 To 250, Deduct	-3.06		
	For >250 To 400, Deduct	-5.82		
	For >400 To 600, Deduct	-8.73		
	For >600 To 750, Deduct	-11.64		
	For >750, Deduct	-14.94		
33 11 13 00-0063	LF 10" Diameter, Stainless Steel Well Casing, Flush	153.95		
	For >100 To 250, Deduct	-4.23		
	For >250 To 400, Deduct	-8.08		
	For >400 To 600, Deduct	-12.12		
	For >600 To 750, Deduct	-16.16		
	For >750, Deduct	-20.70		
33 11 13 00-0064	LF 12" Diameter, Stainless Steel Well Casing, Flush	179.12		
	For >100 To 250, Deduct	-4.93		
	For >250 To 400, Deduct	-9.41		
	For >400 To 600, Deduct	-14.12		
	For >600 To 750, Deduct	-18.82		
	For >750, Deduct	-24.12		
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring (33 11 13 00-0048)				
33 11 13 00-0066	LF 10" Diameter, Stainless Steel Well Casing, Welded	165.47		
	For >100 To 250, Deduct	-4.81		
	For >250 To 400, Deduct	-8.95		
	For >400 To 600, Deduct	-13.42		
	For >600 To 750, Deduct	-17.89		
	For >750, Deduct	-23.24		
33 11 13 00-0067	LF 12" Diameter, Stainless Steel Well Casing, Welded	191.60		
	For >100 To 250, Deduct	-5.56		
	For >250 To 400, Deduct	-10.35		
	For >400 To 600, Deduct	-15.52		
	For >600 To 750, Deduct	-20.70		
	For >750, Deduct	-26.87		
33 11 13 00-0068	LF 14" Diameter, Stainless Steel Well Casing, Welded	229.74		
	For >100 To 250, Deduct	-6.61		
	For >250 To 400, Deduct	-12.35		
	For >400 To 600, Deduct	-18.53		
	For >600 To 750, Deduct	-24.70		
	For >750, Deduct	-32.00		
33 11 13 00-0069	LF 16" Diameter, Stainless Steel Well Casing, Welded	263.01		
	For >100 To 250, Deduct	-7.56		
	For >250 To 400, Deduct	-14.13		
	For >400 To 600, Deduct	-21.20		
	For >600 To 750, Deduct	-28.27		
	For >750, Deduct	-36.62		
33 11 13 00-0070	LF 18" Diameter, Stainless Steel Well Casing, Welded	290.79		
	For >100 To 250, Deduct	-8.40		
	For >250 To 400, Deduct	-15.67		
	For >400 To 600, Deduct	-23.50		
	For >600 To 750, Deduct	-31.34		
	For >750, Deduct	-40.64		
33 11 13 00-0071	LF 20" Diameter, Stainless Steel Well Casing, Welded	379.87		
	For >100 To 250, Deduct	-10.84		
	For >250 To 400, Deduct	-20.34		
	For >400 To 600, Deduct	-30.51		
	For >600 To 750, Deduct	-40.68		
	For >750, Deduct	-52.59		
33 11 13 00-0072	LF 24" Diameter, Stainless Steel Well Casing, Welded	499.70		
	For >100 To 250, Deduct	-14.17		
	For >250 To 400, Deduct	-26.67		
	For >400 To 600, Deduct	-40.00		
	For >600 To 750, Deduct	-53.33		
	For >750, Deduct	-68.85		
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 (33 11 13 00-0048)				
33 11 13 00-0074	LF 6" Polyvinyl Chloride (PVC) Well Casing	48.62		
	For >100 To 250, Deduct	-1.41		
	For >250 To 400, Deduct	-2.62		
	For >400 To 600, Deduct	-3.93		
	For >600 To 750, Deduct	-5.25		
	For >750, Deduct	-6.81		
33 11 13 00-0075	LF 8" Polyvinyl Chloride (PVC) Well Casing	77.20		
	For >100 To 250, Deduct	-2.23		
	For >250 To 400, Deduct	-4.16		
	For >400 To 600, Deduct	-6.24		
	For >600 To 750, Deduct	-8.32		
	For >750, Deduct	-10.79		
33 11 13 00-0076	LF 10" Polyvinyl Chloride (PVC) Well Casing	116.69		
	For >100 To 250, Deduct	-3.37		
	For >250 To 400, Deduct	-6.29		
	For >400 To 600, Deduct	-9.44		
	For >600 To 750, Deduct	-12.58		
	For >750, Deduct	-16.32		

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing	137.70	
For>100 To 250, Deduct	-3.99	
For>250 To 400, Deduct	-7.44	
For>400 To 600, Deduct	-11.16	
For>600 To 750, Deduct	-14.87	
For>750, Deduct	-19.31	
33 11 13 00-0078 Furnish And Install Well Screen Assembly (33 11 13 00-0001)		
33 11 13 00-0079 Stainless Steel Well Screen (33 11 13 00-0078)		
33 11 13 00-0080 LF 2" Stainless Steel Well Screen.....	24.40	1.92
For>100 To 250, Deduct	-0.86	
For>250 To 400, Deduct	-1.47	
For>400 To 600, Deduct	-2.20	
For>600 To 750, Deduct	-2.93	
For>750, Deduct	-3.99	
33 11 13 00-0081 LF 3" Stainless Steel Well Screen.....	37.71	1.92
For>100 To 250, Deduct	-1.21	
For>250 To 400, Deduct	-2.15	
For>400 To 600, Deduct	-3.23	
For>600 To 750, Deduct	-4.30	
For>750, Deduct	-5.72	
33 11 13 00-0082 LF 4" Stainless Steel Well Screen.....	47.38	2.89
For>100 To 250, Deduct	-1.52	
For>250 To 400, Deduct	-2.71	
For>400 To 600, Deduct	-4.06	
For>600 To 750, Deduct	-5.41	
For>750, Deduct	-7.20	
33 11 13 00-0083 LF 5" Stainless Steel Well Screen.....	59.71	2.89
For>100 To 250, Deduct	-1.89	
For>250 To 400, Deduct	-3.39	
For>400 To 600, Deduct	-5.08	
For>600 To 750, Deduct	-6.77	
For>750, Deduct	-8.98	
33 11 13 00-0084 LF 6" Stainless Steel Well Screen.....	72.04	3.84
For>100 To 250, Deduct	-2.33	
For>250 To 400, Deduct	-4.14	
For>400 To 600, Deduct	-6.20	
For>600 To 750, Deduct	-8.27	
For>750, Deduct	-11.03	
33 11 13 00-0085 LF 8" Stainless Steel Well Screen.....	93.92	4.80
For>100 To 250, Deduct	-3.03	
For>250 To 400, Deduct	-5.38	
For>400 To 600, Deduct	-8.07	
For>600 To 750, Deduct	-10.76	
For>750, Deduct	-14.33	
33 11 13 00-0086 LF 10" Stainless Steel Well Screen.....	119.61	7.68
For>100 To 250, Deduct	-3.91	
For>250 To 400, Deduct	-6.90	
For>400 To 600, Deduct	-10.35	
For>600 To 750, Deduct	-13.80	
For>750, Deduct	-18.45	
33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....	140.30	9.60
For>100 To 250, Deduct	-4.58	
For>250 To 400, Deduct	-8.09	
For>400 To 600, Deduct	-12.14	
For>600 To 750, Deduct	-16.18	
For>750, Deduct	-21.62	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....	154.48	10.56
For>100 To 250, Deduct	-5.10	
For>250 To 400, Deduct	-8.96	
For>400 To 600, Deduct	-13.44	
For>600 To 750, Deduct	-17.92	
For>750, Deduct	-24.01	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....	167.64	12.48
For>100 To 250, Deduct	-5.58	
For>250 To 400, Deduct	-9.77	
For>400 To 600, Deduct	-14.66	
For>600 To 750, Deduct	-19.55	
For>750, Deduct	-26.24	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....	201.56	14.40
For>100 To 250, Deduct	-6.75	
For>250 To 400, Deduct	-11.79	
For>400 To 600, Deduct	-17.69	
For>600 To 750, Deduct	-23.59	
For>750, Deduct	-31.71	
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	254.15	18.24
For>100 To 250, Deduct	-8.51	
For>250 To 400, Deduct	-14.86	
For>400 To 600, Deduct	-22.29	
For>600 To 750, Deduct	-29.72	
For>750, Deduct	-39.95	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0092 LF 24" Stainless Steel Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct	329.93 -11.07 -19.32 -28.98 -38.64 -51.97	24.00
33 11 13 00-0093 LF 26" Stainless Steel Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct	379.99 -12.70 -22.20 -33.30 -44.40 -59.66	27.84
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 (33 11 13 00-0078)		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	15.79 -0.59 -0.98 -1.47 -1.96 -2.70 3.26	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	17.93 -0.65 -1.10 -1.65 -2.20 -3.02 3.91	
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	25.99 -1.01 -1.66 -2.50 -3.33 -4.63 4.56	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	36.92 -1.32 -2.24 -3.36 -4.48 -6.11 8.47	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	46.48 -1.66 -2.82 -4.23 -5.64 -7.70 10.62	
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	57.92 -2.04 -3.49 -5.23 -6.98 -9.49 13.68	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	65.01 -2.42 -4.04 -6.06 -8.08 -11.13 13.36	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	92.58 -3.33 -5.64 -8.46 -11.28 -15.42 20.85	
33 11 13 00-0103 Furnish And Install Gravel Pack Material (33 11 13 00-0001) Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104 Artificial Gravel Pack (33 11 13 00-0103) Note: Excludes casing.		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct	20.13 -0.78 -1.28 -1.92 -2.57 -3.57	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0106	LF	Artificial Gravel Pack, 8" Casing, 2" Screen.....	29.72	
		For >100 To 250, Deduct	-1.18	
		For >250 To 400, Deduct	-1.92	
		For >400 To 600, Deduct	-2.88	
		For >600 To 750, Deduct	-3.84	
		For >750, Deduct	-5.36	
33 11 13 00-0107	LF	Artificial Gravel Pack, 10" Casing, 2" Screen.....	41.43	
		For >100 To 250, Deduct	-1.68	
		For >250 To 400, Deduct	-2.72	
		For >400 To 600, Deduct	-4.07	
		For >600 To 750, Deduct	-5.43	
		For >750, Deduct	-7.63	
33 11 13 00-0108	LF	Artificial Gravel Pack, 12" Casing, 2" Screen.....	53.10	
		For >100 To 250, Deduct	-2.13	
		For >250 To 400, Deduct	-3.46	
		For >400 To 600, Deduct	-5.18	
		For >600 To 750, Deduct	-6.91	
		For >750, Deduct	-9.68	
33 11 13 00-0109	LF	Artificial Gravel Pack, 14" Casing, 2" Screen.....	65.46	
		For >100 To 250, Deduct	-2.59	
		For >250 To 400, Deduct	-4.23	
		For >400 To 600, Deduct	-6.34	
		For >600 To 750, Deduct	-8.46	
		For >750, Deduct	-11.82	
33 11 13 00-0110	LF	Artificial Gravel Pack, 16" Casing, 2" Screen.....	84.73	
		For >100 To 250, Deduct	-3.30	
		For >250 To 400, Deduct	-5.42	
		For >400 To 600, Deduct	-8.12	
		For >600 To 750, Deduct	-10.83	
		For >750, Deduct	-15.08	
33 11 13 00-0111	LF	Artificial Gravel Pack, 18" Casing, 2" Screen.....	97.16	
		For >100 To 250, Deduct	-3.76	
		For >250 To 400, Deduct	-6.19	
		For >400 To 600, Deduct	-9.29	
		For >600 To 750, Deduct	-12.38	
		For >750, Deduct	-17.22	
33 11 13 00-0112	LF	Artificial Gravel Pack, 20" Casing, 2" Screen.....	115.42	
		For >100 To 250, Deduct	-4.51	
		For >250 To 400, Deduct	-7.40	
		For >400 To 600, Deduct	-11.10	
		For >600 To 750, Deduct	-14.80	
		For >750, Deduct	-20.61	
33 11 13 00-0113	LF	Artificial Gravel Pack, 24" Casing, 2" Screen.....	130.58	
		For >100 To 250, Deduct	-5.13	
		For >250 To 400, Deduct	-8.40	
		For >400 To 600, Deduct	-12.60	
		For >600 To 750, Deduct	-16.80	
		For >750, Deduct	-23.42	
33 11 13 00-0114	LF	Artificial Gravel Pack, 26" Casing, 2" Screen.....	140.66	
		For >100 To 250, Deduct	-5.47	
		For >250 To 400, Deduct	-8.99	
		For >400 To 600, Deduct	-13.48	
		For >600 To 750, Deduct	-17.97	
		For >750, Deduct	-25.00	
33 11 13 00-0115	LF	Artificial Gravel Pack, 30" Casing, 2" Screen.....	167.76	
		For >100 To 250, Deduct	-6.60	
		For >250 To 400, Deduct	-10.79	
		For >400 To 600, Deduct	-16.18	
		For >600 To 750, Deduct	-21.58	
		For >750, Deduct	-30.10	
33 11 13 00-0116	LF	Artificial Gravel Pack, 36" Casing, 2" Screen.....	194.14	
		For >100 To 250, Deduct	-7.78	
		For >250 To 400, Deduct	-12.64	
		For >400 To 600, Deduct	-18.95	
		For >600 To 750, Deduct	-25.27	
		For >750, Deduct	-35.40	
33 11 13 00-0117		Develop Well (33 11 13 00-0001) Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118	HR	Develop Well.....	482.69	
33 11 13 00-0119		Pump Test (33 11 13 00-0001) Note: To determine water level and GPM flow rate.		
33 11 13 00-0120	HR	Pump Test Well	428.62	
33 11 13 00-0121		Test Well (33 11 13 00-0001)		
33 11 13 00-0122	VLF	2-1/2" Diameter Test Well	117.54	
33 11 13 00-0123		Surface Seal, Concrete Filled (33 11 13)		
33 11 13 00-0124	SF	Surface Seal Well, Concrete Filled	37.47	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 11 13 00-0125 Other Water Well (33 11 13)					
33 11 13 00-0126	SF	Patch Hole In Well Casing	103.61		
33 11 13 00-0127	SF	1/2" Pressure Grout Well	2.60		
33 11 13 00-0128	SF	1" Pressure Grout Well	4.21		
33 11 13 00-0129	CF	Sediment Removal In Well Casing For Existing Well.....	6.00		
33 11 13 00-0130 Sterilization Of Well (33 11 13)					
33 11 13 00-0131	EA	Well Sterilization, Chlorine	1,732.24		
33 11 13 00-0132 Submersible Well Pumps (33 11 13)					
Note: Includes pump end, motor and control box.					
33 11 13 00-0133 4" Submersible Well Pumps (33 11 13 00-0132)					
33 11 13 00-0134 Powder Coated Case And Cast Iron Ends (33 11 13 00-0133)					
33 11 13 00-0135	EA	1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,531.47	552.48	
33 11 13 00-0136	EA	3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,743.31	612.36	
33 11 13 00-0137	EA	1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,935.08	680.39	
33 11 13 00-0138 Stainless Steel Case And Ends (33 11 13 00-0133)					
33 11 13 00-0139	EA	1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,704.35	544.31	
33 11 13 00-0140	EA	3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,941.08	612.36	
33 11 13 00-0141	EA	1 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,174.27	680.39	
33 11 13 00-0142	EA	1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,480.85	748.43	
33 11 13 00-0143	EA	2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,798.09	816.47	
33 11 13 00-0144	EA	3 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,425.48	952.55	
33 11 13 00-0145	EA	5 HP Submersible Well Pump, 4" Diameter Stainless Steel	4,274.29	1,088.62	
33 11 13 00-0146 6" Submersible Well Pumps (33 11 13 00-0132)					
33 11 13 00-0147	EA	5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,251.42	1,360.79	
33 11 13 00-0148	EA	7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,879.99	1,496.86	
33 11 13 00-0149	EA	10 HP Submersible Well Pump, 6" Diameter Stainless Steel	5,531.07	1,632.94	
33 11 13 00-0150	EA	15 HP Submersible Well Pump, 6" Diameter Stainless Steel	6,652.22	1,905.10	
33 14 Water Utility Transmission and Distribution (33 10)					
33 14 11 Water Utility Transmission Piping (33 14)					
See CSI section 33 14 13 00-0000 for water utility transmission piping.					
33 14 13 Public Water Utility Distribution Piping (33 14)					
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.					
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping (33 14 13)					
33 14 13 13-0001 Ductile Iron Piping (33 14 13 13)					
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)					
Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0484 for bolts and gaskets.					
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)					
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.					
33 14 13 13-0004	LF	3", Class 51, Mechanical Joint Ductile Iron Pipe.....	99.51	14.66	
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	54.14		
		For Cement Mortar Lining (CML), Add	7.73		
		Note: ANSI/AWWA C104/A21.4			
		For 40 Mil Ceramic Epoxy Lining (P401), Add	41.76		
		For Fusion Bonded Epoxy Lining (206N), Add	13.92		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.80		
		Note: ANSI/AWWA C151/A21.51			
		For >1,000, Deduct	-4.98		
		For Class 52, Add	23.38		
		For Class 53, Add	42.28		
		For Class 54, Add	60.38		
		For Class 55, Add	69.33		
		For Class 56, Add	78.11		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe.....	108.60	15.59
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	59.48	
For Cement Mortar Lining (CML), Add	8.50	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	45.88	
For Fusion Bonded Epoxy Lining (206N), Add	15.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.37	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.43	
For Class 51, Add	11.88	
For Class 52, Add	25.67	
For Class 53, Add	46.42	
For Class 54, Add	66.30	
For Class 55, Add	76.12	
For Class 56, Add	85.77	
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe.....	116.98	16.37
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	64.57	
For Cement Mortar Lining (CML), Add	9.22	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	49.81	
For Fusion Bonded Epoxy Lining (206N), Add	16.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.92	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.85	
For Class 51, Add	12.88	
For Class 52, Add	27.84	
For Class 53, Add	50.36	
For Class 54, Add	71.93	
For Class 55, Add	82.58	
For Class 56, Add	93.03	
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	143.75	17.01
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	82.59	
For Cement Mortar Lining (CML), Add	11.80	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	63.71	
For Fusion Bonded Epoxy Lining (206N), Add	21.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.85	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.19	
For Class 51, Add	16.40	
For Class 52, Add	35.46	
For Class 53, Add	64.19	
For Class 54, Add	91.71	
For Class 55, Add	105.26	
For Class 56, Add	118.56	
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	190.10	24.16
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	92.09	
For Cement Mortar Lining (CML), Add	15.35	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	76.75	
For Fusion Bonded Epoxy Lining (206N), Add	27.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.51	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.51	
For Class 51, Add	21.38	
For Class 52, Add	46.21	
For Class 53, Add	83.63	
For Class 54, Add	119.47	
For Class 55, Add	137.13	
For Class 56, Add	154.47	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	236.71	26.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	98.02	
For Cement Mortar Lining (CML), Add	19.60	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	78.41	
For Fusion Bonded Epoxy Lining (206N), Add	35.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.70	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.84	
For Class 51, Add	27.23	
For Class 52, Add	58.87	
For Class 53, Add	106.58	
For Class 54, Add	152.27	
For Class 55, Add	174.75	
For Class 56, Add	196.83	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0010	LF	14", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For 40 Mil Ceramic Epoxy Lining (P401), Add For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	288.86 106.96 24.31 82.65 43.76 18.23 -14.44 33.71 72.88 131.99 188.60 216.42 243.74	30.15
33 14 13	13-0011	LF	16", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For 40 Mil Ceramic Epoxy Lining (P401), Add For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	324.84 111.74 27.25 84.48 49.06 20.44 -16.24 37.80 81.73 148.01 211.48 242.69 273.32	34.53
33 14 13	13-0012	LF	18", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For 40 Mil Ceramic Epoxy Lining (P401), Add For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	410.55 143.30 34.95 108.35 62.91 26.21 -20.53 48.40 104.67 189.60 270.92 310.87 350.08	40.28
33 14 13	13-0013	LF	20", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For 40 Mil Ceramic Epoxy Lining (P401), Add For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	458.13 146.27 38.49 107.77 69.28 28.87 -22.91 53.38 115.42 209.02 298.66 342.72 385.98	48.33
33 14 13	13-0014	LF	24", Class 50, Mechanical Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For 40 Mil Ceramic Epoxy Lining (P401), Add For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	608.12 160.14 51.66 108.48 92.99 38.74 -30.41 71.56 154.73 280.27 400.49 459.54 517.51	60.42

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe.....	826.11	65.05
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	225.83	
For Cement Mortar Lining (CML), Add	72.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	131.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.64	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-41.31	
For Class 51, Add	100.51	
For Class 52, Add	217.41	
For Class 53, Add	394.05	
For Class 54, Add	563.18	
For Class 55, Add	646.06	
For Class 56, Add	727.42	
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe.....	1,014.65	69.08
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	282.38	
For Cement Mortar Lining (CML), Add	91.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	163.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-50.73	
For Class 51, Add	125.45	
For Class 52, Add	271.40	
For Class 53, Add	492.05	
For Class 54, Add	703.31	
For Class 55, Add	806.72	
For Class 56, Add	908.22	
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	1,283.28	73.10
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	363.77	
For Cement Mortar Lining (CML), Add	117.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	211.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	88.01	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-64.16	
For Class 51, Add	161.31	
For Class 52, Add	349.03	
For Class 53, Add	632.97	
For Class 54, Add	904.82	
For Class 55, Add	1,037.73	
For Class 56, Add	1,168.18	
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	1,611.60	77.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	463.65	
For Cement Mortar Lining (CML), Add	149.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	269.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	112.17	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-80.58	
For Class 51, Add	205.31	
For Class 52, Add	444.27	
For Class 53, Add	805.87	
For Class 54, Add	1,152.07	
For Class 55, Add	1,321.18	
For Class 56, Add	1,487.16	
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow	203.63	46.26
For Cement Mortar Lining (CML), Add	13.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.01	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow	229.07	55.28
For Cement Mortar Lining (CML), Add	14.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	26.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow	361.31	81.70
For Cement Mortar Lining (CML), Add	23.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	42.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.82	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0023	EA	8" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	492.49 34.56 62.21 25.92	96.90
33 14 13 13-0024	EA	10" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	712.13 54.98 98.97 41.24	107.16
33 14 13 13-0025	EA	12" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	930.66 74.03 133.25 55.52	125.71
33 14 13 13-0026	EA	14" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,452.59 123.90 223.03 92.93	140.96
33 14 13 13-0027	EA	16" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,926.89 168.28 302.91 126.21	161.10
33 14 13 13-0028	EA	18" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,368.11 202.64 364.76 151.98	225.53
33 14 13 13-0029	EA	20" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,252.74 282.56 508.61 211.92	281.92
33 14 13 13-0030	EA	24" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,786.69 421.78 759.21 316.34	375.40
33 14 13 13-0031	EA	30" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,378.74 676.85 1,218.34 507.64	402.74
33 14 13 13-0032	EA	36" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,215.28 1,058.18 1,904.73 793.64	418.12
33 14 13 13-0033	EA	42" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,877.88 1,814.56 3,266.21 1,360.92	483.29
33 14 13 13-0034	EA	48" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,974.48 2,419.55 4,355.19 1,814.66	514.16

33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0036 EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow	189.89	46.26
For Cement Mortar Lining (CML), Add	11.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	21.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0037 EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow	203.54	55.28
For Cement Mortar Lining (CML), Add	11.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	21.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0038 EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow	316.14	81.70
For Cement Mortar Lining (CML), Add	19.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	34.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0039 EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow	427.69	96.90
For Cement Mortar Lining (CML), Add	28.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0040 EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow	572.71	107.16
For Cement Mortar Lining (CML), Add	41.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0041 EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow	803.02	125.71
For Cement Mortar Lining (CML), Add	61.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	110.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0042 EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow	1,177.69	140.96
For Cement Mortar Lining (CML), Add	96.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	173.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043 EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow	1,445.80	161.10
For Cement Mortar Lining (CML), Add	120.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	216.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	90.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044 EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow	2,065.71	225.53
For Cement Mortar Lining (CML), Add	172.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	310.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	129.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045 EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow	2,268.98	281.92
For Cement Mortar Lining (CML), Add	184.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	331.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	138.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046 EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow	3,367.01	375.40
For Cement Mortar Lining (CML), Add	279.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	503.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	209.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047 EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow	6,294.83	402.74
For Cement Mortar Lining (CML), Add	568.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,023.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	426.35	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0048	EA	36" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,945.36 831.19 1,496.15 623.39	418.12
33 14 13 13-0049	EA	42" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,503.50 1,277.13 2,298.83 957.84	483.29
33 14 13 13-0050	EA	48" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,514.76 1,673.58 3,012.44 1,255.18	514.16
33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)				
33 14 13 13-0052	EA	3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	164.36 9.43 16.97 7.07	46.26
33 14 13 13-0053	EA	4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	197.65 11.39 20.50 8.54	55.28
33 14 13 13-0054	EA	6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	300.43 17.67 31.81 13.25	81.70
33 14 13 13-0055	EA	8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	421.80 27.49 49.48 20.62	96.90
33 14 13 13-0056	EA	10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	570.75 40.84 73.52 30.63	107.16
33 14 13 13-0057	EA	12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	726.44 53.61 96.49 40.20	125.71
33 14 13 13-0058	EA	14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,189.47 97.59 175.66 73.19	140.96
33 14 13 13-0059	EA	16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,396.71 115.26 207.47 86.45	161.10
33 14 13 13-0060	EA	18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,757.43 141.58 254.84 106.18	225.53

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0061 EA 20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,351.45 192.43 346.38 144.32	281.92
33 14 13 13-0062 EA 24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,151.01 258.21 464.78 193.66	375.40
33 14 13 13-0063 EA 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,373.90 476.37 857.46 357.28	402.74
33 14 13 13-0064 EA 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,616.00 698.26 1,256.86 523.69	418.12
33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,274.82 1,054.26 1,897.66 790.69	483.29
33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,506.53 1,372.75 2,470.96 1,029.56	514.16
33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	164.36 9.43 16.97 7.07	46.26
33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	191.76 10.80 19.44 8.10	55.28
33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	306.32 18.26 32.87 13.70	81.70
33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	396.28 24.94 44.89 18.70	96.90
33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	566.82 40.45 72.81 30.34	107.16
33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	693.06 50.27 90.48 37.70	125.71



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0074	EA	14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,326.92 111.34 200.40 83.50	140.96
33 14 13 13-0075	EA	16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,463.48 121.94 219.49 91.46	161.10
33 14 13 13-0076	EA	18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,130.51 178.88 321.99 134.16	225.53
33 14 13 13-0077	EA	20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,239.52 181.24 326.23 135.93	281.92
33 14 13 13-0078	EA	24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,986.07 241.72 435.09 181.29	375.40
33 14 13 13-0079	EA	30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,460.30 485.01 873.02 363.76	402.74
33 14 13 13-0080	EA	36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,262.55 662.91 1,193.24 497.18	418.12
33 14 13 13-0081	EA	42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,793.74 1,006.15 1,811.07 754.61	483.29
33 14 13 13-0082	EA	48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,412.27 1,363.33 2,453.99 1,022.50	514.16
33 14 13 13-0083		Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0084	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	209.53 13.94 25.10 10.46	46.26
33 14 13 13-0085	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	256.56 17.28 31.10 12.96	55.28

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0086 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	410.40	81.70
For Cement Mortar Lining (CML), Add	28.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	51.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0087 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	557.29	96.90
For Cement Mortar Lining (CML), Add	41.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0088 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	806.38	107.16
For Cement Mortar Lining (CML), Add	64.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	115.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0089 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,032.76	125.71
For Cement Mortar Lining (CML), Add	84.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	151.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0090 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,780.51	140.96
For Cement Mortar Lining (CML), Add	156.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	282.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	117.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0091 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,726.07	161.10
For Cement Mortar Lining (CML), Add	248.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	446.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	186.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0092 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,161.40	225.53
For Cement Mortar Lining (CML), Add	281.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	507.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	211.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0093 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	4,297.38	281.92
For Cement Mortar Lining (CML), Add	387.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	696.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	290.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0094 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	5,218.68	375.40
For Cement Mortar Lining (CML), Add	464.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	836.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	348.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0095 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	9,766.48	402.74
For Cement Mortar Lining (CML), Add	915.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,648.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	686.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0096 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	17,506.65	418.12
For Cement Mortar Lining (CML), Add	1,687.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,037.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,265.49	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0002)



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0098	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	191.85 12.17 21.91 9.13	46.26
33 14 13 13-0099	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	209.43 12.57 22.62 9.43	55.28
33 14 13 13-0100	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	337.74 21.40 38.53 16.05	81.70
33 14 13 13-0101	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	490.53 34.36 61.85 25.77	96.90
33 14 13 13-0102	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	672.86 51.05 91.90 38.29	107.16
33 14 13 13-0103	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	916.91 72.65 130.78 54.49	125.71
33 14 13 13-0104	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,574.33 136.08 244.94 102.06	140.96
33 14 13 13-0105	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,402.08 215.80 388.44 161.85	161.10
33 14 13 13-0106	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,833.48 249.18 448.53 186.89	225.53
33 14 13 13-0107	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,680.81 325.37 585.66 244.03	281.92
33 14 13 13-0108	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,623.71 405.48 729.87 304.11	375.40
33 14 13 13-0109	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,574.57 796.44 1,433.58 597.33	402.74

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	15,313.31	418.12
For Cement Mortar Lining (CML), Add	1,467.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,642.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,100.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)		
33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee.....	332.94	69.41
For Cement Mortar Lining (CML), Add	22.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee.....	345.30	77.56
For Cement Mortar Lining (CML), Add	22.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.00	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee.....	314.18	81.70
For Cement Mortar Lining (CML), Add	19.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	34.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee.....	419.05	102.91
For Cement Mortar Lining (CML), Add	26.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	47.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee.....	482.43	107.16
For Cement Mortar Lining (CML), Add	32.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	57.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.01	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee.....	525.32	119.97
For Cement Mortar Lining (CML), Add	34.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	61.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee.....	559.28	124.19
For Cement Mortar Lining (CML), Add	37.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	66.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee.....	635.55	136.95
For Cement Mortar Lining (CML), Add	42.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	77.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee.....	736.82	145.49
For Cement Mortar Lining (CML), Add	51.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	92.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee.....	771.21	133.17
For Cement Mortar Lining (CML), Add	56.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	102.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee.....	771.85	145.26
For Cement Mortar Lining (CML), Add	55.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	99.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.38	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0123	EA	10" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	878.32 64.60 116.28 48.45	153.31
33 14 13 13-0124	EA	10" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	982.39 73.83 132.90 55.37	161.10
33 14 13 13-0125	EA	12" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	923.26 69.71 125.47 52.28	149.28
33 14 13 13-0126	EA	12" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,049.55 80.51 144.91 60.38	161.35
33 14 13 13-0127	EA	12" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,291.51 103.48 186.27 77.61	169.42
33 14 13 13-0128	EA	12" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,383.80 111.53 200.76 83.65	177.20
33 14 13 13-0129	EA	12" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,311.58 103.09 185.56 77.32	185.26
33 14 13 13-0130	EA	14" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,400.19 111.53 200.76 83.65	188.02
33 14 13 13-0131	EA	14" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,559.68 126.26 227.27 94.69	196.09
33 14 13 13-0132	EA	14" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,995.61 168.67 303.61 126.50	203.86
33 14 13 13-0133	EA	14" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,133.48 181.24 326.23 135.93	211.92
33 14 13 13-0134	EA	14" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,057.47 171.62 308.91 128.71	225.29

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0135	EA	16" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,780.92 143.93 259.08 107.95	225.52
33 14 13 13-0136	EA	16" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,916.95 156.30 281.35 117.23	233.59
33 14 13 13-0137	EA	16" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,235.07 186.94 336.48 140.20	241.36
33 14 13 13-0138	EA	16" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,447.54 206.96 372.53 155.22	249.42
33 14 13 13-0139	EA	16" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,948.84 255.07 459.13 191.30	262.76
33 14 13 13-0140	EA	16" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,784.80 235.83 424.49 176.87	281.55
33 14 13 13-0141	EA	18" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,475.54 203.82 366.88 152.87	288.63
33 14 13 13-0142	EA	18" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,656.63 220.71 397.28 165.53	296.69
33 14 13 13-0143	EA	18" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,876.55 241.52 434.74 181.14	304.47
33 14 13 13-0144	EA	18" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,094.94 262.14 471.85 196.61	312.53
33 14 13 13-0145	EA	18" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,183.85 269.01 484.22 201.76	325.85
33 14 13 13-0146	EA	18" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,398.81 287.67 517.80 215.75	344.61



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0147	EA	18" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,982.67 341.27 614.29 255.96	376.14
33 14 13 13-0148	EA	20" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,920.60 229.35 412.83 172.01	413.89
33 14 13 13-0149	EA	20" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,983.88 234.45 422.02 175.84	421.97
33 14 13 13-0150	EA	20" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,252.89 260.18 468.32 195.13	429.74
33 14 13 13-0151	EA	20" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,520.37 285.70 514.27 214.28	437.79
33 14 13 13-0152	EA	20" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,562.16 287.86 518.16 215.90	451.12
33 14 13 13-0153	EA	20" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,614.14 290.22 522.40 217.67	469.87
33 14 13 13-0154	EA	20" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,549.50 378.98 682.16 284.23	501.42
33 14 13 13-0155	EA	20" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,000.33 314.57 566.22 235.93	564.08
33 14 13 13-0156	EA	24" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,575.19 275.89 496.59 206.91	538.79
33 14 13 13-0157	EA	24" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,622.75 279.42 502.96 209.57	547.61
33 14 13 13-0158	EA	24" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,995.84 315.55 567.99 236.66	554.63

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0159 EA 24" x 12" Mechanical Joint Ductile Iron Tee.....	4,096.40	562.68
For Cement Mortar Lining (CML), Add	324.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	583.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	243.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0160 EA 24" x 14" Mechanical Joint Ductile Iron Tee.....	4,615.34	576.01
For Cement Mortar Lining (CML), Add	374.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	673.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	280.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0161 EA 24" x 16" Mechanical Joint Ductile Iron Tee.....	4,987.40	594.75
For Cement Mortar Lining (CML), Add	408.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	735.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	306.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0162 EA 24" x 18" Mechanical Joint Ductile Iron Tee.....	5,671.42	626.31
For Cement Mortar Lining (CML), Add	472.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	850.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	354.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee.....	6,286.66	688.94
For Cement Mortar Lining (CML), Add	524.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	943.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	393.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee.....	5,807.90	751.42
For Cement Mortar Lining (CML), Add	466.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	840.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	350.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee.....	6,231.34	635.58
For Cement Mortar Lining (CML), Add	526.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	948.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	395.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee.....	6,567.12	643.36
For Cement Mortar Lining (CML), Add	559.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,006.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	419.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee.....	6,903.33	651.41
For Cement Mortar Lining (CML), Add	591.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,064.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	443.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee.....	7,383.01	664.75
For Cement Mortar Lining (CML), Add	637.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,147.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	478.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee.....	7,902.32	884.44
For Cement Mortar Lining (CML), Add	686.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,236.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	515.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee.....	8,115.06	715.05
For Cement Mortar Lining (CML), Add	703.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,265.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	527.37	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0171	EA	30" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,439.70 726.14 1,307.05 544.60	777.70
33 14 13 13-0172	EA	30" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,866.16 759.32 1,366.78 569.49	840.13
33 14 13 13-0173	EA	30" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,128.69 978.86 1,761.94 734.14	884.44
33 14 13 13-0174	EA	30" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,517.60 556.68 1,002.03 417.51	627.52
33 14 13 13-0175	EA	36" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,622.79 655.45 1,179.81 491.59	705.06
33 14 13 13-0176	EA	36" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,486.78 740.67 1,333.21 555.50	712.85
33 14 13 13-0177	EA	36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,954.53 786.23 1,415.21 589.67	720.90
33 14 13 13-0178	EA	36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,290.87 817.84 1,472.11 613.38	734.23
33 14 13 13-0179	EA	36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,631.50 849.06 1,528.31 636.80	752.99
33 14 13 13-0180	EA	36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,284.10 909.54 1,637.17 682.16	784.54
33 14 13 13-0181	EA	36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,985.74 970.22 1,746.39 727.66	847.18
33 14 13 13-0182	EA	36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,156.41 1,077.82 1,940.08 808.37	909.61

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0183 EA 36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,443.04 1,199.76 2,159.57 899.82	988.79
33 14 13 13-0184 EA 36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,704.73 1,420.67 2,557.20 1,065.50	988.79
33 14 13 13-0185 EA 42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,676.79 1,652.57 2,974.62 1,239.42	759.75
33 14 13 13-0186 EA 42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,030.80 1,685.95 3,034.70 1,264.46	773.08
33 14 13 13-0187 EA 42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,044.41 1,884.47 3,392.04 1,413.35	791.83
33 14 13 13-0188 EA 42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,737.34 1,748.98 3,148.16 1,311.73	823.37
33 14 13 13-0189 EA 42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,832.23 1,748.98 3,148.16 1,311.73	886.02
33 14 13 13-0190 EA 42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,246.90 1,780.99 3,205.77 1,335.74	948.46
33 14 13 13-0191 EA 42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,351.30 2,184.70 3,932.46 1,638.53	992.83
33 14 13 13-0192 EA 42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,320.94 2,276.40 4,097.52 1,707.30	1,027.58
33 14 13 13-0193 EA 42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,730.78 2,414.44 4,346.00 1,810.83	1,047.01
33 14 13 13-0194 EA 48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,831.82 1,958.69 3,525.64 1,469.02	821.64



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0195	EA	48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,205.47 1,994.04 3,589.26 1,495.53	834.97
33 14 13 13-0196	EA	48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,734.60 2,044.11 3,679.39 1,533.08	853.73
33 14 13 13-0197	EA	48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,281.15 2,093.98 3,769.17 1,570.49	885.28
33 14 13 13-0198	EA	48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,876.78 2,144.06 3,859.30 1,608.04	947.90
33 14 13 13-0199	EA	48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,038.14 2,150.73 3,871.32 1,613.05	1,010.34
33 14 13 13-0200	EA	48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	28,051.69 2,645.36 4,761.65 1,984.02	1,054.72
33 14 13 13-0201	EA	48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,992.25 3,034.16 5,461.48 2,275.62	1,089.46
33 14 13 13-0202	EA	48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	33,561.13 3,188.10 5,738.58 2,391.08	1,108.88
33 14 13 13-0203	EA	48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	34,120.53 3,239.35 5,830.83 2,429.51	1,139.88
33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)				
33 14 13 13-0205	EA	4" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	284.43 16.69 30.04 12.52	77.56
33 14 13 13-0206	EA	4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	435.92 31.22 56.20 23.42	81.65
33 14 13 13-0207	EA	6" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	419.05 26.31 47.36 19.73	102.91

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0208	EA	6" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	484.39	107.16
		For Cement Mortar Lining (CML), Add	32.20	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	57.97	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.15	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0209	EA	6" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	652.95	119.91
		For Cement Mortar Lining (CML), Add	47.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	84.83	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.34	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0210	EA	8" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	838.11	124.19
		For Cement Mortar Lining (CML), Add	65.00	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	116.99	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.75	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0211	EA	8" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	751.41	136.95
		For Cement Mortar Lining (CML), Add	54.39	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	97.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.79	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0212	EA	8" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	907.65	145.45
		For Cement Mortar Lining (CML), Add	68.73	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	123.71	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	51.54	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0213	EA	10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,295.50	133.17
		For Cement Mortar Lining (CML), Add	109.37	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	196.87	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.03	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0214	EA	10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,370.75	145.26
		For Cement Mortar Lining (CML), Add	115.07	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	207.12	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	86.30	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215	EA	10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,575.40	153.31
		For Cement Mortar Lining (CML), Add	134.31	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	241.76	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.73	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216	EA	10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,773.72	161.10
		For Cement Mortar Lining (CML), Add	152.96	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	275.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	114.72	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217	EA	12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,653.72	149.28
		For Cement Mortar Lining (CML), Add	142.75	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	256.96	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	107.07	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218	EA	12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,870.33	161.35
		For Cement Mortar Lining (CML), Add	162.59	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	292.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	121.94	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219	EA	12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,253.67	169.42
		For Cement Mortar Lining (CML), Add	199.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	359.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	149.77	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0220	EA	12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,318.48	177.20
		For Cement Mortar Lining (CML), Add	205.00	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	369.00	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	153.75	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221	EA	12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,100.95	185.25
		For Cement Mortar Lining (CML), Add	182.03	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	327.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	136.52	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222	EA	14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,476.25	188.02
		For Cement Mortar Lining (CML), Add	219.14	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	394.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	164.35	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223	EA	14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,834.06	196.09
		For Cement Mortar Lining (CML), Add	253.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	456.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	190.27	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0224	EA	14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,700.02	203.86
		For Cement Mortar Lining (CML), Add	339.11	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	610.41	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	254.34	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0225	EA	14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,963.56	211.92
		For Cement Mortar Lining (CML), Add	364.25	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	655.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	273.19	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0226	EA	14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,873.80	225.25
		For Cement Mortar Lining (CML), Add	353.25	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	635.85	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	264.94	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0227	EA	16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,544.87	225.52
		For Cement Mortar Lining (CML), Add	220.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	396.57	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	165.24	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0228	EA	16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,800.57	233.59
		For Cement Mortar Lining (CML), Add	244.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	440.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	183.50	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0229	EA	16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,301.30	241.36
		For Cement Mortar Lining (CML), Add	293.56	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	528.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	220.17	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0230	EA	16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,692.47	249.42
		For Cement Mortar Lining (CML), Add	331.46	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	596.62	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	248.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0231	EA	16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,619.86	262.76
		For Cement Mortar Lining (CML), Add	422.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	759.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	316.63	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0232	EA	16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,455.84	281.51
		For Cement Mortar Lining (CML), Add	402.93	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	725.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	302.20	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0233	EA	18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	4,005.18	288.63
		For Cement Mortar Lining (CML), Add	356.79	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	642.21	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	267.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0234	EA	18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,311.94	296.69
		For Cement Mortar Lining (CML), Add	386.24	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	695.23	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	289.68	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0235	EA	18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	4,608.44	304.47
		For Cement Mortar Lining (CML), Add	414.71	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	746.48	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	311.03	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0236	EA	18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,930.90	312.53
		For Cement Mortar Lining (CML), Add	445.74	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	802.33	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	334.30	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237	EA	18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,986.44	325.85
		For Cement Mortar Lining (CML), Add	449.27	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	808.69	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	336.95	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0238	EA	18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	5,038.42	344.61
		For Cement Mortar Lining (CML), Add	451.63	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	812.93	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	338.72	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239	EA	18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	4,611.03	376.16
		For Cement Mortar Lining (CML), Add	404.11	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	727.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	303.08	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240	EA	20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	4,754.61	413.89
		For Cement Mortar Lining (CML), Add	412.75	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	742.95	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	309.56	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241	EA	20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,859.12	421.97
		For Cement Mortar Lining (CML), Add	421.98	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	759.56	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	316.48	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242	EA	20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	5,334.31	429.74
		For Cement Mortar Lining (CML), Add	468.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	842.97	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	351.24	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243	EA	20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	5,806.00	437.79
		For Cement Mortar Lining (CML), Add	514.27	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	925.68	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	385.70	
		Note: ANSI/AWWA C151/A21.51		



Utilities		33	CS
Water Utilities		33 10	
Water Utility Transmission and Distribution		33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0244	EA	20" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,865.46 518.19 932.75 388.65	451.12
33 14 13 13-0245	EA	20" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,935.12 522.32 940.17 391.74	469.87
33 14 13 13-0246	EA	20" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,874.40 611.47 1,100.64 458.60	501.42
33 14 13 13-0247	EA	20" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,517.66 566.30 1,019.34 424.73	564.06
33 14 13 13-0248	EA	24" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,782.27 496.59 893.87 372.45	538.79
33 14 13 13-0249	EA	24" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,857.33 502.88 905.18 377.16	546.84
33 14 13 13-0250	EA	24" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,519.06 567.87 1,022.17 425.90	554.63
33 14 13 13-0251	EA	24" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,821.87 596.93 1,074.48 447.70	562.68
33 14 13 13-0252	EA	24" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,870.99 699.83 1,259.69 524.87	576.01
33 14 13 13-0253	EA	24" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,741.80 784.07 1,411.32 588.05	594.75
33 14 13 13-0254	EA	24" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,779.27 883.03 1,589.46 662.27	626.31
33 14 13 13-0255	EA	24" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,744.03 970.02 1,746.03 727.51	688.94

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0256	EA	24" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	9,542.68	751.38
		For Cement Mortar Lining (CML), Add	840.42	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,512.76	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	630.32	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0257	EA	30" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	11,905.71	627.52
		For Cement Mortar Lining (CML), Add	1,095.49	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,971.89	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	821.62	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0258	EA	30" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	13,343.50	635.58
		For Cement Mortar Lining (CML), Add	1,238.05	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,228.49	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	928.54	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0259	EA	30" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	14,117.16	643.36
		For Cement Mortar Lining (CML), Add	1,314.24	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,365.63	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	985.68	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0260	EA	30" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	14,891.25	651.41
		For Cement Mortar Lining (CML), Add	1,390.43	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,502.77	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,042.82	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0261	EA	30" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	15,989.47	664.75
		For Cement Mortar Lining (CML), Add	1,498.23	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,696.81	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,123.67	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0262	EA	30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	17,172.47	683.50
		For Cement Mortar Lining (CML), Add	1,613.69	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,904.63	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,210.26	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263	EA	30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	17,607.10	715.05
		For Cement Mortar Lining (CML), Add	1,652.37	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,974.26	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,239.28	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264	EA	30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	18,241.99	777.70
		For Cement Mortar Lining (CML), Add	1,706.37	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	3,071.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,279.78	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265	EA	30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	19,116.15	840.13
		For Cement Mortar Lining (CML), Add	1,784.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	3,211.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,338.24	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266	EA	30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	20,716.95	884.51
		For Cement Mortar Lining (CML), Add	1,937.68	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	3,487.82	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,453.26	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267	EA	36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	22,713.48	720.90
		For Cement Mortar Lining (CML), Add	2,162.12	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	3,891.82	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,621.59	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0268	EA	36" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,603.55 2,249.11 4,048.39 1,686.83	734.23
33 14 13 13-0269	EA	36" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,490.06 2,334.92 4,202.85 1,751.19	752.99
33 14 13 13-0270	EA	36" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,201.04 2,501.23 4,502.22 1,875.93	784.54
33 14 13 13-0271	EA	36" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	27,964.99 2,668.14 4,802.65 2,001.11	847.18
33 14 13 13-0272	EA	36" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,018.75 2,964.05 5,335.30 2,223.04	909.61
33 14 13 13-0273	EA	36" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	34,744.17 3,329.87 5,993.77 2,497.40	953.99
33 14 13 13-0274	EA	36" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	41,455.38 3,995.73 7,192.31 2,996.80	988.73
33 14 13 13-0275	EA	42" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	36,479.10 3,513.67 6,324.60 2,635.25	886.02
33 14 13 13-0276	EA	42" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	37,392.53 3,595.55 6,471.99 2,696.66	948.46
33 14 13 13-0277	EA	42" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	39,941.76 3,843.75 6,918.74 2,882.81	992.83
33 14 13 13-0278	EA	42" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	45,669.20 4,411.23 7,940.21 3,308.42	1,027.58
33 14 13 13-0279	EA	42" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	53,855.42 5,226.91 9,408.43 3,920.18	1,047.00

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0280 EA 48" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	35,991.66	947.90
For Cement Mortar Lining (CML), Add	3,455.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6,219.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,591.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0281 EA 48" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	40,759.63	1,010.34
For Cement Mortar Lining (CML), Add	3,922.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	7,061.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,942.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0282 EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	43,440.42	1,054.72
For Cement Mortar Lining (CML), Add	4,184.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	7,531.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,138.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0283 EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	49,511.49	1,089.46
For Cement Mortar Lining (CML), Add	4,786.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	8,614.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,589.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0284 EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	64,719.53	1,108.88
For Cement Mortar Lining (CML), Add	6,303.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11,347.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4,727.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0285 EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral)	71,049.95	1,139.84
For Cement Mortar Lining (CML), Add	6,932.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12,478.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5,199.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)		
33 14 13 13-0287 EA 3" x 3" Mechanical Joint Ductile Iron Cross	393.51	92.54
For Cement Mortar Lining (CML), Add	25.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0288 EA 4" x 3" Mechanical Joint Ductile Iron Cross	476.57	100.70
For Cement Mortar Lining (CML), Add	32.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0289 EA 4" x 4" Mechanical Joint Ductile Iron Cross	565.04	102.07
For Cement Mortar Lining (CML), Add	41.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0290 EA 6" x 3" Mechanical Joint Ductile Iron Cross	674.28	126.16
For Cement Mortar Lining (CML), Add	48.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	86.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	36.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0291 EA 6" x 4" Mechanical Joint Ductile Iron Cross	653.89	136.08
For Cement Mortar Lining (CML), Add	44.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	80.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0292 EA 6" x 6" Mechanical Joint Ductile Iron Cross	760.41	170.10
For Cement Mortar Lining (CML), Add	50.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	90.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.70	
Note: ANSI/AWWA C151/A21.51		



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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0293	EA	8" x 4" Mechanical Joint Ductile Iron Cross	671.28	148.86
		For Cement Mortar Lining (CML), Add	44.57	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	80.23	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.43	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0294	EA	8" x 6" Mechanical Joint Ductile Iron Cross	797.42	182.88
		For Cement Mortar Lining (CML), Add	52.04	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	93.66	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.03	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0295	EA	8" x 8" Mechanical Joint Ductile Iron Cross	844.27	195.62
		For Cement Mortar Lining (CML), Add	54.78	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	98.61	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.09	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0296	EA	10" x 4" Mechanical Joint Ductile Iron Cross	817.22	155.75
		For Cement Mortar Lining (CML), Add	58.12	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	104.62	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0297	EA	10" x 6" Mechanical Joint Ductile Iron Cross	936.72	187.97
		For Cement Mortar Lining (CML), Add	65.19	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	117.35	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.89	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0298	EA	10" x 8" Mechanical Joint Ductile Iron Cross	1,112.12	200.06
		For Cement Mortar Lining (CML), Add	80.90	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	145.62	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.68	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0299	EA	10" x 10" Mechanical Joint Ductile Iron Cross	1,203.24	214.79
		For Cement Mortar Lining (CML), Add	87.77	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	157.99	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.83	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0300	EA	12 x 4" Mechanical Joint Ductile Iron Cross.....	990.68	169.15
		For Cement Mortar Lining (CML), Add	73.44	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	132.19	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.08	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0301	EA	12" x 6" Mechanical Joint Ductile Iron Cross	1,151.42	201.37
		For Cement Mortar Lining (CML), Add	84.63	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	152.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.47	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0302	EA	12" x 8" Mechanical Joint Ductile Iron Cross	1,658.68	213.46
		For Cement Mortar Lining (CML), Add	133.53	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	240.35	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.14	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0303	EA	12" x 10" Mechanical Joint Ductile Iron Cross	1,681.07	228.24
		For Cement Mortar Lining (CML), Add	133.53	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	240.35	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.14	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0304	EA	12" x 12" Mechanical Joint Ductile Iron Cross	1,907.56	241.64
		For Cement Mortar Lining (CML), Add	154.14	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	277.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	115.61	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0305	EA	14" x 6" Mechanical Joint Ductile Iron Cross	1,953.61	221.49
		For Cement Mortar Lining (CML), Add	161.80	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	291.24	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	121.35	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0306	EA	14" x 8" Mechanical Joint Ductile Iron Cross	2,297.88	233.59
		For Cement Mortar Lining (CML), Add	194.40	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	349.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	145.80	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0307	EA	14" x 10" Mechanical Joint Ductile Iron Cross	2,359.56	248.37
		For Cement Mortar Lining (CML), Add	198.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	356.98	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	148.74	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0308	EA	14" x 12" Mechanical Joint Ductile Iron Cross	2,489.83	261.77
		For Cement Mortar Lining (CML), Add	209.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	376.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	156.99	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0309	EA	14" x 14" Mechanical Joint Ductile Iron Cross	2,753.99	281.92
		For Cement Mortar Lining (CML), Add	232.69	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	418.84	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	174.52	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0310	EA	16" x 6" Mechanical Joint Ductile Iron Cross	2,233.90	249.67
		For Cement Mortar Lining (CML), Add	185.56	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	334.01	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	139.17	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0311	EA	16" x 8" Mechanical Joint Ductile Iron Cross	2,540.87	261.77
		For Cement Mortar Lining (CML), Add	214.43	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	385.97	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	160.82	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0312	EA	16" x 10" Mechanical Joint Ductile Iron Cross	3,039.60	276.54
		For Cement Mortar Lining (CML), Add	262.06	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	471.71	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	196.55	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0313	EA	16" x 12" Mechanical Joint Ductile Iron Cross	3,386.68	289.95
		For Cement Mortar Lining (CML), Add	294.74	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	530.52	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	221.05	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0314	EA	16" x 14" Mechanical Joint Ductile Iron Cross	4,088.73	310.08
		For Cement Mortar Lining (CML), Add	361.89	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	651.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	271.42	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0315	EA	16" x 16" Mechanical Joint Ductile Iron Cross	4,785.29	338.30
		For Cement Mortar Lining (CML), Add	427.28	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	769.10	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	320.46	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0316	EA	18" x 6" Mechanical Joint Ductile Iron Cross	3,689.21	295.24
		For Cement Mortar Lining (CML), Add	324.19	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	583.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	243.14	
		Note: ANSI/AWWA C151/A21.51		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0317	EA	18" x 8" Mechanical Joint Ductile Iron Cross	3,899.98	307.33
		For Cement Mortar Lining (CML), Add	343.43	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	618.18	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	257.58	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0318	EA	18" x 10" Mechanical Joint Ductile Iron Cross	4,083.37	322.10
		For Cement Mortar Lining (CML), Add	359.54	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	647.16	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	269.65	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0319	EA	18" x 12" Mechanical Joint Ductile Iron Cross	4,425.71	335.50
		For Cement Mortar Lining (CML), Add	391.74	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	705.13	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	293.80	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0320	EA	18" x 14" Mechanical Joint Ductile Iron Cross	5,161.14	355.63
		For Cement Mortar Lining (CML), Add	462.23	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	832.02	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	346.67	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0321	EA	18" x 16" Mechanical Joint Ductile Iron Cross	5,494.45	383.80
		For Cement Mortar Lining (CML), Add	491.29	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	884.33	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	368.47	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322	EA	18" x 18" Mechanical Joint Ductile Iron Cross	5,755.90	429.34
		For Cement Mortar Lining (CML), Add	510.54	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	918.96	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	382.90	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0323	EA	20" x 6" Mechanical Joint Ductile Iron Cross	4,637.69	370.43
		For Cement Mortar Lining (CML), Add	407.64	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	733.76	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	305.73	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0324	EA	20" x 8" Mechanical Joint Ductile Iron Cross	4,850.41	382.52
		For Cement Mortar Lining (CML), Add	427.08	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	768.75	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	320.31	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0325	EA	20" x 10" Mechanical Joint Ductile Iron Cross	5,000.43	397.30
		For Cement Mortar Lining (CML), Add	439.85	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	791.72	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	329.88	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0326	EA	20" x 12" Mechanical Joint Ductile Iron Cross	5,340.82	410.70
		For Cement Mortar Lining (CML), Add	471.85	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	849.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	353.89	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0327	EA	20" x 14" Mechanical Joint Ductile Iron Cross	5,436.10	430.83
		For Cement Mortar Lining (CML), Add	478.33	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	861.00	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	358.75	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0328	EA	20" x 16" Mechanical Joint Ductile Iron Cross	6,570.55	459.00
		For Cement Mortar Lining (CML), Add	587.51	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,057.52	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	440.63	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0329 EA 20" x 18" Mechanical Joint Ductile Iron Cross	6,832.01	504.56
For Cement Mortar Lining (CML), Add	606.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,092.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	455.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0330 EA 20" x 20" Mechanical Joint Ductile Iron Cross	7,395.61	579.70
For Cement Mortar Lining (CML), Add	651.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,173.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	488.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0331 EA 24" x 6" Mechanical Joint Ductile Iron Cross	6,319.96	463.39
For Cement Mortar Lining (CML), Add	561.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,011.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	421.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0332 EA 24" x 8" Mechanical Joint Ductile Iron Cross	6,468.25	475.48
For Cement Mortar Lining (CML), Add	574.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,034.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	431.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross	6,714.12	490.25
For Cement Mortar Lining (CML), Add	597.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,074.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	447.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross	6,926.86	503.65
For Cement Mortar Lining (CML), Add	616.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,109.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	462.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross	7,053.56	523.78
For Cement Mortar Lining (CML), Add	626.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,126.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	469.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross	7,322.07	551.96
For Cement Mortar Lining (CML), Add	648.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,167.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	486.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross	9,670.84	597.50
For Cement Mortar Lining (CML), Add	876.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,577.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	657.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross	10,201.06	672.72
For Cement Mortar Lining (CML), Add	918.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,652.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	688.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross	11,241.23	765.70
For Cement Mortar Lining (CML), Add	1,008.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,814.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	756.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross	12,069.12	616.13
For Cement Mortar Lining (CML), Add	1,113.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,004.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	835.17	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0341	EA	30" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,309.46 1,135.35 2,043.64 851.52	630.92
33 14 13 13-0342	EA	30" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,545.78 1,156.95 2,082.52 867.71	644.31
33 14 13 13-0343	EA	30" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,825.64 1,181.89 2,127.40 886.42	664.45
33 14 13 13-0344	EA	30" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,147.16 1,209.77 2,177.59 907.33	692.62
33 14 13 13-0345	EA	30" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,526.44 1,240.80 2,233.44 930.60	738.17
33 14 13 13-0346	EA	30" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,011.50 1,277.91 2,300.24 958.43	813.38
33 14 13 13-0347	EA	30" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,002.95 1,662.97 2,993.35 1,247.23	906.33
33 14 13 13-0348	EA	30" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,702.00 1,911.57 3,440.82 1,433.67	1,047.01
33 14 13 13-0349	EA	36" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,832.84 1,582.07 2,847.73 1,186.55	667.98
33 14 13 13-0350	EA	36" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,071.21 1,603.67 2,886.61 1,202.75	682.76
33 14 13 13-0351	EA	36" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,276.10 1,622.13 2,919.83 1,216.60	696.16
33 14 13 13-0352	EA	36" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,522.60 1,643.73 2,958.71 1,232.80	716.29

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0353 EA 36" x 16" Mechanical Joint Ductile Iron Cross	17,812.69	744.47
For Cement Mortar Lining (CML), Add	1,668.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,003.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,251.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0354 EA 36" x 18" Mechanical Joint Ductile Iron Cross	18,158.59	790.02
For Cement Mortar Lining (CML), Add	1,696.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,053.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,272.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0355 EA 36" x 20" Mechanical Joint Ductile Iron Cross	18,612.23	865.23
For Cement Mortar Lining (CML), Add	1,730.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,114.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,297.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0356 EA 36" x 24" Mechanical Joint Ductile Iron Cross	19,401.06	958.19
For Cement Mortar Lining (CML), Add	1,794.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,230.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,346.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross	26,121.55	1,098.84
For Cement Mortar Lining (CML), Add	2,445.66	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,402.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,834.25	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross	28,697.81	1,150.74
For Cement Mortar Lining (CML), Add	2,695.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,851.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,021.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross	22,583.98	726.14
For Cement Mortar Lining (CML), Add	2,148.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,867.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,611.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross	25,531.89	746.28
For Cement Mortar Lining (CML), Add	2,440.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,392.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,830.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross	23,098.96	774.44
For Cement Mortar Lining (CML), Add	2,192.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,946.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,644.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross	23,405.58	820.01
For Cement Mortar Lining (CML), Add	2,216.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,989.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,662.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross	23,843.52	895.21
For Cement Mortar Lining (CML), Add	2,248.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,047.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,686.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross	24,575.40	988.16
For Cement Mortar Lining (CML), Add	2,307.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,154.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,730.86	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0365	EA	42" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,456.92 2,974.66 5,354.38 2,230.99	1,128.83
33 14 13 13-0366	EA	42" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	41,068.74 3,927.99 7,070.37 2,945.99	1,180.67
33 14 13 13-0367	EA	42" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	44,004.58 4,217.03 7,590.65 3,162.77	1,210.67
33 14 13 13-0368	EA	48" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,526.43 2,924.59 5,264.25 2,193.44	845.18
33 14 13 13-0369	EA	48" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,733.65 2,942.26 5,296.06 2,206.69	865.30
33 14 13 13-0370	EA	48" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,011.97 2,965.82 5,338.48 2,224.37	893.47
33 14 13 13-0371	EA	48" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,316.63 2,989.39 5,380.89 2,242.04	939.04
33 14 13 13-0372	EA	48" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,727.08 3,019.04 5,434.26 2,264.28	1,014.24
33 14 13 13-0373	EA	48" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	32,427.55 3,075.00 5,535.00 2,306.25	1,107.19
33 14 13 13-0374	EA	48" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	34,323.46 3,243.28 5,837.90 2,432.46	1,247.85
33 14 13 13-0375	EA	48" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	42,044.36 4,007.51 7,213.52 3,005.63	1,299.70
33 14 13 13-0376	EA	48" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	54,042.22 5,202.76 9,364.96 3,902.07	1,329.68

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0377 EA 48" x 48" Mechanical Joint Ductile Iron Cross	57,556.76	1,448.65
For Cement Mortar Lining (CML), Add	5,536.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	9,965.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4,152.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)		
33 14 13 13-0379 EA 4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	190.18	50.34
For Cement Mortar Lining (CML), Add	11.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0380 EA 6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	221.29	63.11
For Cement Mortar Lining (CML), Add	12.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0381 EA 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	239.26	67.19
For Cement Mortar Lining (CML), Add	13.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	303.33	75.71
For Cement Mortar Lining (CML), Add	18.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	334.31	88.46
For Cement Mortar Lining (CML), Add	20.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	36.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	365.87	79.48
For Cement Mortar Lining (CML), Add	24.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	397.92	91.55
For Cement Mortar Lining (CML), Add	25.92	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	435.65	99.62
For Cement Mortar Lining (CML), Add	28.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	51.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	442.87	87.53
For Cement Mortar Lining (CML), Add	31.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	55.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	492.59	99.62
For Cement Mortar Lining (CML), Add	34.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	61.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	514.61	107.67
For Cement Mortar Lining (CML), Add	35.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.36	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0390	EA	12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	563.72	115.46
		For Cement Mortar Lining (CML), Add	38.88	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	69.98	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391	EA	14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	929.07	112.93
		For Cement Mortar Lining (CML), Add	75.80	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	136.43	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.85	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392	EA	14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	902.02	121.01
		For Cement Mortar Lining (CML), Add	71.87	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	129.36	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.90	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393	EA	14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	807.76	128.78
		For Cement Mortar Lining (CML), Add	61.26	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	110.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.95	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0394	EA	14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	849.43	136.84
		For Cement Mortar Lining (CML), Add	64.21	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	115.58	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395	EA	16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,091.00	131.68
		For Cement Mortar Lining (CML), Add	89.15	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	160.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	66.86	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0396	EA	16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,069.84	139.75
		For Cement Mortar Lining (CML), Add	85.81	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	154.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.36	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397	EA	16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,050.21	147.54
		For Cement Mortar Lining (CML), Add	82.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	148.80	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.00	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398	EA	16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,139.00	155.59
		For Cement Mortar Lining (CML), Add	90.33	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	162.59	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.74	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0399	EA	16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,267.19	168.92
		For Cement Mortar Lining (CML), Add	101.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	182.03	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.84	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0400	EA	18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,361.13	171.30
		For Cement Mortar Lining (CML), Add	110.16	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	198.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.62	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401	EA	18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,526.08	179.08
		For Cement Mortar Lining (CML), Add	125.47	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	225.85	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.11	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,471.52	187.15
For Cement Mortar Lining (CML), Add	118.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	213.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,560.44	200.46
For Cement Mortar Lining (CML), Add	125.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	226.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.25	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,643.83	219.23
For Cement Mortar Lining (CML), Add	131.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	236.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	98.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,921.40	233.94
For Cement Mortar Lining (CML), Add	156.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	282.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	117.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0406 EA 20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,842.87	241.72
For Cement Mortar Lining (CML), Add	147.66	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	265.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0407 EA 20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,699.95	249.77
For Cement Mortar Lining (CML), Add	132.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	237.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	99.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,710.32	263.10
For Cement Mortar Lining (CML), Add	131.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	236.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	98.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,766.23	281.86
For Cement Mortar Lining (CML), Add	133.92	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	241.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,118.39	313.41
For Cement Mortar Lining (CML), Add	164.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	295.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	123.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,497.52	312.21
For Cement Mortar Lining (CML), Add	202.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	364.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	151.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,568.78	325.55
For Cement Mortar Lining (CML), Add	207.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	373.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	155.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,624.68	344.30
For Cement Mortar Lining (CML), Add	210.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	378.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	157.73	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0414	EA	24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,580.20	375.85
		For Cement Mortar Lining (CML), Add	201.07	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	361.93	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.80	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415	EA	24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,154.20	438.48
		For Cement Mortar Lining (CML), Add	248.98	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	448.17	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	186.74	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416	EA	30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,154.27	388.67
		For Cement Mortar Lining (CML), Add	456.54	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	821.77	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	342.40	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417	EA	30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,382.71	420.22
		For Cement Mortar Lining (CML), Add	474.60	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	854.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	355.95	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0418	EA	30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,214.50	482.85
		For Cement Mortar Lining (CML), Add	448.29	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	806.92	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	336.22	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419	EA	30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,095.07	545.30
		For Cement Mortar Lining (CML), Add	426.89	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	768.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	320.17	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0420	EA	36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,729.49	517.59
		For Cement Mortar Lining (CML), Add	694.53	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,250.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	520.89	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421	EA	36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,392.63	580.03
		For Cement Mortar Lining (CML), Add	551.38	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	992.48	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	413.53	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422	EA	36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,942.91	624.41
		For Cement Mortar Lining (CML), Add	599.68	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,079.43	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	449.76	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423	EA	42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,049.10	442.83
		For Cement Mortar Lining (CML), Add	937.82	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,688.07	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	703.36	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424	EA	42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,010.52	474.38
		For Cement Mortar Lining (CML), Add	929.18	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,672.52	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	696.88	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425	EA	42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,074.00	537.01
		For Cement Mortar Lining (CML), Add	926.03	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,666.86	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	694.53	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0426 EA 42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,242.70	599.46
For Cement Mortar Lining (CML), Add	1,033.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,860.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	775.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0427 EA 42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,271.72	643.82
For Cement Mortar Lining (CML), Add	829.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,493.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	622.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0428 EA 42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,705.29	678.57
For Cement Mortar Lining (CML), Add	867.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,561.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	650.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0429 EA 48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,540.16	473.78
For Cement Mortar Lining (CML), Add	1,282.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,308.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	961.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0430 EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,128.47	505.33
For Cement Mortar Lining (CML), Add	1,236.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,225.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	927.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0431 EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,516.48	567.97
For Cement Mortar Lining (CML), Add	1,165.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,098.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	874.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0432 EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,907.59	630.40
For Cement Mortar Lining (CML), Add	1,195.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,151.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	896.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0433 EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,423.43	674.77
For Cement Mortar Lining (CML), Add	1,440.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,592.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,080.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0434 EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,510.50	709.52
For Cement Mortar Lining (CML), Add	1,243.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,238.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	932.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435 EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,831.98	728.93
For Cement Mortar Lining (CML), Add	1,372.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,470.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,029.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0436 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)		
33 14 13 13-0437 EA 3" Mechanical Joint Ductile Iron Caps	212.14	106.32
For Cement Mortar Lining (CML), Add	5.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	9.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438 EA 4" Mechanical Joint Ductile Iron Caps	242.02	124.74
For Cement Mortar Lining (CML), Add	5.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	9.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.98	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0439	EA	6" Mechanical Joint Ductile Iron Caps	330.50	155.93
		For Cement Mortar Lining (CML), Add	9.43	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	16.97	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.07	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440	EA	8" Mechanical Joint Ductile Iron Caps	427.09	178.22
		For Cement Mortar Lining (CML), Add	15.71	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	28.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.78	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441	EA	10" Mechanical Joint Ductile Iron Caps	605.12	268.50
		For Cement Mortar Lining (CML), Add	19.83	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	35.70	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.87	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442	EA	12" Mechanical Joint Ductile Iron Caps	740.29	292.90
		For Cement Mortar Lining (CML), Add	29.65	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	53.37	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.24	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0443	EA	14" Mechanical Joint Ductile Iron Caps	937.83	322.20
		For Cement Mortar Lining (CML), Add	44.97	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	80.94	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.72	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444	EA	16" Mechanical Joint Ductile Iron Caps	1,145.24	357.95
		For Cement Mortar Lining (CML), Add	60.28	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	108.51	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.21	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0445	EA	18" Mechanical Joint Ductile Iron Caps	1,346.56	402.74
		For Cement Mortar Lining (CML), Add	73.64	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	132.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.23	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0446	EA	20" Mechanical Joint Ductile Iron Caps	1,649.74	460.22
		For Cement Mortar Lining (CML), Add	95.24	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	171.42	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.43	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0447	EA	24" Mechanical Joint Ductile Iron Caps	2,121.38	536.99
		For Cement Mortar Lining (CML), Add	130.78	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	235.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	98.08	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0448	EA	30" Mechanical Joint Ductile Iron Caps	3,966.90	644.39
		For Cement Mortar Lining (CML), Add	299.06	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	538.30	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	224.29	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0449	EA	36" Mechanical Joint Ductile Iron Caps	6,659.59	805.49
		For Cement Mortar Lining (CML), Add	543.92	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	979.05	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	407.94	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0450	EA	42" Mechanical Joint Ductile Iron Caps	9,713.60	966.58
		For Cement Mortar Lining (CML), Add	824.91	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,484.83	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	618.68	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0451 EA 48" Mechanical Joint Ductile Iron Caps	11,566.98	1,073.98
For Cement Mortar Lining (CML), Add	993.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,789.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	745.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0452 Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)		
33 14 13 13-0453 EA 3" Mechanical Joint Ductile Iron Plug.....	220.00	106.32
For Cement Mortar Lining (CML), Add	5.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0454 EA 4" Mechanical Joint Ductile Iron Plug.....	253.80	124.74
For Cement Mortar Lining (CML), Add	6.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0455 EA 6" Mechanical Joint Ductile Iron Plug.....	361.92	155.93
For Cement Mortar Lining (CML), Add	12.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0456 EA 8" Mechanical Joint Ductile Iron Plug.....	458.51	178.22
For Cement Mortar Lining (CML), Add	18.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0457 EA 10" Mechanical Joint Ductile Iron Plug.....	732.76	268.50
For Cement Mortar Lining (CML), Add	32.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0458 EA 12" Mechanical Joint Ductile Iron Plug.....	775.64	292.90
For Cement Mortar Lining (CML), Add	33.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	59.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0459 EA 14" Mechanical Joint Ductile Iron Plug.....	1,163.65	322.20
For Cement Mortar Lining (CML), Add	67.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	121.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0460 EA 16" Mechanical Joint Ductile Iron Plug.....	628.81	357.95
For Cement Mortar Lining (CML), Add	8.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0461 EA 18" Mechanical Joint Ductile Iron Plug.....	1,682.34	402.74
For Cement Mortar Lining (CML), Add	107.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	192.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	80.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0462 EA 20" Mechanical Joint Ductile Iron Plug.....	2,107.25	460.22
For Cement Mortar Lining (CML), Add	140.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	253.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	105.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0463 EA 24" Mechanical Joint Ductile Iron Plug.....	2,769.37	536.99
For Cement Mortar Lining (CML), Add	195.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	352.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	146.68	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,858.38 388.20 698.77 291.15	644.39
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,217.25 599.68 1,079.43 449.76	805.49
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,784.29 831.98 1,497.56 623.98	966.58
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,717.65 1,109.04 1,996.27 831.78	1,073.98
33 14 13 13-0468 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)		
33 14 13 13-0469 EA 3" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	352.85 10.80 19.44 8.10	161.60
33 14 13 13-0470 EA 4" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	411.14 12.76 22.97 9.57	187.12
33 14 13 13-0471 EA 6" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	568.41 21.40 38.53 16.05	233.90
33 14 13 13-0472 EA 8" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	756.49 35.15 63.27 26.36	267.27
33 14 13 13-0473 EA 10" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,028.46 41.83 75.29 31.37	402.74
33 14 13 13-0474 EA 12" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,231.20 56.55 101.79 42.41	439.35
33 14 13 13-0475 EA 14" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,586.42 85.42 153.75 64.06	483.29
33 14 13 13-0476 EA 16" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,895.56 108.19 194.75 81.15	536.99

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0477 EA 18" Mechanical Joint Ductile Iron Long Sleeves	2,299.66	604.11
For Cement Mortar Lining (CML), Add	138.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	249.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	103.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0478 EA 20" Mechanical Joint Ductile Iron Long Sleeves	2,717.10	690.40
For Cement Mortar Lining (CML), Add	167.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	300.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	125.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0479 EA 24" Mechanical Joint Ductile Iron Long Sleeves	3,421.62	805.49
For Cement Mortar Lining (CML), Add	220.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	396.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	165.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480 EA 30" Mechanical Joint Ductile Iron Long Sleeves	6,075.05	966.58
For Cement Mortar Lining (CML), Add	461.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	829.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	345.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0481 EA 36" Mechanical Joint Ductile Iron Long Sleeves	8,304.64	1,208.23
For Cement Mortar Lining (CML), Add	647.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,165.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	485.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0482 EA 42" Mechanical Joint Ductile Iron Long Sleeves	10,749.25	1,379.21
For Cement Mortar Lining (CML), Add	865.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,558.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	649.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0483 EA 48" Mechanical Joint Ductile Iron Long Sleeves	14,605.36	1,610.97
For Cement Mortar Lining (CML), Add	1,216.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,189.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	912.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0484 Mechanical Joint Ductile Iron Gland Packs (33 14 13 13-0002)		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0485 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0484)		
Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0486 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	39.27	
33 14 13 13-0487 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	37.66	
Note: Includes four (4) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0488 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	45.51	
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0489 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	53.35	
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0490 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	73.75	
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0491 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	78.46	
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0492 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	128.67	
Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0493 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	136.52	
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0494 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	182.03	
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0495 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	235.38	
Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0496 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	327.96	
Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0497 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	783.03	
Note: Includes twenty (20) 1" diameter plain finish bolts with nut.		
33 14 13 13-0498 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	1,688.46	
Note: Includes twenty-four (24) 1" diameter plain finish bolts with nut.		
33 14 13 13-0499 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	2,465.21	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with nut.		
33 14 13 13-0500 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	3,025.42	
Note: Includes thirty-two (32) 1-1/4" diameter plain finish bolts with nut.		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 14 13 13-0501	EA	54" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 4,064.23			
		Note: Includes thirty-six (36) 1-1/4" diameter plain finish bolts with nut.			
33 14 13 13-0502	Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts (33 14 13 13-0484)				
		Note: Labor installation is included with pipe fittings or valves.			
33 14 13 13-0503	EA	3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 66.76			
33 14 13 13-0504	EA	4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 53.35			
		Note: Includes four (4) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0505	EA	6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 67.48			
		Note: Includes six (6) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0506	EA	8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 73.75			
		Note: Includes six (6) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0507	EA	10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 102.00			
		Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0508	EA	12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 106.71			
		Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0509	EA	14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 161.63			
		Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0510	EA	16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 177.32			
		Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0511	EA	18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 235.38			
		Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0512	EA	20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 304.42			
		Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0513	EA	24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts 425.25			
		Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0514	Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0484)				
		Note: Labor installation is included with pipe fittings or valves.			
33 14 13 13-0515	EA	3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 43.20			
33 14 13 13-0516	EA	4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 40.80			
		Note: Includes four (4) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0517	EA	6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 48.65			
		Note: Includes six (6) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0518	EA	8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 58.06			
		Note: Includes six (6) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0519	EA	10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 80.03			
		Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0520	EA	12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 84.74			
		Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0521	EA	14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 139.66			
		Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0522	EA	16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 147.50			
		Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0523	EA	18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 199.29			
		Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0524	EA	20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 255.78			
		Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0525	EA	24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 357.78			
		Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.			
33 14 13 13-0526	EA	30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 856.78			
		Note: Includes twenty (20) 1" diameter plain finish bolts with nut.			
33 14 13 13-0527	EA	36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 1,898.73			
		Note: Includes twenty-four (24) 1" diameter plain finish bolts with nut.			
33 14 13 13-0528	EA	42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 2,749.24			
		Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with nut.			
33 14 13 13-0529	EA	48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 3,383.20			
		Note: Includes thirty-two (32) 1-1/4" diameter plain finish bolts with nut.			
33 14 13 13-0530	EA	54" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts 4,152.10			
		Note: Includes thirty-six (36) 1-1/4" diameter plain finish bolts with nut.			
33 14 13 13-0531	Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)				
33 14 13 13-0532	EA	3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters 372.48		161.60	
		For Cement Mortar Lining (CML), Add		12.76	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		22.97	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		9.57	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0533	EA	4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters 420.96		187.12	
		For Cement Mortar Lining (CML), Add		13.75	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		24.74	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		10.31	
		Note: ANSI/AWWA C151/A21.51			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0534 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	544.85	233.90
For Cement Mortar Lining (CML), Add	19.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	34.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0535 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	693.66	267.27
For Cement Mortar Lining (CML), Add	28.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	51.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0536 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,112.89	402.74
For Cement Mortar Lining (CML), Add	50.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	90.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0537 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,309.74	439.35
For Cement Mortar Lining (CML), Add	64.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	115.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0538 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,755.29	483.29
For Cement Mortar Lining (CML), Add	102.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	184.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0539 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,981.96	536.99
For Cement Mortar Lining (CML), Add	116.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	210.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	87.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0540 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,702.20	604.11
For Cement Mortar Lining (CML), Add	178.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	321.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	134.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0541 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,174.62	690.40
For Cement Mortar Lining (CML), Add	212.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	383.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	159.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0542 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,841.83	805.49
For Cement Mortar Lining (CML), Add	262.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	471.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	196.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0543 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	6,289.09	966.58
For Cement Mortar Lining (CML), Add	482.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	868.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	361.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0544 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	8,744.49	1,208.23
For Cement Mortar Lining (CML), Add	691.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,244.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	518.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0545 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	11,731.47	1,380.79
For Cement Mortar Lining (CML), Add	963.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,735.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	722.95	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 14 13 13-0546	EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,513.07 1,207.22 2,173.00 905.42		1,610.97	
33 14 13 13-0547	Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.				
33 14 13 13-0548	EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	219.21		81.06	
33 14 13 13-0549	EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	250.18		96.00	
33 14 13 13-0550	EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	310.33		118.81	
33 14 13 13-0551	EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	386.91		138.66	
33 14 13 13-0552	EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	557.87		201.37	
33 14 13 13-0553	EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	687.53		230.18	
33 14 13 13-0554	EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	800.33		247.75	
33 14 13 13-0555	EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	985.78		268.50	
33 14 13 13-0556	EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,264.63		322.20	
33 14 13 13-0557	EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,492.35		357.83	
33 14 13 13-0558	EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,937.33		412.87	
33 14 13 13-0559	EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,756.97		495.12	
33 14 13 13-0560	EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	4,639.58		619.61	
33 14 13 13-0561	EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	6,844.65		714.93	
33 14 13 13-0562	EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	8,765.38		919.47	
33 14 13 13-0563	Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) (33 14 13 13-0002)				
33 14 13 13-0564	EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,642.51		66.34	
33 14 13 13-0565	EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,834.19		82.93	
33 14 13 13-0566	EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	7,014.73		122.55	
33 14 13 13-0567	EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	9,532.71		145.36	
33 14 13 13-0568	EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	12,015.19		160.73	
33 14 13 13-0569	EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	16,025.61		188.56	
33 14 13 13-0570	EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	19,741.53		211.44	
33 14 13 13-0571	EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	23,355.14		241.64	
33 14 13 13-0572	EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	26,331.11		338.30	
33 14 13 13-0573	EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	35,423.45		422.88	
33 14 13 13-0574	EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	49,083.27		563.84	
33 14 13 13-0575	Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) (33 14 13 13-0002) Note: Includes machined bolts and gasket.				
33 14 13 13-0576	EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	217.65		81.06	
33 14 13 13-0577	EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	279.03		96.00	
33 14 13 13-0578	EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	360.38		118.81	
33 14 13 13-0579	EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	411.45		138.66	
33 14 13 13-0580	EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	721.31		212.63	
33 14 13 13-0581	EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	816.43		243.05	
33 14 13 13-0582	Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) (33 14 13 13-0002) Note: Includes nuts, bolts and gasket.				
33 14 13 13-0583	EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300).....	315.70		81.06	
33 14 13 13-0584	EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	392.48		96.00	
33 14 13 13-0585	EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	542.77		118.81	
33 14 13 13-0586	EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	783.36		138.66	
33 14 13 13-0587	EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	1,135.39		212.63	
33 14 13 13-0588	EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	1,410.76		243.05	
33 14 13 13-0589	EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	2,168.95		261.60	
33 14 13 13-0590	EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	3,036.18		283.51	
33 14 13 13-0591	EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	3,434.96		340.20	
33 14 13 13-0592	EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	3,794.45		377.84	
33 14 13 13-0593	EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	4,589.47		435.96	
33 14 13 13-0594	EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	5,903.02		522.81	
33 14 13 13-0595	EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	8,811.54		654.26	
33 14 13 13-0596	EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	22,943.78		754.90	
33 14 13 13-0597	EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	29,387.87		970.88	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-0598 Mechanical Joint x Restrained Plain End Ductile Iron Flexible Ball Joint (33 14 13 13-0002)

Note: All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.

33 14 13 13-0599	EA	4" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	1,317.63	124.74
33 14 13 13-0600	EA	6" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	2,092.39	155.93
33 14 13 13-0601	EA	8" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	2,773.66	178.22
33 14 13 13-0602	EA	10" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	3,831.66	268.50
33 14 13 13-0603	EA	12" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	5,008.89	292.90
33 14 13 13-0604	EA	14" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	5,800.79	322.20
33 14 13 13-0605	EA	16" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	6,447.79	357.95
33 14 13 13-0606	EA	18" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	9,221.38	402.74
33 14 13 13-0607	EA	20" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	9,423.31	460.22
33 14 13 13-0608	EA	24" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	16,457.74	536.99
33 14 13 13-0609	EA	30" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	57,574.88	644.39
33 14 13 13-0610	EA	36" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	81,742.31	805.49

33 14 13 13-0611 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)

See CSI section 33 14 13 13-0484 for bolts and gaskets.

33 14 13 13-0612 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0611)

33 14 13 13-0613	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	488.36	46.26
33 14 13 13-0614	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	584.48	55.42
33 14 13 13-0615	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	907.19	81.19
33 14 13 13-0616	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,240.63	96.65
33 14 13 13-0617	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,701.78	107.40
33 14 13 13-0618	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,157.91	125.71
33 14 13 13-0619	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,068.63	141.57
33 14 13 13-0620	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,723.58	161.10
33 14 13 13-0621	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,498.61	225.78
33 14 13 13-0622	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,607.10	281.92
33 14 13 13-0623	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	7,928.45	375.89
33 14 13 13-0624	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	12,700.10	402.74
33 14 13 13-0625	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	18,710.34	418.61
33 14 13 13-0626	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	30,832.27	483.29
33 14 13 13-0627	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	40,335.72	513.80

33 14 13 13-0628 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0611)

33 14 13 13-0629	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	466.76	46.26
33 14 13 13-0630	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	547.17	55.42
33 14 13 13-0631	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	842.39	81.19
33 14 13 13-0632	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,140.48	96.65
33 14 13 13-0633	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,489.71	107.40
33 14 13 13-0634	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,967.44	125.71
33 14 13 13-0635	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,660.21	141.57
33 14 13 13-0636	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,185.55	161.10
33 14 13 13-0637	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,766.19	225.78
33 14 13 13-0638	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,572.28	281.92
33 14 13 13-0639	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	6,025.72	375.89
33 14 13 13-0640	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	11,095.83	402.74
33 14 13 13-0641	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	15,346.69	418.61
33 14 13 13-0642	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	22,809.00	483.29
33 14 13 13-0643	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	29,202.11	513.80

33 14 13 13-0644 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0611)

33 14 13 13-0645	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	362.69	46.26
33 14 13 13-0646	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	541.28	55.42
33 14 13 13-0647	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	818.82	81.19
33 14 13 13-0648	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,132.63	96.65
33 14 13 13-0649	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,487.75	107.40
33 14 13 13-0650	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,853.55	125.71
33 14 13 13-0651	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,675.91	141.57
33 14 13 13-0652	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,114.86	161.10
33 14 13 13-0653	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,748.52	225.78
33 14 13 13-0654	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,735.26	281.92
33 14 13 13-0655	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	5,896.13	375.89
33 14 13 13-0656	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	9,872.51	402.74
33 14 13 13-0657	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	13,481.27	418.61
33 14 13 13-0658	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	19,296.12	483.29
33 14 13 13-0659	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	24,711.36	513.80



Utilities		33	CS
Water Utilities		33 10	
Water Utility Transmission and Distribution		33 14	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0660 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0611)				
33 14 13 13-0661	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	362.69	46.26
33 14 13 13-0662	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	649.28	55.42
33 14 13 13-0663	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	826.68	81.19
33 14 13 13-0664	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,097.28	96.65
33 14 13 13-0665	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,483.82	107.40
33 14 13 13-0666	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,800.53	125.71
33 14 13 13-0667	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,882.09	141.57
33 14 13 13-0668	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,211.08	161.10
33 14 13 13-0669	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,306.18	225.78
33 14 13 13-0670	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,566.39	281.92
33 14 13 13-0671	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	5,898.09	375.89
33 14 13 13-0672	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	10,002.11	402.74
33 14 13 13-0673	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	13,110.15	418.61
33 14 13 13-0674	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	18,765.95	483.29
33 14 13 13-0675	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	24,569.98	513.80
33 14 13 13-0676 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0611)				
33 14 13 13-0677	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	427.49	46.26
33 14 13 13-0678	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	629.64	55.42
33 14 13 13-0679	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	981.80	81.19
33 14 13 13-0680	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,334.88	96.65
33 14 13 13-0681	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,839.23	107.40
33 14 13 13-0682	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,309.10	125.71
33 14 13 13-0683	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,154.51	141.57
33 14 13 13-0684	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,486.36	161.10
33 14 13 13-0685	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	7,410.63	225.78
33 14 13 13-0686	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	8,540.72	281.92
33 14 13 13-0687	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	9,232.28	375.89
33 14 13 13-0688 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0611)				
33 14 13 13-0689	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	427.49	46.26
33 14 13 13-0690	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	555.02	55.42
33 14 13 13-0691	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	873.81	81.19
33 14 13 13-0692	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,236.70	96.65
33 14 13 13-0693	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,640.91	107.40
33 14 13 13-0694	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,136.31	125.71
33 14 13 13-0695	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,848.71	141.57
33 14 13 13-0696	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	3,423.15	161.10
33 14 13 13-0697	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,409.19	225.78
33 14 13 13-0698	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,722.42	281.92
33 14 13 13-0699	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,997.71	375.89
33 14 13 13-0700 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee (33 14 13 13-0611)				
33 14 13 13-0701	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	601.95	69.41
33 14 13 13-0702	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	656.59	78.25
33 14 13 13-0703	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	693.15	81.19
33 14 13 13-0704	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	988.50	102.91
33 14 13 13-0705	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,071.51	106.96
33 14 13 13-0706	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,130.11	119.85
33 14 13 13-0707	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,315.27	123.71
33 14 13 13-0708	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,422.96	136.60

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COST
DEMOLITION
UNIT COST

33 14 13 13-0709	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,565.46	145.62
33 14 13 13-0710	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,766.76	133.03
33 14 13 13-0711	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,763.47	145.24
33 14 13 13-0712	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,911.18	153.78
33 14 13 13-0713	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,062.37	161.10
33 14 13 13-0714	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,126.94	148.89
33 14 13 13-0715	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,145.23	161.10
33 14 13 13-0716	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,320.43	169.64
33 14 13 13-0717	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,675.85	176.96
33 14 13 13-0718	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,682.17	185.50
33 14 13 13-0719	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,039.80	187.95
33 14 13 13-0720	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,289.62	196.49
33 14 13 13-0721	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,994.56	203.81
33 14 13 13-0722	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,216.86	212.35
33 14 13 13-0723	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,905.21	225.78
33 14 13 13-0724	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,636.52	225.78
33 14 13 13-0725	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,833.42	233.10
33 14 13 13-0726	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,601.21	241.64
33 14 13 13-0727	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,314.93	248.97
33 14 13 13-0728	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,633.08	262.39
33 14 13 13-0729	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,094.00	281.92
33 14 13 13-0730	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,774.91	289.24
33 14 13 13-0731	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,036.51	296.57
33 14 13 13-0732	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,368.36	303.89
33 14 13 13-0733	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,675.11	312.43
33 14 13 13-0734	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,830.78	325.85
33 14 13 13-0735	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,230.33	344.16
33 14 13 13-0736	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,955.56	375.89
33 14 13 13-0737	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,485.07	413.72
33 14 13 13-0738	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,577.79	422.27
33 14 13 13-0739	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,131.53	429.59
33 14 13 13-0740	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,434.35	438.14
33 14 13 13-0741	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,497.74	451.56
33 14 13 13-0742	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,414.23	469.86
33 14 13 13-0743	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,205.72	501.60
33 14 13 13-0744	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,988.93	563.84
33 14 13 13-0745	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,656.08	538.21
33 14 13 13-0746	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,719.35	547.97
33 14 13 13-0747	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,841.09	554.07
33 14 13 13-0748	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,022.16	562.61
33 14 13 13-0749	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,990.77	576.04
33 14 13 13-0750	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,335.34	594.35
33 14 13 13-0751	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,264.28	626.08
33 14 13 13-0752	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,594.80	689.54
33 14 13 13-0753	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,933.42	751.78
33 14 13 13-0754	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,668.12	627.30
33 14 13 13-0755	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,106.96	635.85
33 14 13 13-0756	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,741.21	643.17
33 14 13 13-0757	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,377.84	651.71
33 14 13 13-0758	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,281.66	665.13
33 14 13 13-0759	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,256.53	684.81
33 14 13 13-0760	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,190.44	715.17
33 14 13 13-0761	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,169.49	777.41
33 14 13 13-0762	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,760.89	839.66
33 14 13 13-0763	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,628.21	884.81
33 14 13 13-0764	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,038.92	705.41
33 14 13 13-0765	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,476.29	712.73
33 14 13 13-0766	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,252.33	721.27
33 14 13 13-0767	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,800.74	734.70
33 14 13 13-0768	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,351.46	753.00
33 14 13 13-0769	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,412.49	784.74
33 14 13 13-0770	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,522.56	846.98
33 14 13 13-0771	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	19,417.80	909.22
33 14 13 13-0772	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,935.61	988.55
33 14 13 13-0773	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,283.17	988.55
33 14 13 13-0774	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,818.25	760.32
33 14 13 13-0775	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,398.08	772.53
33 14 13 13-0776	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	32,336.55	792.06
33 14 13 13-0777	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,865.29	823.79
33 14 13 13-0778	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,960.18	886.03
33 14 13 13-0779	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	30,555.27	948.27
33 14 13 13-0780	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,099.67	993.43
33 14 13 13-0781	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	38,547.23	1,027.60
33 14 13 13-0782	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	40,634.50	1,047.13
33 14 13 13-0783	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,612.89	821.35
33 14 13 13-0784	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	34,216.28	834.77
33 14 13 13-0785	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,073.33	854.30
33 14 13 13-0786	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,943.88	884.81
33 14 13 13-0787	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,867.43	948.27
33 14 13 13-0788	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	37,071.99	1,010.52
33 14 13 13-0789	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	39,807.76	1,054.45



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0790	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,992.25		1,089.84
33 14 13 13-0791	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	40,143.12		1,109.37
33 14 13 13-0792	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	53,513.04		1,139.88
33 14 13 13-0793 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0611)					
33 14 13 13-0794	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	675.18		77.56
33 14 13 13-0795	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	743.91		77.56
33 14 13 13-0796	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	873.81		81.19
33 14 13 13-0797	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	962.97		102.91
33 14 13 13-0798	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,075.43		106.96
33 14 13 13-0799	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,316.65		119.85
33 14 13 13-0800	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,733.51		123.71
33 14 13 13-0801	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,595.76		136.60
33 14 13 13-0802	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,795.20		145.62
33 14 13 13-0803	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,550.24		133.03
33 14 13 13-0804	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,654.94		145.24
33 14 13 13-0805	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,971.52		153.78
33 14 13 13-0806	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,244.46		161.10
33 14 13 13-0807	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,114.64		148.89
33 14 13 13-0808	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,533.50		161.10
33 14 13 13-0809	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,185.85		169.64
33 14 13 13-0810	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,187.83		176.96
33 14 13 13-0811	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,860.33		185.50
33 14 13 13-0812	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,594.97		187.95
33 14 13 13-0813	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,286.60		196.49
33 14 13 13-0814	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,977.27		203.81
33 14 13 13-0815	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,484.29		212.35
33 14 13 13-0816	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,288.50		225.78
33 14 13 13-0817	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,777.48		225.78
33 14 13 13-0818	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,280.59		233.10
33 14 13 13-0819	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,276.16		241.64
33 14 13 13-0820	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,474.89		248.97
33 14 13 13-0821	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,030.63		262.39
33 14 13 13-0822	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,587.78		281.92
33 14 13 13-0823	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,777.78		289.24
33 14 13 13-0824	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,314.29		296.57
33 14 13 13-0825	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,832.67		303.89
33 14 13 13-0826	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,394.69		312.43
33 14 13 13-0827	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,477.72		325.85
33 14 13 13-0828	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,570.94		344.16
33 14 13 13-0829	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,752.79		375.89
33 14 13 13-0830	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,963.13		413.72
33 14 13 13-0831	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,138.33		422.27
33 14 13 13-0832	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,974.82		429.59
33 14 13 13-0833	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,803.89		438.14
33 14 13 13-0834	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,892.80		451.56
33 14 13 13-0835	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,995.84		469.86
33 14 13 13-0836	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,626.31		501.60
33 14 13 13-0837	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,920.05		563.84
33 14 13 13-0838	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,642.71		538.21
33 14 13 13-0839	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,766.86		546.75
33 14 13 13-0840	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,933.23		554.07
33 14 13 13-0841	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,461.86		562.61
33 14 13 13-0842	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,310.16		576.04
33 14 13 13-0843	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	14,836.82		594.35
33 14 13 13-0844	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,642.05		626.08
33 14 13 13-0845	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,284.26		689.54
33 14 13 13-0846	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,075.58		751.78
33 14 13 13-0847	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,421.85		627.30
33 14 13 13-0848	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,967.10		635.85
33 14 13 13-0849	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	24,331.81		643.17
33 14 13 13-0850	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	25,698.91		651.71
33 14 13 13-0851	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,635.58		665.13
33 14 13 13-0852	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	29,715.95		683.44
33 14 13 13-0853	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	30,451.01		715.17
33 14 13 13-0854	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	31,506.11		777.41
33 14 13 13-0855	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	32,985.06		839.66
33 14 13 13-0856	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,777.77		884.81
33 14 13 13-0857	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	39,519.93		721.27
33 14 13 13-0858	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	41,085.49		734.70
33 14 13 13-0859	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	42,639.61		753.00
33 14 13 13-0860	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	45,642.64		784.74
33 14 13 13-0861	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	48,704.53		846.98
33 14 13 13-0862	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	54,057.67		909.22
33 14 13 13-0863	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	60,626.38		954.38
33 14 13 13-0864	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	72,513.64		988.55
33 14 13 13-0865	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	63,790.81		886.03
33 14 13 13-0866	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	65,340.45		948.27
33 14 13 13-0867	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	69,817.93		993.43

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0868	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	79,957.59	1,027.60	
33 14 13 13-0869	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	94,484.27	1,047.13	
33 14 13 13-0870	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	62,851.75	948.27	
33 14 13 13-0871	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	71,252.38	1,010.52	
33 14 13 13-0872	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	75,963.53	1,054.45	
33 14 13 13-0873	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	86,713.85	1,089.84	
33 14 13 13-0874	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	113,719.21	1,109.37	
33 14 13 13-0875	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	124,933.10	1,139.88	
33 14 13 13-0876 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee (33 14 13 13-0611)					
33 14 13 13-0877	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,202.76	119.85	
33 14 13 13-0878	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,497.58	136.60	
33 14 13 13-0879	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,156.19	145.24	
33 14 13 13-0880	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,482.97	161.10	
33 14 13 13-0881	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,289.18	187.95	
33 14 13 13-0882	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,007.75	225.78	
33 14 13 13-0883	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,725.82	289.24	
33 14 13 13-0884	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	6,347.09	413.72	
33 14 13 13-0885	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	7,400.49	538.21	
33 14 13 13-0886	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	13,511.94	627.30	
33 14 13 13-0887 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross (33 14 13 13-0611)					
33 14 13 13-0888	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	668.42	92.54	
33 14 13 13-0889	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	837.88	100.70	
33 14 13 13-0890	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,052.02	101.81	
33 14 13 13-0891	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,112.16	126.21	
33 14 13 13-0892	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,303.84	136.60	
33 14 13 13-0893	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,435.89	170.10	
33 14 13 13-0894	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,384.06	149.48	
33 14 13 13-0895	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,629.99	182.99	
33 14 13 13-0896	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,610.08	195.87	
33 14 13 13-0897	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,630.15	156.21	
33 14 13 13-0898	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,824.26	187.95	
33 14 13 13-0899	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,172.47	200.15	
33 14 13 13-0900	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,353.91	214.79	
33 14 13 13-0901	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,102.07	169.64	
33 14 13 13-0902	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,431.69	201.37	
33 14 13 13-0903	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,640.48	213.57	
33 14 13 13-0904	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,085.04	228.22	
33 14 13 13-0905	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,527.53	241.64	
33 14 13 13-0906	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,654.08	220.90	
33 14 13 13-0907	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,340.03	233.10	
33 14 13 13-0908	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,442.94	248.97	
33 14 13 13-0909	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,689.06	261.17	
33 14 13 13-0910	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,198.67	281.92	
33 14 13 13-0911	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,089.50	250.18	
33 14 13 13-0912	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,685.12	261.17	
33 14 13 13-0913	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,659.85	277.04	
33 14 13 13-0914	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,334.05	290.46	
33 14 13 13-0915	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,705.69	309.99	
33 14 13 13-0916	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,038.98	338.06	
33 14 13 13-0917	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,096.06	295.35	
33 14 13 13-0918	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,509.07	307.54	
33 14 13 13-0919	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,861.34	322.20	
33 14 13 13-0920	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,543.38	335.61	
33 14 13 13-0921	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,019.09	355.14	
33 14 13 13-0922	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,656.75	383.21	
33 14 13 13-0923	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,120.46	429.59	
33 14 13 13-0924	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,922.27	371.01	
33 14 13 13-0925	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,339.20	381.99	
33 14 13 13-0926	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,622.75	397.86	
33 14 13 13-0927	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,298.91	411.28	
33 14 13 13-0928	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,462.92	430.81	
33 14 13 13-0929	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,744.11	458.88	
33 14 13 13-0930	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,207.82	504.03	
33 14 13 13-0931	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,244.65	579.70	
33 14 13 13-0932	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,224.50	463.77	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 14 13 13-0933	EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,508.28	475.96		
33 14 13 13-0934	EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,989.78	490.61		
33 14 13 13-0935	EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,404.78	504.03		
33 14 13 13-0936	EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,631.62	523.56		
33 14 13 13-0937	EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,137.73	551.63		
33 14 13 13-0938	EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,882.09	598.01		
33 14 13 13-0939	EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,850.19	672.46		
33 14 13 13-0940	EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,836.82	765.21		
33 14 13 13-0941	EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,994.73	616.32		
33 14 13 13-0942	EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,370.56	630.96		
33 14 13 13-0943	EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,740.41	644.39		
33 14 13 13-0944	EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,175.39	663.92		
33 14 13 13-0945	EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,671.67	693.20		
33 14 13 13-0946	EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,243.39	738.36		
33 14 13 13-0947	EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,958.19	812.81		
33 14 13 13-0948	EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,345.23	906.78		
33 14 13 13-0949	EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	32,589.63	1,047.13		
33 14 13 13-0950	EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,672.43	667.57		
33 14 13 13-0951	EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,044.34	682.22		
33 14 13 13-0952	EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,365.08	695.64		
33 14 13 13-0953	EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,745.10	716.39		
33 14 13 13-0954	EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,188.35	744.46		
33 14 13 13-0955	EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,707.05	789.62		
33 14 13 13-0956	EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,372.76	865.28		
33 14 13 13-0957	EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,564.12	958.03		
33 14 13 13-0958	EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,331.59	1,098.38		
33 14 13 13-0959	EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,461.06	1,150.87		
33 14 13 13-0960	EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	35,944.31	726.16		
33 14 13 13-0961	EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	36,691.52	745.68		
33 14 13 13-0962	EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,121.03	774.97		
33 14 13 13-0963	EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,714.34	820.13		
33 14 13 13-0964	EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	38,786.51	895.80		
33 14 13 13-0965	EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,073.57	988.55		
33 14 13 13-0966	EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,955.99	1,128.89		
33 14 13 13-0967	EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	65,497.89	1,180.16		
33 14 13 13-0968	EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	70,230.43	1,210.67		
33 14 13 13-0969	EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	48,715.26	845.75		
33 14 13 13-0970	EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,032.44	865.28		
33 14 13 13-0971	EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,456.07	893.35		
33 14 13 13-0972	EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,907.99	938.51		
33 14 13 13-0973	EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	50,503.02	1,014.17		
33 14 13 13-0974	EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	51,551.05	1,106.93		
33 14 13 13-0975	EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	54,493.56	1,247.28		
33 14 13 13-0976	EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	66,968.34	1,299.76		
33 14 13 13-0977	EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	86,398.42	1,330.27		
33 14 13 13-0978	EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	91,986.52	1,448.65		
33 14 13 13-0979 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0611)					
33 14 13 13-0980	EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	478.83	50.34		
33 14 13 13-0981	EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	670.95	63.11		
33 14 13 13-0982	EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	738.02	67.01		
33 14 13 13-0983	EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	970.95	76.03		
33 14 13 13-0984	EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,007.82	88.92		
33 14 13 13-0985	EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,190.58	79.33		
33 14 13 13-0986	EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,244.23	91.53		
33 14 13 13-0987	EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,293.75	100.07		
33 14 13 13-0988	EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,377.54	87.87		
33 14 13 13-0989	EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,523.48	100.07		
33 14 13 13-0990	EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,547.47	107.40		
33 14 13 13-0991	EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,616.21	115.94		
33 14 13 13-0992	EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,391.95	113.50		
33 14 13 13-0993	EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,404.17	120.82		
33 14 13 13-0994	EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,088.03	129.36		
33 14 13 13-0995	EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,129.69	136.68		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0996	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,868.06	131.81
33 14 13 13-0997	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,780.14	140.35
33 14 13 13-0998	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,607.34	147.67
33 14 13 13-0999	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,574.39	155.00
33 14 13 13-1000	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,912.69	168.42
33 14 13 13-1001	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,112.66	170.86
33 14 13 13-1002	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,513.24	179.40
33 14 13 13-1003	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,352.65	186.72
33 14 13 13-1004	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,012.98	200.15
33 14 13 13-1005	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,505.33	219.68
33 14 13 13-1006	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,144.20	234.32
33 14 13 13-1007	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,175.62	241.64
33 14 13 13-1008	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,787.26	250.18
33 14 13 13-1009	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,781.92	263.61
33 14 13 13-1010	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,684.66	281.92
33 14 13 13-1011	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,362.79	313.65
33 14 13 13-1012	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,217.11	312.43
33 14 13 13-1013	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,292.29	325.85
33 14 13 13-1014	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,383.53	344.16
33 14 13 13-1015	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,293.89	375.89
33 14 13 13-1016	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,105.50	438.14
33 14 13 13-1017	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,554.70	388.10
33 14 13 13-1018	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,957.90	419.82
33 14 13 13-1019	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,577.62	483.29
33 14 13 13-1020	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,089.56	545.53
33 14 13 13-1021	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,601.18	517.46
33 14 13 13-1022	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,692.39	579.70
33 14 13 13-1023	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,482.23	624.86
33 14 13 13-1024	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	18,710.54	443.02
33 14 13 13-1025	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	18,593.41	474.75
33 14 13 13-1026	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	18,627.44	536.99
33 14 13 13-1027	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	19,348.44	599.23
33 14 13 13-1028	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,779.09	644.39
33 14 13 13-1029	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,511.13	678.56
33 14 13 13-1030	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	23,597.72	473.53
33 14 13 13-1031	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	22,824.72	505.25
33 14 13 13-1032	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	21,659.00	567.50
33 14 13 13-1033	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	22,281.82	630.96
33 14 13 13-1034	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	26,718.06	674.89
33 14 13 13-1035	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	23,079.12	709.07
33 14 13 13-1036	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	25,394.18	728.60



		Utilities	33	CS
		Water Utilities	33 10	
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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1037 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps (33 14 13 13-0611)			
33 14 13 13-1038	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	430.10	106.32
33 14 13 13-1039	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	518.88	125.00
33 14 13 13-1040	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	762.49	155.93
33 14 13 13-1041	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,025.99	177.84
33 14 13 13-1042	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,359.15	268.50
33 14 13 13-1043	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,720.13	292.90
33 14 13 13-1044	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,956.94	322.20
33 14 13 13-1045	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,386.23	357.59
33 14 13 13-1046	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,797.66	402.74
33 14 13 13-1047	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	3,377.70	460.10
33 14 13 13-1048	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	4,338.28	536.99
33 14 13 13-1049	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	7,917.67	644.39
33 14 13 13-1050	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	13,013.80	805.49
33 14 13 13-1051	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	18,783.47	966.58
33 14 13 13-1052	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	22,376.60	1,073.98
33 14 13 13-1053 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug (33 14 13 13-0611)			
33 14 13 13-1054	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	432.07	106.32
33 14 13 13-1055	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	538.52	125.00
33 14 13 13-1056	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	813.55	155.93
33 14 13 13-1057	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,077.04	177.84
33 14 13 13-1058	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,651.72	268.50
33 14 13 13-1059	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,786.89	292.90
33 14 13 13-1060	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,383.04	322.20
33 14 13 13-1061	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,879.09	357.59
33 14 13 13-1062	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,427.98	402.74
33 14 13 13-1063	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,229.91	460.10
33 14 13 13-1064	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	5,551.79	536.99
33 14 13 13-1065	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	9,594.58	644.39
33 14 13 13-1066	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	14,056.47	805.49
33 14 13 13-1067	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	18,915.03	966.58
33 14 13 13-1068	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	25,166.88	1,073.98
33 14 13 13-1069 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0611)			
33 14 13 13-1070	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	584.55	161.60
33 14 13 13-1071	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	776.37	186.86
33 14 13 13-1072	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,071.09	234.53
33 14 13 13-1073	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,412.34	266.76
33 14 13 13-1074	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,078.98	402.74
33 14 13 13-1075	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,487.90	439.35
33 14 13 13-1076	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,265.29	483.29
33 14 13 13-1077	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,707.97	536.99
33 14 13 13-1078	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	4,877.86	604.11
33 14 13 13-1079	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	5,658.58	690.77
33 14 13 13-1080	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	6,853.99	805.49
33 14 13 13-1081	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	10,821.07	966.58
33 14 13 13-1082	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	14,733.47	1,208.23
33 14 13 13-1083	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	20,080.71	1,380.31
33 14 13 13-1084	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	24,971.21	1,610.97
33 14 13 13-1085 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0611)			
33 14 13 13-1086	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	608.12	161.60
33 14 13 13-1087	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	746.92	186.86
33 14 13 13-1088	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,104.48	234.53
33 14 13 13-1089	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,502.66	266.76
33 14 13 13-1090	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,953.31	402.74
33 14 13 13-1091	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,370.08	439.35

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1092	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,013.95	483.29
33 14 13 13-1093	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,574.44	536.99
33 14 13 13-1094	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,273.08	604.11
33 14 13 13-1095	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,977.21	690.77
33 14 13 13-1096	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	6,229.56	805.49
33 14 13 13-1097	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	10,497.08	966.58
33 14 13 13-1098	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	13,651.52	1,208.23
33 14 13 13-1099	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	17,796.61	1,379.09
33 14 13 13-1100	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	26,493.00	1,610.97
33 14 13 13-1101		Push-On Joint Ductile Iron Piping And Gaskets (33 14 13 13-0001)		
33 14 13 13-1102		Push-On Joint Ductile Iron Pipe (33 14 13 13-1101)		
		Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-1103	LF	4", Class 50, Push-On Joint Ductile Iron Pipe.....	39.03	10.63
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	16.04	
		For Cement Mortar Lining (CML), Add	2.29	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	12.38	
		For Fusion Bonded Epoxy Lining (206N), Add	4.13	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.72	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	10.89	
		For >1,000, Deduct	-1.95	
		For Class 51, Add	3.33	
		For Class 52, Add	7.17	
		For Class 53, Add	12.89	
		For Class 54, Add	18.37	
		For Class 55, Add	21.14	
		For Class 56, Add	23.86	
33 14 13 13-1104	LF	6", Class 50, Push-On Joint Ductile Iron Pipe.....	42.81	11.73
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.61	
		For Cement Mortar Lining (CML), Add	2.52	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	13.58	
		For Fusion Bonded Epoxy Lining (206N), Add	4.53	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.89	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	11.95	
		For >1,000, Deduct	-2.14	
		For Class 51, Add	3.65	
		For Class 52, Add	7.86	
		For Class 53, Add	14.14	
		For Class 54, Add	20.16	
		For Class 55, Add	23.20	
		For Class 56, Add	26.19	
33 14 13 13-1105	LF	8", Class 50, Push-On Joint Ductile Iron Pipe.....	53.70	12.89
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.06	
		For Cement Mortar Lining (CML), Add	3.44	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	18.56	
		For Fusion Bonded Epoxy Lining (206N), Add	6.19	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.58	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	16.33	
		For >1,000, Deduct	-2.69	
		For Class 51, Add	4.93	
		For Class 52, Add	10.63	
		For Class 53, Add	19.14	
		For Class 54, Add	27.31	
		For Class 55, Add	31.40	
		For Class 56, Add	35.42	
33 14 13 13-1106	LF	10", Class 50, Push-On Joint Ductile Iron Pipe.....	75.95	18.18
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	29.09	
		For Cement Mortar Lining (CML), Add	4.85	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	24.25	
		For Fusion Bonded Epoxy Lining (206N), Add	8.73	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.64	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	23.03	
		For >1,000, Deduct	-3.80	
		For Class 51, Add	6.95	
		For Class 52, Add	15.00	
		For Class 53, Add	27.02	
		For Class 54, Add	38.54	
		For Class 55, Add	44.31	
		For Class 56, Add	49.99	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1107 LF 12", Class 50, Push-On Joint Ductile Iron Pipe.....	88.32	20.14
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	28.91	
For Cement Mortar Lining (CML), Add	5.78	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.12	
For Fusion Bonded Epoxy Lining (206N), Add	10.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.34	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Pipe, Add	27.46	
For >1,000, Deduct	-4.42	
For Class 51, Add	8.26	
For Class 52, Add	17.82	
For Class 53, Add	32.12	
For Class 54, Add	45.83	
For Class 55, Add	52.69	
For Class 56, Add	59.43	
33 14 13 13-1108 LF 14", Class 50, Push-On Joint Ductile Iron Pipe.....	107.98	22.70
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	32.42	
For Cement Mortar Lining (CML), Add	7.37	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	25.05	
For Fusion Bonded Epoxy Lining (206N), Add	13.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.53	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Pipe, Add	35.00	
For >1,000, Deduct	-5.40	
For Class 51, Add	10.47	
For Class 52, Add	22.60	
For Class 53, Add	40.78	
For Class 54, Add	58.19	
For Class 55, Add	66.88	
For Class 56, Add	75.41	
33 14 13 13-1109 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	128.15	25.87
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	36.48	
For Cement Mortar Lining (CML), Add	8.90	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	27.58	
For Fusion Bonded Epoxy Lining (206N), Add	16.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.67	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Pipe, Add	42.26	
For >1,000, Deduct	-6.41	
For Class 51, Add	12.62	
For Class 52, Add	27.23	
For Class 53, Add	49.15	
For Class 54, Add	70.15	
For Class 55, Add	80.61	
For Class 56, Add	90.89	
33 14 13 13-1110 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	149.09	30.27
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	42.37	
For Cement Mortar Lining (CML), Add	10.33	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	32.03	
For Fusion Bonded Epoxy Lining (206N), Add	18.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.75	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Pipe, Add	49.08	
For >1,000, Deduct	-7.45	
For Class 51, Add	14.66	
For Class 52, Add	31.64	
For Class 53, Add	57.09	
For Class 54, Add	81.48	
For Class 55, Add	93.64	
For Class 56, Add	105.57	
33 14 13 13-1111 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	171.81	36.25
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	44.42	
For Cement Mortar Lining (CML), Add	11.69	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	32.73	
For Fusion Bonded Epoxy Lining (206N), Add	21.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.77	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Pipe, Add	55.52	
For >1,000, Deduct	-8.59	
For Class 51, Add	16.62	
For Class 52, Add	35.87	
For Class 53, Add	64.70	
For Class 54, Add	92.33	
For Class 55, Add	106.12	
For Class 56, Add	119.66	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1112 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	217.43	45.28
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	46.10	
For Cement Mortar Lining (CML), Add	14.87	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	31.23	
For Fusion Bonded Epoxy Lining (206N), Add	26.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.15	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Pipe, Add	70.64	
For >1,000, Deduct	-10.87	
For Class 51, Add	21.13	
For Class 52, Add	45.61	
For Class 53, Add	82.28	
For Class 54, Add	117.41	
For Class 55, Add	134.94	
For Class 56, Add	152.16	
33 14 13 13-1113 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	258.32	48.33
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	57.38	
For Cement Mortar Lining (CML), Add	18.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.88	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-12.92	
For Class 51, Add	26.14	
For Class 52, Add	56.45	
For Class 53, Add	101.94	
For Class 54, Add	145.52	
For Class 55, Add	167.19	
For Class 56, Add	188.46	
33 14 13 13-1114 LF 36", Class 50, Push-On Joint Ductile Iron Pipe.....	321.54	51.38
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	75.54	
For Cement Mortar Lining (CML), Add	24.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	43.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.28	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-16.08	
For Class 51, Add	34.19	
For Class 52, Add	73.85	
For Class 53, Add	133.50	
For Class 54, Add	190.64	
For Class 55, Add	218.93	
For Class 56, Add	246.71	
33 14 13 13-1115 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....	393.09	54.43
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	96.32	
For Cement Mortar Lining (CML), Add	31.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	55.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.30	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-19.65	
For Class 51, Add	43.38	
For Class 52, Add	93.75	
For Class 53, Add	169.60	
For Class 54, Add	242.25	
For Class 55, Add	278.11	
For Class 56, Add	313.32	
33 14 13 13-1116 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....	474.37	57.36
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	120.08	
For Cement Mortar Lining (CML), Add	38.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	69.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.05	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-23.72	
For Class 51, Add	53.88	
For Class 52, Add	116.48	
For Class 53, Add	210.84	
For Class 54, Add	301.22	
For Class 55, Add	345.73	
For Class 56, Add	389.42	



Utilities			33	CS
Water Utilities			33 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1117 LF 54", Class 50, Push-On Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	603.20 158.62 51.17 92.10 38.38 -30.16 70.88 153.28 277.64 396.72 455.22 512.65	60.42
33 14 13 13-1118 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1101)		
33 14 13 13-1119 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	300.50 23.76 42.77 17.82 142.57	41.50
33 14 13 13-1120 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	435.32 34.25 61.66 25.69 205.52	61.21
33 14 13 13-1121 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	585.31 47.51 85.52 35.63 285.08	72.68
33 14 13 13-1122 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	884.38 71.83 129.29 53.87 430.97	80.30
33 14 13 13-1123 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	1,145.03 95.03 171.06 71.27 570.19	94.22
33 14 13 13-1124 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	2,302.68 208.42 375.15 156.31 1,250.50	105.69
33 14 13 13-1125 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	2,602.56 235.29 423.53 176.47 1,411.75	120.82
33 14 13 13-1126 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	4,062.60 371.31 668.36 278.48 2,227.87	169.15

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1127	EA	20" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	4,562.40 413.60 744.49 310.20 2,481.62	213.21
33 14 13 13-1128	EA	24" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	5,696.72 516.38 929.48 387.28 3,098.26	266.54
33 14 13 13-1129		Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1101)		
33 14 13 13-1130	EA	4" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	246.46 18.36 33.04 13.77 110.15	41.50
33 14 13 13-1131	EA	6" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	362.66 26.99 48.58 20.24 161.93	61.21
33 14 13 13-1132	EA	8" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	507.14 39.70 71.45 29.77 238.18	72.68
33 14 13 13-1133	EA	10" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	776.46 61.04 109.87 45.78 366.22	80.30
33 14 13 13-1134	EA	12" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	1,007.51 81.28 146.30 60.96 487.67	94.22
33 14 13 13-1135	EA	14" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	1,443.95 122.54 220.58 91.91 735.26	105.69
33 14 13 13-1136	EA	16" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	2,152.91 190.33 342.59 142.75 1,141.96	120.82
33 14 13 13-1137	EA	18" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add	2,462.99 211.35 380.43 158.51 1,268.10	169.15



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1138	EA	20" 45 Degree Elbow, Push-On Joint Ductile Iron	3,467.21	213.21
		For Cement Mortar Lining (CML), Add	304.08	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	547.35	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	228.06	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	1,824.50	
33 14 13 13-1139	EA	24" 45 Degree Elbow, Push-On Joint Ductile Iron	4,301.82	266.54
		For Cement Mortar Lining (CML), Add	376.89	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	678.39	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	282.66	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	2,261.32	
33 14 13 13-1140 Push-On Joint Ductile Iron Tee (33 14 13 13-1101)				
33 14 13 13-1141	EA	4" Tee, Push-On Joint Ductile Iron	460.20	61.21
		For Cement Mortar Lining (CML), Add	36.74	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	66.14	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.56	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	220.45	
33 14 13 13-1142	EA	6" Tee, Push-On Joint Ductile Iron	639.10	89.95
		For Cement Mortar Lining (CML), Add	50.28	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	90.50	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.71	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	301.66	
33 14 13 13-1143	EA	8" Tee, Push-On Joint Ductile Iron	878.09	109.02
		For Cement Mortar Lining (CML), Add	71.28	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	128.30	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.46	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	427.65	
33 14 13 13-1144	EA	10" Tee, Push-On Joint Ductile Iron.....	1,304.63	122.04
		For Cement Mortar Lining (CML), Add	112.16	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	201.88	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.12	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	672.94	
33 14 13 13-1145	EA	12" Tee, Push-On Joint Ductile Iron.....	1,627.95	140.71
		For Cement Mortar Lining (CML), Add	141.44	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	254.59	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.08	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	848.63	
33 14 13 13-1146	EA	14" Tee, Push-On Joint Ductile Iron.....	2,642.12	169.15
		For Cement Mortar Lining (CML), Add	238.58	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	429.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	178.94	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	1,431.50	
33 14 13 13-1147	EA	16" Tee, Push-On Joint Ductile Iron.....	3,830.54	211.50
		For Cement Mortar Lining (CML), Add	351.02	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	631.83	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	263.26	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	2,106.11	
33 14 13 13-1148	EA	18" Tee, Push-On Joint Ductile Iron.....	4,808.86	282.16
		For Cement Mortar Lining (CML), Add	438.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	788.64	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	328.60	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	2,628.80	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1149 EA 20" Tee, Push-On Joint Ductile Iron.....	5,662.71	344.28
For Cement Mortar Lining (CML), Add	514.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	925.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	385.58	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Fitting, Add	3,084.66	
33 14 13 13-1150 EA 24" Tee, Push-On Joint Ductile Iron.....	7,423.98	430.32
For Cement Mortar Lining (CML), Add	677.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,218.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	507.90	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Fitting, Add	4,063.22	
33 14 13 13-1151 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1101)		
33 14 13 13-1152 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron.....	469.52	143.94
For Cement Mortar Lining (CML), Add	25.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1153 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron.....	574.76	178.22
For Cement Mortar Lining (CML), Add	30.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	54.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1154 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron.....	753.10	207.86
For Cement Mortar Lining (CML), Add	43.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1155 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,029.09	302.06
For Cement Mortar Lining (CML), Add	57.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	102.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1156 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,246.85	345.26
For Cement Mortar Lining (CML), Add	72.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	130.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1157 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,439.47	371.75
For Cement Mortar Lining (CML), Add	87.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	157.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1158 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,714.98	402.74
For Cement Mortar Lining (CML), Add	110.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	198.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1159 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron.....	2,027.49	483.29
For Cement Mortar Lining (CML), Add	129.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	233.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	97.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1160 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron.....	2,356.49	536.99
For Cement Mortar Lining (CML), Add	154.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	277.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	115.72	
Note: ANSI/AWWA C151/A21.51		



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		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1161 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,957.85 201.91 363.43 151.43	619.61
33 14 13 13-1162 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,750.19 362.36 652.26 271.77	743.48
33 14 13 13-1163 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,578.51 517.03 930.66 387.77	929.35
33 14 13 13-1164 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,322.13 669.49 1,205.08 502.12	1,073.98
33 14 13 13-1165 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,620.97 852.88 1,535.19 639.66	1,380.79
33 14 13 13-1166 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,908.63 1,046.71 1,884.08 785.03	1,611.33
33 14 13 13-1167 Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1101) Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-1168 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1169 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1170 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1171 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1172 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1173 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1174 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1175 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1176 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1177 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1178 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1179 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1180 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1181 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron 33 14 13 13-1182 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	59.58 77.73 101.10 120.17 143.34 181.75 214.65 242.27 282.23 340.81 439.02 575.67 712.76 841.81 1,168.38	22.41 29.24 29.87 31.72 35.23 39.64 45.30 49.09 58.89 61.17 67.97 73.61 80.54 90.62 98.27
33 14 13 13-1183 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1101)		
33 14 13 13-1184 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400) 33 14 13 13-1185 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600) 33 14 13 13-1186 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800) 33 14 13 13-1187 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000) 33 14 13 13-1188 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200) 33 14 13 13-1189 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400) 33 14 13 13-1190 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600) 33 14 13 13-1191 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800) 33 14 13 13-1192 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000) 33 14 13 13-1193 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400) 33 14 13 13-1194 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000) 33 14 13 13-1195 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600) 33 14 13 13-1196 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200) 33 14 13 13-1197 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800)	257.56 339.19 436.21 654.81 811.97 1,393.06 1,591.68 1,808.59 2,455.09 3,129.73 5,383.55 7,629.75 13,827.47 17,883.63	82.38 100.56 122.65 149.62 182.46 222.60 271.67 331.35 404.33 493.18 601.79 734.09 895.67 1,092.65
33 14 13 13-1198 Ductile Iron Pipe Repair (33 14 13 13-0001) See CSI section 33 14 13 13-0002 for mechanical joint fittings.		

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1199	Ductile Iron Pipe Repair (33 14 13 13-1198)			
	Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.			
33 14 13 13-1200	EA	30" Diameter Mechanical Ductile Iron Push Joint	4,472.00	
33 14 13 13-1201	EA	36" Diameter Mechanical Ductile Iron Push Joint	5,712.31	
33 14 13 13-1202	EA	42" Diameter Mechanical Ductile Iron Push Joint	7,330.42	
33 14 13 13-1203	EA	48" Diameter Mechanical Ductile Iron Push Joint	9,230.46	
33 14 13 13-1204	EA	54" Diameter Mechanical Ductile Iron Push Joint	13,481.84	
33 14 13 13-1205	WEKO Seals (33 14 13 13-1198)			
	Note: Internal joint seal.			
33 14 13 13-1206	EA	16" WEKO Internal Joint Seal	2,653.71	234.80
		For Extra Wide Seals, Add	87.79	
33 14 13 13-1207	EA	18" WEKO Internal Joint Seal	2,828.00	247.94
		For Extra Wide Seals, Add	88.79	
33 14 13 13-1208	EA	20" WEKO Internal Joint Seal	3,002.07	261.07
		For Extra Wide Seals, Add	89.78	
33 14 13 13-1209	EA	24" WEKO Internal Joint Seal	3,178.52	281.96
		For Extra Wide Seals, Add	91.36	
33 14 13 13-1210	EA	30" WEKO Internal Joint Seal	3,276.70	302.84
		For Extra Wide Seals, Add	92.94	
33 14 13 13-1211	EA	36" WEKO Internal Joint Seal	3,433.65	328.95
		For Extra Wide Seals, Add	94.92	
33 14 13 13-1212	EA	42" WEKO Internal Joint Seal	3,657.25	360.28
		For Extra Wide Seals, Add	97.29	
33 14 13 13-1213	EA	48" WEKO Internal Joint Seal	3,951.17	386.38
		For Extra Wide Seals, Add	99.27	
33 14 13 13-1214	EA	54" WEKO Internal Joint Seal	4,096.32	407.26
		For Extra Wide Seals, Add	100.85	
33 14 13 13-1215	EA	60" WEKO Internal Joint Seal	4,265.12	438.59
		For Extra Wide Seals, Add	103.23	
33 14 13 23	Plastic Public Water Utility Distribution Piping (33 14 13)			
	Note: Includes detectable tracer wire.			
33 14 13 23-0001	Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)			
33 14 13 23-0002	Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0001)			
33 14 13 23-0003	LF	3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.67	0.95
		For >1,000, Deduct	-0.13	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.05	
33 14 13 23-0004	LF	1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.95	1.02
		For >1,000, Deduct	-0.15	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.06	
33 14 13 23-0005	LF	1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.44	1.11
		For >1,000, Deduct	-0.17	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.10	
33 14 13 23-0006	LF	1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.97	1.23
		For >1,000, Deduct	-0.20	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.14	
33 14 13 23-0007	LF	2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	5.09	1.37
		For >1,000, Deduct	-0.25	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.25	
33 14 13 23-0008	LF	2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	6.54	1.56
		For >1,000, Deduct	-0.33	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.40	
33 14 13 23-0009	LF	3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	7.91	1.73
		For >1,000, Deduct	-0.40	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.54	
33 14 13 23-0010	LF	4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	11.21	2.13
		For >1,000, Deduct	-0.56	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.88	
33 14 13 23-0011	LF	6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	19.58	2.70
		For >1,000, Deduct	-0.98	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.92	
33 14 13 23-0012	LF	8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	31.19	3.79
		For >1,000, Deduct	-1.56	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	3.26	
33 14 13 23-0013	LF	10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	46.45	5.08
		For >1,000, Deduct	-2.32	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	5.06	
33 14 13 23-0014	LF	12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	64.63	6.83
		For >1,000, Deduct	-3.23	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	7.13	
33 14 13 23-0015	Class 200, SDR 21 Polyvinyl Chloride (PVC), 90 Degree Elbows (33 14 13 23-0001)			
33 14 13 23-0016	EA	3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	28.73	11.34
33 14 13 23-0017	EA	1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	36.30	14.18
33 14 13 23-0018	EA	1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	45.70	17.73
33 14 13 23-0019	EA	1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	67.75	19.62
33 14 13 23-0020	EA	2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	73.41	21.98
33 14 13 23-0021	EA	2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	86.75	24.94



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0022 EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	96.68	27.74
33 14 13 23-0023 EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	133.67	34.07
33 14 13 23-0024 EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	191.81	43.28
33 14 13 23-0025 EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	309.05	56.82
33 14 13 23-0026 EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	380.76	76.02
33 14 13 23-0027 EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	503.55	102.32
33 14 13 23-0028 Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbows (33 14 13 23-0001)		
33 14 13 23-0029 EA 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	29.23	11.34
33 14 13 23-0030 EA 1" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	36.66	14.18
33 14 13 23-0031 EA 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	45.92	17.73
33 14 13 23-0032 EA 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	61.19	19.62
33 14 13 23-0033 EA 2" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	74.02	21.98
33 14 13 23-0034 EA 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	89.23	24.94
33 14 13 23-0035 EA 3" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	95.63	27.74
33 14 13 23-0036 EA 4" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	131.41	34.07
33 14 13 23-0037 EA 6" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	187.26	43.28
33 14 13 23-0038 EA 8" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	300.37	56.82
33 14 13 23-0039 EA 10" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	344.80	76.02
33 14 13 23-0040 EA 12" Class 200, SDR 21 Polyvinyl Chloride (PVC), 45 Degree Elbow	453.79	102.32
33 14 13 23-0041 Class 200, SDR 21 Polyvinyl Chloride (PVC), Tees Or Wyes (33 14 13 23-0001)		
33 14 13 23-0042 EA 3/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	43.05	17.02
33 14 13 23-0043 EA 1" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	54.33	21.39
33 14 13 23-0044 EA 1-1/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	68.10	26.72
33 14 13 23-0045 EA 1-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	93.55	29.55
33 14 13 23-0046 EA 2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	106.40	32.86
33 14 13 23-0047 EA 2-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	123.73	37.47
33 14 13 23-0048 EA 3" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	147.79	41.51
33 14 13 23-0049 EA 4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	193.82	51.16
33 14 13 23-0050 EA 6" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	319.15	65.03
33 14 13 23-0051 EA 8" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	476.95	85.23
33 14 13 23-0052 EA 10" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	570.61	121.77
33 14 13 23-0053 EA 12" Class 200 SDR 21 Polyvinyl Chloride (PVC), Tee Or Wye	715.27	163.86
33 14 13 23-0054 Class 200, SDR 21 Polyvinyl Chloride (PVC), Couplings (33 14 13 23-0001)		
33 14 13 23-0055 EA 3/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	19.23	7.57
33 14 13 23-0056 EA 1" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	25.95	10.16
33 14 13 23-0057 EA 1-1/4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	34.63	13.36
33 14 13 23-0058 EA 1-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	47.82	14.77
33 14 13 23-0059 EA 2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	52.75	16.43
33 14 13 23-0060 EA 2-1/2" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	60.00	18.68
33 14 13 23-0061 EA 3" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	68.42	20.76
33 14 13 23-0062 EA 4" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	93.61	25.53
33 14 13 23-0063 EA 6" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	133.41	32.51
33 14 13 23-0064 EA 8" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	225.38	42.62
33 14 13 23-0065 EA 10" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	271.21	60.95
33 14 13 23-0066 EA 12" Class 200 SDR 21 Polyvinyl Chloride (PVC), Coupling	346.25	81.93
33 14 13 23-0067 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0068 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0067)		
33 14 13 23-0069 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.93	0.95
For >1,000, Deduct	-0.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.09	
33 14 13 23-0070 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.44	1.02
For >1,000, Deduct	-0.17	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.14	
33 14 13 23-0071 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	4.42	1.23
For >1,000, Deduct	-0.22	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.20	
33 14 13 23-0072 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.26	1.37
For >1,000, Deduct	-0.26	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.27	
33 14 13 23-0073 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	6.80	1.56
For >1,000, Deduct	-0.34	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.44	
33 14 13 23-0074 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	8.08	1.73
For >1,000, Deduct	-0.40	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.56	
33 14 13 23-0075 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	10.75	2.13
For >1,000, Deduct	-0.54	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.81	
33 14 13 23-0076 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	16.23	2.70
For >1,000, Deduct	-0.81	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.42	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0077 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (33 14 13 23-0067)		
33 14 13 23-0078 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	28.91	11.34
33 14 13 23-0079 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	36.40	14.18
33 14 13 23-0080 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	50.61	19.62
33 14 13 23-0081 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	57.13	21.98
33 14 13 23-0082 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	68.47	24.94
33 14 13 23-0083 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	76.67	27.74
33 14 13 23-0084 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	100.18	34.07
33 14 13 23-0085 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbow	155.95	43.28
33 14 13 23-0086 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows (33 14 13 23-0067)		
33 14 13 23-0087 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	28.87	11.34
33 14 13 23-0088 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	36.36	14.18
33 14 13 23-0089 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	50.63	19.62
33 14 13 23-0090 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	56.96	21.98
33 14 13 23-0091 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	68.00	24.94
33 14 13 23-0092 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	76.12	27.74
33 14 13 23-0093 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	99.07	34.07
33 14 13 23-0094 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbow	152.43	43.28
33 14 13 23-0095 Schedule 40 Polyvinyl Chloride (PVC) Tees Or Wyes (33 14 13 23-0067)		
33 14 13 23-0096 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	43.24	17.02
33 14 13 23-0097 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	54.47	21.39
33 14 13 23-0098 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	75.70	29.55
33 14 13 23-0099 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	85.10	32.86
33 14 13 23-0100 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	102.97	37.47
33 14 13 23-0101 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	117.24	41.51
33 14 13 23-0102 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	145.77	51.16
33 14 13 23-0103 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tee Or Wye	237.32	65.03
33 14 13 23-0104 Schedule 40 Polyvinyl Chloride (PVC) Couplings (33 14 13 23-0067)		
33 14 13 23-0105 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Coupling	19.32	7.57
33 14 13 23-0106 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Coupling	26.02	10.16
33 14 13 23-0107 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Coupling	37.74	14.77
33 14 13 23-0108 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Coupling	42.53	16.43
33 14 13 23-0109 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Coupling	49.86	18.68
33 14 13 23-0110 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Coupling	56.66	20.76
33 14 13 23-0111 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Coupling	70.19	25.53
33 14 13 23-0112 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Coupling	102.96	32.51
33 14 13 23-0113 Schedule 40 Polyvinyl Chloride (PVC) Crosses (33 14 13 23-0067)		
33 14 13 23-0114 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Cross	57.83	22.70
33 14 13 23-0115 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Cross	72.54	28.49
33 14 13 23-0116 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Cross	100.91	39.36
33 14 13 23-0117 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Cross	113.46	43.86
33 14 13 23-0118 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Cross	137.25	49.88
33 14 13 23-0119 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Cross	156.25	55.38
33 14 13 23-0120 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Cross	194.25	68.14
33 14 13 23-0121 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Cross	315.99	86.68
33 14 13 23-0122 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0123 Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0122)		
33 14 13 23-0124 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.71	1.02
For >1,000, Deduct	-0.19	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.18	
33 14 13 23-0125 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	4.97	1.23
For >1,000, Deduct	-0.25	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.29	
33 14 13 23-0126 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	6.19	1.37
For >1,000, Deduct	-0.31	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.41	
33 14 13 23-0127 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	8.01	1.56
For >1,000, Deduct	-0.40	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.62	
33 14 13 23-0128 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	9.78	1.73
For >1,000, Deduct	-0.49	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.82	
33 14 13 23-0129 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	13.34	2.13
For >1,000, Deduct	-0.67	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.20	
33 14 13 23-0130 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	22.00	2.70
For >1,000, Deduct	-1.10	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.28	



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0131		Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows (33 14 13 23-0122)		
33 14 13 23-0132	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	37.84	14.18
33 14 13 23-0133	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	50.61	19.62
33 14 13 23-0134	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	58.57	21.98
33 14 13 23-0135	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	71.52	24.94
33 14 13 23-0136	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	79.50	27.74
33 14 13 23-0137	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	100.86	34.07
33 14 13 23-0138	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	152.73	43.28
33 14 13 23-0139		Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (33 14 13 23-0122)		
33 14 13 23-0140	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	43.72	14.18
33 14 13 23-0141	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	56.28	19.62
33 14 13 23-0142	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	64.02	21.98
33 14 13 23-0143	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	81.73	24.94
33 14 13 23-0144	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	92.80	27.74
33 14 13 23-0145	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	127.60	34.07
33 14 13 23-0146	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	150.93	43.28
33 14 13 23-0147		Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes (33 14 13 23-0122)		
33 14 13 23-0148	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	57.48	21.39
33 14 13 23-0149	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	84.84	29.55
33 14 13 23-0150	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	96.00	32.86
33 14 13 23-0151	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	108.74	37.47
33 14 13 23-0152	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	122.76	41.51
33 14 13 23-0153	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	149.75	51.16
33 14 13 23-0154	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	237.18	65.03
33 14 13 23-0155		Schedule 80 Polyvinyl Chloride (PVC) Couplings (33 14 13 23-0122)		
33 14 13 23-0156	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	28.17	10.16
33 14 13 23-0157	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	41.43	14.77
33 14 13 23-0158	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	46.01	16.43
33 14 13 23-0159	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	58.78	18.68
33 14 13 23-0160	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	65.66	20.76
33 14 13 23-0161	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	81.13	25.53
33 14 13 23-0162	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	118.24	32.51
33 14 13 23-0163		Schedule 80 Polyvinyl Chloride (PVC) Crosses (33 14 13 23-0122)		
33 14 13 23-0164	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Cross	76.54	28.49
33 14 13 23-0165	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	113.04	39.36
33 14 13 23-0166	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Cross	127.93	43.86
33 14 13 23-0167	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	144.91	49.88
33 14 13 23-0168	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Cross	163.58	55.38
33 14 13 23-0169	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Cross	199.54	68.14
33 14 13 23-0170	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Cross	315.80	86.68
33 14 13 23-0171		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe And Fittings (33 14 13 23-0171)		
33 14 13 23-0172		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe (33 14 13 23-0171)		
33 14 13 23-0173	LF	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	59.23	3.64
33 14 13 23-0174	LF	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	84.20	3.92
33 14 13 23-0175	LF	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	113.64	4.54
33 14 13 23-0176	LF	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	154.76	5.82
33 14 13 23-0177	LF	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe	177.15	7.09
33 14 13 23-0178		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (33 14 13 23-0171)		
33 14 13 23-0179	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	751.35	52.80
33 14 13 23-0180	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	1,578.17	88.53
33 14 13 23-0181	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	2,739.48	96.63
33 14 13 23-0182	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	6,475.48	104.54
33 14 13 23-0183	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	8,764.49	112.47
33 14 13 23-0184		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (33 14 13 23-0171)		
33 14 13 23-0185	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	1,051.67	52.80
33 14 13 23-0186	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	1,275.20	88.53
33 14 13 23-0187	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	1,721.29	96.63
33 14 13 23-0188	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	3,356.78	104.54
33 14 13 23-0189	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	4,799.17	112.47
33 14 13 23-0190		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (33 14 13 23-0171)		
33 14 13 23-0191	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	1,455.23	84.48

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0192 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	2,145.74	126.25
33 14 13 23-0193 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	2,834.29	134.64
33 14 13 23-0194 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	6,881.65	142.57
33 14 13 23-0195 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	9,697.94	150.47
33 14 13 23-0196 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees (33 14 13 23-0171)		
33 14 13 23-0197 EA 8" x 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	1,429.96	80.25
33 14 13 23-0198 EA 10" x 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	1,561.14	113.94
33 14 13 23-0199 EA 10" x 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	1,780.22	119.94
33 14 13 23-0200 EA 12" x 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	2,017.38	115.44
33 14 13 23-0201 EA 12" x 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	2,239.16	121.52
33 14 13 23-0202 EA 12" x 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	2,553.42	127.91
33 14 13 23-0203 EA 14" x 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	4,951.43	116.13
33 14 13 23-0204 EA 14" x 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	5,334.32	122.23
33 14 13 23-0205 EA 14" x 14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	5,822.12	128.67
33 14 13 23-0206 EA 14" x 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	6,385.65	135.44
33 14 13 23-0207 EA 16" x 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	6,011.55	116.44
33 14 13 23-0208 EA 16" x 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	6,701.04	122.57
33 14 13 23-0209 EA 16" x 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	7,244.23	129.02
33 14 13 23-0210 EA 16" x 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	8,081.36	135.80
33 14 13 23-0211 EA 16" x 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee.....	8,958.66	142.95
33 14 13 23-0212 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wyes (33 14 13 23-0171)		
33 14 13 23-0213 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	1,469.62	84.48
33 14 13 23-0214 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	2,477.45	126.25
33 14 13 23-0215 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	3,347.72	134.64
33 14 13 23-0216 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	10,825.23	142.57
33 14 13 23-0217 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	13,507.48	150.47
33 14 13 23-0218 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wyes (33 14 13 23-0171)		
33 14 13 23-0219 EA 8" x 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	1,280.35	80.25
33 14 13 23-0220 EA 10" x 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	1,782.88	113.94
33 14 13 23-0221 EA 10" x 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	2,063.89	119.94
33 14 13 23-0222 EA 12" x 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	2,374.49	115.44
33 14 13 23-0223 EA 12" x 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	2,505.46	121.52
33 14 13 23-0224 EA 12" x 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	3,030.45	127.91
33 14 13 23-0225 EA 14" x 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	5,219.90	116.13
33 14 13 23-0226 EA 14" x 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	5,638.13	122.23
33 14 13 23-0227 EA 14" x 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	6,834.87	135.44
33 14 13 23-0228 EA 16" x 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	6,237.48	116.44
33 14 13 23-0229 EA 16" x 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	7,211.07	122.57
33 14 13 23-0230 EA 16" x 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	8,082.39	129.02
33 14 13 23-0231 EA 16" x 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	8,755.44	135.80
33 14 13 23-0232 EA 16" x 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye.....	10,944.37	142.95
33 14 13 23-0233 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (33 14 13 23-0171)		
33 14 13 23-0234 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	682.59	52.80
33 14 13 23-0235 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	927.34	88.53
33 14 13 23-0236 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	1,281.97	96.63
33 14 13 23-0237 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	2,538.35	104.54
33 14 13 23-0238 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	3,777.65	112.47
33 14 13 23-0239 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Couplings (33 14 13 23-0171)		
33 14 13 23-0240 EA 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	926.64	50.15
33 14 13 23-0241 EA 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	682.26	47.65
33 14 13 23-0242 EA 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	948.13	84.10
33 14 13 23-0243 EA 12" x 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	1,827.57	79.89
33 14 13 23-0244 EA 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	1,703.70	75.90
33 14 13 23-0245 EA 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	1,338.81	72.11
33 14 13 23-0246 EA 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	847.26	91.78
33 14 13 23-0247 EA 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	2,449.90	87.20
33 14 13 23-0248 EA 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	2,065.26	82.84
33 14 13 23-0249 EA 14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	1,787.14	78.69
33 14 13 23-0250 EA 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	1,639.55	99.30
33 14 13 23-0251 EA 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	3,232.20	94.34
33 14 13 23-0252 EA 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	3,648.89	89.63
33 14 13 23-0253 EA 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	3,493.35	85.14
33 14 13 23-0254 EA 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	3,311.31	80.89
33 14 13 23-0255 EA 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling.....	3,029.40	106.85
33 14 13 23-0256 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Couplings (33 14 13 23-0171)		



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0257 EA 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	824.30	89.63
33 14 13 23-0258 EA 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,444.61	85.14
33 14 13 23-0259 EA 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,097.80	85.14
33 14 13 23-0260 EA 12" x 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,790.04	80.89
33 14 13 23-0261 EA 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,883.11	76.85
33 14 13 23-0262 EA 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,795.26	73.00
33 14 13 23-0263 EA 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,645.48	80.89
33 14 13 23-0264 EA 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,991.54	76.85
33 14 13 23-0265 EA 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,927.28	73.00
33 14 13 23-0266 EA 14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,129.93	69.35
33 14 13 23-0267 EA 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,978.38	76.85
33 14 13 23-0268 EA 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	5,295.79	73.00
33 14 13 23-0269 EA 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	5,117.24	69.35
33 14 13 23-0270 EA 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	5,017.82	65.89
33 14 13 23-0271 EA 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	4,818.80	62.59
33 14 13 23-0272 EA 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	4,543.19	101.50
33 14 13 23-0273 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flanges (33 14 13 23-0171)		
33 14 13 23-0274 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	904.39	52.80
33 14 13 23-0275 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	2,080.74	88.53
33 14 13 23-0276 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	3,031.66	96.63
33 14 13 23-0277 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	3,405.33	104.54
33 14 13 23-0278 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	4,211.16	112.47
33 14 13 23-0279 EA 8" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	28.15	
33 14 13 23-0280 EA 10" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	36.68	
33 14 13 23-0281 EA 12" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	50.48	
33 14 13 23-0282 EA 14" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	107.98	
33 14 13 23-0283 EA 16" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	191.57	
33 14 13 23-0284 EA Zinc Coated Flange Hardware Kit.....	179.88	
33 14 13 23-0285 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23)		
Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0286 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)		
33 14 13 23-0287 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	11.87	4.16
33 14 13 23-0288 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	17.31	5.04
33 14 13 23-0289 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	23.81	5.67
33 14 13 23-0290 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	31.42	6.30
33 14 13 23-0291 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	40.76	7.06
33 14 13 23-0292 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)		
33 14 13 23-0293 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	13.14	4.16
33 14 13 23-0294 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	19.95	5.04
33 14 13 23-0295 LF 8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	28.26	5.67
33 14 13 23-0296 LF 10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	38.33	6.30
33 14 13 23-0297 LF 12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	50.41	7.06
33 14 13 23-0298 AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)		
33 14 13 23-0299 LF 4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	14.40	4.16
33 14 13 23-0300 LF 6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	22.57	5.04
33 14 13 23-0301 LF 8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	32.70	5.67
33 14 13 23-0302 LF 10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	45.08	6.30
33 14 13 23-0303 LF 12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	60.05	7.06
33 14 13 23-0304 AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)		
33 14 13 23-0305 LF 18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	64.00	10.58
33 14 13 23-0306 LF 20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	78.08	12.60
33 14 13 23-0307 LF 24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	104.90	15.12
33 14 13 23-0308 LF 30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	151.98	17.64
33 14 13 23-0309 LF 36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	210.19	20.16
33 14 13 23-0310 LF 42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	266.74	21.42
33 14 13 23-0311 LF 48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	338.23	23.06
33 14 13 23-0312 AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)		
33 14 13 23-0313 LF 14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	47.25	7.94
33 14 13 23-0314 LF 16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	59.37	8.82
33 14 13 23-0315 LF 18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	73.66	10.58
33 14 13 23-0316 LF 20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	90.62	12.60
33 14 13 23-0317 LF 24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	124.24	15.12
33 14 13 23-0318 LF 30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	179.72	17.64
33 14 13 23-0319 LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	247.34	20.16
33 14 13 23-0320 LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	328.52	21.42
33 14 13 23-0321 LF 48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	418.39	23.06

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0322 AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)				
33 14 13 23-0323	LF	14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	54.68	7.94
33 14 13 23-0324	LF	16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	69.69	8.82
33 14 13 23-0325	LF	18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	86.48	10.58
33 14 13 23-0326	LF	20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	107.25	12.60
33 14 13 23-0327	LF	24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	148.11	15.12
33 14 13 23-0328	LF	30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	215.58	17.64
33 14 13 23-0329	LF	36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	299.69	20.16
33 14 13 23-0330	LF	42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	390.53	21.42
33 14 13 23-0331	LF	48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	499.31	23.06
33 14 13 23-0332 AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)				
33 14 13 23-0333	LF	14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	67.39	7.94
33 14 13 23-0334	LF	16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	84.78	8.82
33 14 13 23-0335	LF	18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	105.90	10.58
33 14 13 23-0336	LF	20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	130.71	12.60
33 14 13 23-0337	LF	24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	181.94	15.12
33 14 13 23-0338	LF	30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	268.67	17.64
33 14 13 23-0339	LF	36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	381.32	20.16
33 14 13 23-0340	LF	42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	510.24	21.42
33 14 13 23-0341	LF	48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	659.96	23.06
33 14 13 23-0342 AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)				
33 14 13 23-0343	LF	14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	76.93	7.94
33 14 13 23-0344	LF	16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	97.20	8.82
33 14 13 23-0345	LF	18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	121.57	10.58
33 14 13 23-0346	LF	20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	150.21	12.60
33 14 13 23-0347	LF	24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	210.01	15.12
33 14 13 23-0348	LF	30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	311.85	17.64
33 14 13 23-0349	LF	36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	444.39	20.16
33 14 13 23-0350	LF	42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	596.69	21.42
33 14 13 23-0351 AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)				
33 14 13 23-0352	LF	14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	86.24	7.94
33 14 13 23-0353	LF	16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	109.28	8.82
33 14 13 23-0354	LF	18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	136.79	10.58
33 14 13 23-0355	LF	20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	169.20	12.60
33 14 13 23-0356	LF	24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	237.31	15.12
33 14 13 23-0357	LF	30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	353.86	17.64
33 14 13 23-0358	LF	36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	505.77	20.16
33 14 13 23-0359 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)				
Note: Includes rubber gaskets.				
33 14 13 23-0360 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbows (33 14 13 23-0359)				
33 14 13 23-0361	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	219.72	14.18
		For DR 25, Deduct	-11.48	
33 14 13 23-0362	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	449.62	15.96
		For DR 25, Deduct	-25.06	
33 14 13 23-0363	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	675.25	17.73
		For DR 25, Deduct	-38.39	
33 14 13 23-0364	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	1,031.81	28.45
		For DR 25, Deduct	-58.49	
33 14 13 23-0365	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	1,343.16	47.42
		For DR 25, Deduct	-74.90	
33 14 13 23-0366	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	2,016.65	59.28
		For DR 25, Deduct	-113.89	
33 14 13 23-0367	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	2,406.63	71.15
		For DR 25, Deduct	-135.86	
33 14 13 23-0368	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	4,128.71	94.86
		For DR 25, Deduct	-236.34	
33 14 13 23-0369	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	5,082.64	118.57
		For DR 25, Deduct	-290.73	
33 14 13 23-0370	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 90 Degree Elbow	8,435.78	160.07
		For DR 25, Deduct	-486.94	
33 14 13 23-0371 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbows (33 14 13 23-0359)				
33 14 13 23-0372	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	194.74	14.18
		For DR 25, Deduct	-9.98	
33 14 13 23-0373	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	336.30	15.96
		For DR 25, Deduct	-18.26	
33 14 13 23-0374	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	426.12	17.73
		For DR 25, Deduct	-23.44	



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		Water Utilities	33 10	
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33 14 13 23-0375	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	603.36	28.45
		For DR 25, Deduct	-32.79	
33 14 13 23-0376	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	807.03	47.42
		For DR 25, Deduct	-42.73	
33 14 13 23-0377	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	1,550.30	59.28
		For DR 25, Deduct	-85.90	
33 14 13 23-0378	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	1,964.84	71.15
		For DR 25, Deduct	-109.35	
33 14 13 23-0379	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	3,390.06	94.86
		For DR 25, Deduct	-192.02	
33 14 13 23-0380	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	4,210.63	118.57
		For DR 25, Deduct	-238.41	
33 14 13 23-0381	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 45 Degree Elbow	5,941.76	160.07
		For DR 25, Deduct	-337.30	
33 14 13 23-0382 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbows				
		(33 14 13 23-0359)		
33 14 13 23-0383	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	191.71	14.18
		For DR 25, Deduct	-9.80	
33 14 13 23-0384	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	336.30	15.96
		For DR 25, Deduct	-18.26	
33 14 13 23-0385	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	426.13	17.73
		For DR 25, Deduct	-23.44	
33 14 13 23-0386	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	603.37	28.45
		For DR 25, Deduct	-32.79	
33 14 13 23-0387	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	807.04	47.42
		For DR 25, Deduct	-42.73	
33 14 13 23-0388	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	1,545.54	56.91
		For DR 25, Deduct	-85.90	
33 14 13 23-0389	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	1,964.81	71.15
		For DR 25, Deduct	-109.35	
33 14 13 23-0390	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	3,390.06	94.86
		For DR 25, Deduct	-192.02	
33 14 13 23-0391	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	4,210.63	118.57
		For DR 25, Deduct	-238.41	
33 14 13 23-0392	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 22-1/2 Degree Elbow	5,941.76	160.07
		For DR 25, Deduct	-337.30	
33 14 13 23-0393 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbows				
		(33 14 13 23-0359)		
33 14 13 23-0394	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	169.33	14.18
		For DR 25, Deduct	-8.46	
33 14 13 23-0395	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	336.30	15.96
		For DR 25, Deduct	-18.26	
33 14 13 23-0396	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	426.13	17.73
		For DR 25, Deduct	-23.44	
33 14 13 23-0397	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	603.37	28.45
		For DR 25, Deduct	-32.79	
33 14 13 23-0398	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	807.04	47.42
		For DR 25, Deduct	-42.73	
33 14 13 23-0399	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	1,545.54	56.91
		For DR 25, Deduct	-85.90	
33 14 13 23-0400	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	1,964.81	71.15
		For DR 25, Deduct	-109.35	
33 14 13 23-0401	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	3,390.06	94.86
		For DR 25, Deduct	-192.02	
33 14 13 23-0402	EA	20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	4,210.63	118.57
		For DR 25, Deduct	-238.41	
33 14 13 23-0403	EA	24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), 11-1/4 Degree Elbow	5,941.76	160.07
		For DR 25, Deduct	-337.30	
33 14 13 23-0404 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tees Or Wyes				
		(33 14 13 23-0359)		
33 14 13 23-0405	EA	4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	261.12	15.96
		For DR 25, Deduct	-13.75	
33 14 13 23-0406	EA	6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	504.04	17.73
		For DR 25, Deduct	-28.11	
33 14 13 23-0407	EA	8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	703.27	20.09
		For DR 25, Deduct	-39.79	
33 14 13 23-0408	EA	10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	1,450.65	35.57
		For DR 25, Deduct	-82.77	
33 14 13 23-0409	EA	12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	1,771.72	71.15
		For DR 25, Deduct	-97.77	
33 14 13 23-0410	EA	14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	3,198.16	88.92
		For DR 25, Deduct	-181.22	
33 14 13 23-0411	EA	16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee Or Wye	3,961.10	106.71
		For DR 25, Deduct	-224.86	
33 14 13 23-0412	EA	18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee	4,998.28	142.28
		For DR 25, Deduct	-282.82	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0413 EA 20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee For DR 25, Deduct	6,002.61 -338.81	177.85
33 14 13 23-0414 EA 24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Tee For DR 25, Deduct	8,230.34 -479.31	120.94
33 14 13 23-0415 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tees Or Wyes (33 14 13 23-0359)		
33 14 13 23-0416 EA 6" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	502.01 -27.35	23.05
33 14 13 23-0417 EA 8" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	682.70 -37.98	24.82
33 14 13 23-0418 EA 8" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	699.80 -38.90	25.71
33 14 13 23-0419 EA 10" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	908.87 -50.26	35.57
33 14 13 23-0420 EA 10" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	1,230.43 -69.45	36.46
33 14 13 23-0421 EA 10" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	1,316.20 -74.49	37.35
33 14 13 23-0422 EA 12" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	1,396.02 -77.22	54.54
33 14 13 23-0423 EA 12" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	1,602.21 -89.48	55.43
33 14 13 23-0424 EA 12" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	1,699.67 -95.22	56.32
33 14 13 23-0425 EA 12" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	1,731.87 -96.51	61.65
33 14 13 23-0426 EA 14" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	2,628.96 -150.05	64.03
33 14 13 23-0427 EA 14" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	2,734.63 -156.29	64.92
33 14 13 23-0428 EA 14" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	2,840.57 -162.54	65.81
33 14 13 23-0429 EA 14" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	2,954.80 -168.75	71.15
33 14 13 23-0430 EA 14" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	3,077.72 -174.99	80.63
33 14 13 23-0431 EA 16" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	3,280.78 -187.46	78.25
33 14 13 23-0432 EA 16" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	3,384.65 -193.69	78.25
33 14 13 23-0433 EA 16" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	3,490.34 -199.92	79.14
33 14 13 23-0434 EA 16" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	3,596.03 -206.16	80.03
33 14 13 23-0435 EA 16" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	3,729.54 -212.39	94.86
33 14 13 23-0436 EA 16" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	3,842.92 -218.62	99.60
33 14 13 23-0437 EA 18" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	4,054.72 -231.05	101.97
33 14 13 23-0438 EA 18" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	4,161.13 -237.32	102.86
33 14 13 23-0439 EA 18" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	4,266.80 -243.56	103.75
33 14 13 23-0440 EA 18" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	4,381.37 -249.79	109.08
33 14 13 23-0441 EA 18" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	4,504.19 -256.02	118.57
33 14 13 23-0442 EA 18" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	4,616.86 -262.21	123.31
33 14 13 23-0443 EA 18" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	4,760.10 -269.96	130.43
33 14 13 23-0444 EA 20" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	5,142.50 -293.47	125.69
33 14 13 23-0445 EA 20" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	5,321.69 -304.11	126.57
33 14 13 23-0446 EA 20" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	5,392.24 -308.24	127.46
33 14 13 23-0447 EA 20" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	5,471.77 -312.37	132.80
33 14 13 23-0448 EA 20" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	5,559.54 -316.50	142.28
33 14 13 23-0449 EA 20" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	5,680.57 -323.19	147.02
33 14 13 23-0450 EA 20" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	5,806.36 -329.89	154.14
33 14 13 23-0451 EA 20" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	5,904.49 -334.35	165.99
33 14 13 23-0452 EA 24" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	6,055.64 -343.28	167.19
33 14 13 23-0453 EA 24" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye For DR 25, Deduct	6,131.86 -347.74	168.08



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0454 EA 24" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye..... For DR 25, Deduct	6,208.06 -352.21	168.96
33 14 13 23-0455 EA 24" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye..... For DR 25, Deduct	6,521.34 -370.37	174.29
33 14 13 23-0456 EA 24" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye..... For DR 25, Deduct	6,842.90 -388.52	183.78
33 14 13 23-0457 EA 24" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye..... For DR 25, Deduct	7,155.00 -406.68	188.52
33 14 13 23-0458 EA 24" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye..... For DR 25, Deduct	7,471.87 -424.84	195.64
33 14 13 23-0459 EA 24" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye..... For DR 25, Deduct	7,798.20 -442.99	207.49
33 14 13 23-0460 EA 24" x 20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Tee Or Wye..... For DR 25, Deduct	8,124.53 -461.15	219.35
33 14 13 23-0461 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross (33 14 13 23-0359)		
33 14 13 23-0462 EA 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	362.36 -18.34	28.37
33 14 13 23-0463 EA 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	650.37 -35.19	31.91
33 14 13 23-0464 EA 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	900.19 -49.76	35.46
33 14 13 23-0465 EA 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	1,837.48 -103.42	56.91
33 14 13 23-0466 EA 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	2,179.49 -122.23	71.15
33 14 13 23-0467 EA 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	3,965.31 -226.54	94.86
33 14 13 23-0468 EA 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	4,920.96 -281.04	118.57
33 14 13 23-0469 EA 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	6,272.46 -353.58	189.72
33 14 13 23-0470 EA 20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	7,533.01 -423.52	237.14
33 14 13 23-0471 EA 24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Cross..... For DR 25, Deduct	10,625.24 -599.10	320.14
33 14 13 23-0472 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross (33 14 13 23-0359)		
33 14 13 23-0473 EA 6" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	630.63 -34.22	30.14
33 14 13 23-0474 EA 8" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	856.12 -47.54	31.91
33 14 13 23-0475 EA 8" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	878.03 -48.64	33.68
33 14 13 23-0476 EA 10" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	1,317.47 -73.93	42.68
33 14 13 23-0477 EA 10" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	1,535.99 -86.82	44.46
33 14 13 23-0478 EA 10" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	1,687.24 -95.69	46.24
33 14 13 23-0479 EA 12" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	1,732.52 -96.55	61.65
33 14 13 23-0480 EA 12" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	1,990.98 -111.85	63.43
33 14 13 23-0481 EA 12" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	2,114.16 -119.02	65.21
33 14 13 23-0482 EA 12" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	2,162.30 -120.63	75.89
33 14 13 23-0483 EA 14" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	3,268.40 -187.57	71.15
33 14 13 23-0484 EA 14" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	3,401.44 -195.34	72.92
33 14 13 23-0485 EA 14" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	3,535.91 -203.19	74.69
33 14 13 23-0486 EA 14" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	3,687.62 -211.01	85.37
33 14 13 23-0487 EA 14" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	3,854.93 -218.78	104.34
33 14 13 23-0488 EA 16" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	4,075.45 -234.28	85.37
33 14 13 23-0489 EA 16" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	4,210.24 -242.16	87.15
33 14 13 23-0490 EA 16" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	4,343.59 -249.94	88.92
33 14 13 23-0491 EA 16" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	4,495.19 -257.76	99.60
33 14 13 23-0492 EA 16" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	4,570.02 -259.97	118.57
33 14 13 23-0493 EA 16" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	4,811.15 -273.30	128.05

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0494 EA 18" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	5,032.30 -288.85	109.08
33 14 13 23-0495 EA 18" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	5,166.78 -296.70	110.86
33 14 13 23-0496 EA 18" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	5,300.32 -304.50	112.64
33 14 13 23-0497 EA 18" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	5,449.96 -312.20	123.31
33 14 13 23-0498 EA 18" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	5,618.83 -320.06	142.28
33 14 13 23-0499 EA 18" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	5,767.19 -327.82	151.77
33 14 13 23-0500 EA 18" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	5,956.68 -337.48	165.99
33 14 13 23-0501 EA 20" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	6,380.12 -366.87	132.80
33 14 13 23-0502 EA 20" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	6,605.06 -380.15	134.58
33 14 13 23-0503 EA 20" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	6,695.24 -385.35	136.36
33 14 13 23-0504 EA 20" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	6,802.27 -390.49	147.02
33 14 13 23-0505 EA 20" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	6,925.92 -395.64	165.99
33 14 13 23-0506 EA 20" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	7,083.35 -403.94	175.48
33 14 13 23-0507 EA 20" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	7,253.04 -412.42	189.72
33 14 13 23-0508 EA 20" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	7,393.20 -417.98	213.43
33 14 13 23-0509 EA 24" x 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	7,458.90 -426.62	174.29
33 14 13 23-0510 EA 24" x 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	7,597.25 -434.71	176.07
33 14 13 23-0511 EA 24" x 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	7,694.21 -440.31	177.85
33 14 13 23-0512 EA 24" x 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	8,093.37 -462.98	188.52
33 14 13 23-0513 EA 24" x 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	8,509.29 -485.66	207.49
33 14 13 23-0514 EA 24" x 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	8,906.15 -508.33	216.98
33 14 13 23-0515 EA 24" x 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	9,314.13 -531.10	231.21
33 14 13 23-0516 EA 24" x 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	9,738.64 -553.73	254.93
33 14 13 23-0517 EA 24" x 20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Reducing Cross..... For DR 25, Deduct	10,164.76 -576.45	278.64
33 14 13 23-0518 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Couplings (33 14 13 23-0359)		
33 14 13 23-0519 EA 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	131.43 -6.18	14.18
33 14 13 23-0520 EA 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	244.64 -12.76	15.96
33 14 13 23-0521 EA 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	294.41 -15.54	17.73
33 14 13 23-0522 EA 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	419.15 -21.73	28.45
33 14 13 23-0523 EA 12" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	666.32 -35.71	35.57
33 14 13 23-0524 EA 14" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	1,155.45 -63.63	47.42
33 14 13 23-0525 EA 16" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	1,368.88 -75.02	59.28
33 14 13 23-0526 EA 18" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	3,275.11 -185.12	94.86
33 14 13 23-0527 EA 20" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	3,672.14 -206.10	118.57
33 14 13 23-0528 EA 24" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Coupling..... For DR 25, Deduct	5,170.16 -291.00	160.07
33 14 13 23-0529 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter (33 14 13 23-0359)		
33 14 13 23-0530 EA 4" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter..... For DR 25, Deduct	162.81 -8.07	14.18
33 14 13 23-0531 EA 6" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter..... For DR 25, Deduct	221.08 -11.35	15.96
33 14 13 23-0532 EA 8" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter..... For DR 25, Deduct	321.23 -17.15	17.73
33 14 13 23-0533 EA 10" AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter..... For DR 25, Deduct	440.06 -22.99	28.45



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0534	EA	12"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	705.29	47.42
			<i>For DR 25, Deduct</i>	-36.63	
33 14 13 23-0535	EA	14"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	1,869.18	56.91
			<i>For DR 25, Deduct</i>	-105.32	
33 14 13 23-0536	EA	16"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	2,529.97	71.15
			<i>For DR 25, Deduct</i>	-143.26	
33 14 13 23-0537	EA	18"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	3,117.60	94.86
			<i>For DR 25, Deduct</i>	-175.67	
33 14 13 23-0538	EA	20"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	3,724.89	118.57
			<i>For DR 25, Deduct</i>	-209.27	
33 14 13 23-0539	EA	24"	AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC), Flanged End x Gasket Joint Adapter	5,060.10	160.07
			<i>For DR 25, Deduct</i>	-284.40	
33 14 13 23-0540 AWWA C906, High-Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)					
Note: ASTM D3350 pipe, ASTM D2657 heat fusion.					
33 14 13 23-0541 High-Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0540)					
33 14 13 23-0542	LF	3"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	8.44	3.28
			<i>For SDR 19, Add</i>	0.16	
			<i>For SDR 17, Add</i>	0.40	
			<i>For SDR 15.5, Add</i>	0.59	
			<i>For SDR 13.5, Add</i>	0.92	
			<i>For SDR 11, Add</i>	1.49	
33 14 13 23-0543	LF	4"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	12.53	4.16
			<i>For SDR 26, Deduct</i>	-0.77	
			<i>For SDR 19, Add</i>	0.38	
			<i>For SDR 17, Add</i>	0.94	
			<i>For SDR 15.5, Add</i>	1.37	
			<i>For SDR 13.5, Add</i>	2.14	
			<i>For SDR 11, Add</i>	3.44	
33 14 13 23-0544	LF	6"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	19.15	5.04
			<i>For SDR 26, Deduct</i>	-1.66	
			<i>For SDR 19, Add</i>	0.82	
			<i>For SDR 17, Add</i>	2.02	
			<i>For SDR 15.5, Add</i>	2.95	
			<i>For SDR 13.5, Add</i>	4.61	
			<i>For SDR 11, Add</i>	7.41	
33 14 13 23-0545	LF	8"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	26.75	5.67
			<i>For SDR 26, Deduct</i>	-2.82	
			<i>For SDR 19, Add</i>	1.39	
			<i>For SDR 17, Add</i>	3.42	
			<i>For SDR 15.5, Add</i>	5.01	
			<i>For SDR 13.5, Add</i>	7.83	
			<i>For SDR 11, Add</i>	12.60	
33 14 13 23-0546	LF	10"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	36.55	6.30
			<i>For SDR 26, Deduct</i>	-4.39	
			<i>For SDR 19, Add</i>	2.16	
			<i>For SDR 17, Add</i>	5.32	
			<i>For SDR 15.5, Add</i>	7.79	
			<i>For SDR 13.5, Add</i>	12.16	
			<i>For SDR 11, Add</i>	19.58	
33 14 13 23-0547	LF	12"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	48.52	7.06
			<i>For SDR 26, Deduct</i>	-6.33	
			<i>For SDR 19, Add</i>	3.11	
			<i>For SDR 17, Add</i>	7.67	
			<i>For SDR 15.5, Add</i>	11.24	
			<i>For SDR 13.5, Add</i>	17.54	
			<i>For SDR 11, Add</i>	28.23	
33 14 13 23-0548	LF	14"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	56.34	7.94
			<i>For SDR 26, Deduct</i>	-7.44	
			<i>For SDR 19, Add</i>	3.65	
			<i>For SDR 17, Add</i>	9.02	
			<i>For SDR 15.5, Add</i>	13.21	
			<i>For SDR 13.5, Add</i>	20.62	
			<i>For SDR 11, Add</i>	33.18	
33 14 13 23-0549	LF	16"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	70.67	8.82
			<i>For SDR 26, Deduct</i>	-9.72	
			<i>For SDR 19, Add</i>	4.77	
			<i>For SDR 17, Add</i>	11.78	
			<i>For SDR 15.5, Add</i>	17.26	
			<i>For SDR 13.5, Add</i>	26.93	
			<i>For SDR 11, Add</i>	43.35	
33 14 13 23-0550	LF	18"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	88.25	10.58
			<i>For SDR 26, Deduct</i>	-12.28	
			<i>For SDR 19, Add</i>	6.03	
			<i>For SDR 17, Add</i>	14.89	
			<i>For SDR 15.5, Add</i>	21.81	
			<i>For SDR 13.5, Add</i>	34.04	
			<i>For SDR 11, Add</i>	54.79	
33 14 13 23-0551	LF	20"	DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	83.92	12.60
			<i>For SDR 26, Deduct</i>	-10.76	
			<i>For SDR 19, Add</i>	5.28	
			<i>For SDR 17, Add</i>	13.05	
			<i>For SDR 15.5, Add</i>	19.10	
			<i>For SDR 13.5, Add</i>	29.82	
			<i>For SDR 11, Add</i>	48.00	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 23-0552	LF	24" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	149.50		15.12
		For SDR 26, Deduct	-21.86		
		For SDR 19, Add	10.73		
		For SDR 17, Add	26.50		
		For SDR 15.5, Add	38.81		
		For SDR 13.5, Add	60.57		
		For SDR 11, Add	97.50		
33 14 13 23-0553		90 Degree Elbows, High-Density Polyethylene (HDPE) Pressure Piping ^(33 14 13 23-0540)	67.42		17.73
33 14 13 23-0554	EA	3" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	67.42		17.73
		For SDR 26, Deduct	-2.61		
		For SDR 19, Add	1.28		
		For SDR 17, Add	3.16		
		For SDR 15.5, Add	4.63		
		For SDR 13.5, Add	7.22		
		For SDR 11, Add	11.62		
33 14 13 23-0555	EA	4" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	76.05		19.72
		For SDR 26, Deduct	-3.11		
		For SDR 19, Add	1.52		
		For SDR 17, Add	3.76		
		For SDR 15.5, Add	5.51		
		For SDR 13.5, Add	8.60		
		For SDR 11, Add	13.85		
33 14 13 23-0556	EA	6" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	112.55		22.51
		For SDR 26, Deduct	-8.26		
		For SDR 19, Add	4.05		
		For SDR 17, Add	10.01		
		For SDR 15.5, Add	14.66		
		For SDR 13.5, Add	22.88		
		For SDR 11, Add	36.83		
33 14 13 23-0557	EA	8" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	173.00		26.29
		For SDR 26, Deduct	-17.26		
		For SDR 19, Add	8.48		
		For SDR 17, Add	20.92		
		For SDR 15.5, Add	30.64		
		For SDR 13.5, Add	47.83		
		For SDR 11, Add	76.98		
33 14 13 23-0558	EA	10" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	262.26		35.11
		For SDR 26, Deduct	-28.81		
		For SDR 19, Add	14.15		
		For SDR 17, Add	34.93		
		For SDR 15.5, Add	51.15		
		For SDR 13.5, Add	79.83		
		For SDR 11, Add	128.49		
33 14 13 23-0559	EA	12" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	387.73		52.54
		For SDR 26, Deduct	-42.19		
		For SDR 19, Add	20.72		
		For SDR 17, Add	51.14		
		For SDR 15.5, Add	74.90		
		For SDR 13.5, Add	116.90		
		For SDR 11, Add	188.16		
33 14 13 23-0560	EA	14" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	484.63		70.12
		For SDR 26, Deduct	-50.29		
		For SDR 19, Add	24.69		
		For SDR 17, Add	60.97		
		For SDR 15.5, Add	89.28		
		For SDR 13.5, Add	139.36		
		For SDR 11, Add	224.31		
33 14 13 23-0561	EA	16" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	643.70		105.08
		For SDR 26, Deduct	-60.23		
		For SDR 19, Add	29.57		
		For SDR 17, Add	73.01		
		For SDR 15.5, Add	106.92		
		For SDR 13.5, Add	166.89		
		For SDR 11, Add	268.61		
33 14 13 23-0562	EA	18" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	801.77		118.20
		For SDR 26, Deduct	-81.96		
		For SDR 19, Add	40.24		
		For SDR 17, Add	99.35		
		For SDR 15.5, Add	145.50		
		For SDR 13.5, Add	227.10		
		For SDR 11, Add	365.54		
33 14 13 23-0563	EA	20" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,079.01		134.16
		For SDR 26, Deduct	-123.25		
		For SDR 19, Add	60.52		
		For SDR 17, Add	149.41		
		For SDR 15.5, Add	218.80		
		For SDR 13.5, Add	341.52		
		For SDR 11, Add	549.70		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0564	EA		24" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,370.49	157.69
			For SDR 26, Deduct	-164.54	
			For SDR 19, Add	80.79	
			For SDR 17, Add	199.46	
			For SDR 15.5, Add	292.10	
			For SDR 13.5, Add	455.93	
			For SDR 11, Add	733.85	
33 14 13 23-0565 Tees, High-Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0540)					
33 14 13 23-0566	EA		3" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	74.15	18.56
			For SDR 26, Deduct	-3.41	
			For SDR 19, Add	1.67	
			For SDR 17, Add	4.13	
			For SDR 15.5, Add	6.05	
			For SDR 13.5, Add	9.44	
			For SDR 11, Add	15.20	
33 14 13 23-0567	EA		4" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	84.88	21.02
			For SDR 26, Deduct	-4.01	
			For SDR 19, Add	1.97	
			For SDR 17, Add	4.86	
			For SDR 15.5, Add	7.12	
			For SDR 13.5, Add	11.11	
			For SDR 11, Add	17.89	
33 14 13 23-0568	EA		6" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	129.91	24.25
			For SDR 26, Deduct	-10.48	
			For SDR 19, Add	5.15	
			For SDR 17, Add	12.71	
			For SDR 15.5, Add	18.61	
			For SDR 13.5, Add	29.05	
			For SDR 11, Add	46.76	
33 14 13 23-0569	EA		8" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	231.05	28.67
			For SDR 26, Deduct	-26.60	
			For SDR 19, Add	13.06	
			For SDR 17, Add	32.25	
			For SDR 15.5, Add	47.22	
			For SDR 13.5, Add	73.71	
			For SDR 11, Add	118.64	
33 14 13 23-0570	EA		10" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	317.30	42.08
			For SDR 26, Deduct	-35.05	
			For SDR 19, Add	17.21	
			For SDR 17, Add	42.48	
			For SDR 15.5, Add	62.21	
			For SDR 13.5, Add	97.11	
			For SDR 11, Add	156.30	
33 14 13 23-0571	EA		12" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	450.22	63.13
			For SDR 26, Deduct	-47.85	
			For SDR 19, Add	23.50	
			For SDR 17, Add	58.01	
			For SDR 15.5, Add	84.95	
			For SDR 13.5, Add	132.59	
			For SDR 11, Add	213.42	
33 14 13 23-0572	EA		14" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	543.54	78.84
			For SDR 26, Deduct	-56.30	
			For SDR 19, Add	27.64	
			For SDR 17, Add	68.24	
			For SDR 15.5, Add	99.94	
			For SDR 13.5, Add	155.99	
			For SDR 11, Add	251.08	
33 14 13 23-0573	EA		16" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	719.50	118.20
			For SDR 26, Deduct	-66.85	
			For SDR 19, Add	32.82	
			For SDR 17, Add	81.04	
			For SDR 15.5, Add	118.68	
			For SDR 13.5, Add	185.24	
			For SDR 11, Add	298.16	
33 14 13 23-0574	EA		18" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	919.81	137.71
			For SDR 26, Deduct	-92.89	
			For SDR 19, Add	45.61	
			For SDR 17, Add	112.60	
			For SDR 15.5, Add	164.90	
			For SDR 13.5, Add	257.38	
			For SDR 11, Add	414.28	
33 14 13 23-0575	EA		20" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,274.68	162.65
			For SDR 26, Deduct	-143.20	
			For SDR 19, Add	70.31	
			For SDR 17, Add	173.60	
			For SDR 15.5, Add	254.22	
			For SDR 13.5, Add	396.80	
			For SDR 11, Add	638.68	
33 14 13 23-0576	EA		24" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,646.79	197.17
			For SDR 26, Deduct	-193.52	
			For SDR 19, Add	95.02	
			For SDR 17, Add	234.59	
			For SDR 15.5, Add	343.54	
			For SDR 13.5, Add	536.22	
			For SDR 11, Add	863.08	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)

See CSI section 22 11 16 00-0013 for galvanized steel pipe.

33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)**33 14 13 36-0001 Steel Piping (33 14 13 36)****33 14 13 36-0002 Welded, Plain End, Uncoated, Steel Piping (33 14 13 36-0001)**

Note: ASTM A252 steel pipe. See CSI section 33 14 13 43-0001 for pipe coatings, 33 14 13 43-0049 for pipe linings.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0004	LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	129.24	31.82
	For <100, Add	13.70	
	For >1,000, Deduct	-6.46	
33 14 13 36-0005	LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	155.04	31.82
	For <100, Add	14.99	
	For >1,000, Deduct	-7.75	
33 14 13 36-0006	LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	154.05	34.71
	For <100, Add	15.59	
	For >1,000, Deduct	-7.70	
33 14 13 36-0007	LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	186.66	34.71
	For <100, Add	17.22	
	For >1,000, Deduct	-9.33	
33 14 13 36-0008	LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	186.98	36.37
	For <100, Add	17.61	
	For >1,000, Deduct	-9.35	
33 14 13 36-0009	LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	212.35	36.37
	For <100, Add	18.88	
	For >1,000, Deduct	-10.62	
33 14 13 36-0010	LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	226.88	40.19
	For <100, Add	20.48	
	For >1,000, Deduct	-11.34	
33 14 13 36-0011	LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	247.15	40.19
	For <100, Add	21.49	
	For >1,000, Deduct	-12.36	
33 14 13 36-0012	LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	240.82	42.43
	For <100, Add	21.68	
	For >1,000, Deduct	-12.04	
33 14 13 36-0013	LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	256.47	42.43
	For <100, Add	22.47	
	For >1,000, Deduct	-12.82	
33 14 13 36-0014	LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	298.86	47.73
	For <100, Add	25.79	
	For >1,000, Deduct	-14.94	
33 14 13 36-0015	LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	324.51	47.73
	For <100, Add	27.07	
	For >1,000, Deduct	-16.23	

33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0017	LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	259.36	63.29
	For <100, Add	22.91	
	For >1,000, Deduct	-12.97	
33 14 13 36-0018	LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	308.09	69.62
	For <100, Add	26.40	
	For >1,000, Deduct	-15.40	
33 14 13 36-0019	LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	342.44	72.78
	For <100, Add	28.72	
	For >1,000, Deduct	-17.12	
33 14 13 36-0020	LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	386.33	82.27
	For <100, Add	32.37	
	For >1,000, Deduct	-19.32	
33 14 13 36-0021	LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	403.72	82.27
	For <100, Add	33.24	
	For >1,000, Deduct	-20.19	
33 14 13 36-0022	LF 20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	419.81	82.27
	For <100, Add	34.05	
	For >1,000, Deduct	-20.99	
33 14 13 36-0023	LF 20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	438.36	82.27
	For <100, Add	34.97	
	For >1,000, Deduct	-21.92	
33 14 13 36-0024	LF 24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	508.18	94.94
	For <100, Add	40.33	
	For >1,000, Deduct	-25.41	
33 14 13 36-0025	LF 24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	565.57	94.94
	For <100, Add	43.20	
	For >1,000, Deduct	-28.28	
33 14 13 36-0026	LF 24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	706.45	94.94
	For <100, Add	50.24	
	For >1,000, Deduct	-35.32	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0027	LF	30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	632.01	110.76
		For <100, Add	49.01	
		For >1,000, Deduct	-31.60	
33 14 13 36-0028	LF	30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	655.49	110.76
		For <100, Add	50.18	
		For >1,000, Deduct	-32.77	
33 14 13 36-0029	LF	30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	876.96	110.76
		For <100, Add	61.25	
		For >1,000, Deduct	-43.85	
33 14 13 36-0030	LF	36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	753.76	110.76
		For <100, Add	55.09	
		For >1,000, Deduct	-37.69	
33 14 13 36-0031	LF	36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	883.63	132.90
		For <100, Add	65.07	
		For >1,000, Deduct	-44.18	
33 14 13 36-0032	LF	36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,055.39	132.90
		For <100, Add	73.65	
		For >1,000, Deduct	-52.77	
33 14 13 36-0033	LF	36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,012.49	132.90
		For <100, Add	71.51	
		For >1,000, Deduct	-50.62	
33 14 13 36-0034	LF	42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,553.36	148.73
		For <100, Add	100.87	
		For >1,000, Deduct	-77.67	
33 14 13 36-0035	LF	42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	940.85	148.73
		For <100, Add	70.25	
		For >1,000, Deduct	-47.04	
33 14 13 36-0036	LF	48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,781.42	167.72
		For <100, Add	115.18	
		For >1,000, Deduct	-89.07	
33 14 13 36-0037	LF	48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,032.09	167.72
		For <100, Add	77.71	
		For >1,000, Deduct	-51.60	
33 14 13 36-0038	LF	54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,865.70	189.87
		For <100, Add	123.12	
		For >1,000, Deduct	-93.29	
33 14 13 36-0039	LF	54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,061.37	189.87
		For <100, Add	132.91	
		For >1,000, Deduct	-103.07	
33 14 13 36-0040	LF	60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,304.68	221.51
		For <100, Add	150.04	
		For >1,000, Deduct	-115.23	
33 14 13 36-0041	LF	66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,608.98	221.51
		For <100, Add	115.26	
		For >1,000, Deduct	-80.45	
33 14 13 36-0042	LF	72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,776.05	180.72
		For <100, Add	143.02	
		For >1,000, Deduct	-88.80	
33 14 13 36-0043	LF	78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	3,347.18	180.72
		For <100, Add	221.58	
		For >1,000, Deduct	-167.36	
33 14 13 36-0044		Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)		
33 14 13 36-0045	EA	2" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	166.50	32.42
		For 7" Length, Add	10.41	
33 14 13 36-0046	EA	3" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	233.43	62.36
		For 7" Length, Add	10.87	
33 14 13 36-0047	EA	4" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	310.53	82.30
		For 7" Length, Add	14.43	
33 14 13 36-0048	EA	6" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	500.86	124.70
		For 7" Length, Add	25.15	
33 14 13 36-0049	EA	8" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	660.92	157.13
		For 7" Length, Add	34.92	
33 14 13 36-0050	EA	10" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	910.09	183.07
		For 7" Length, Add	54.40	
33 14 13 36-0051	EA	12" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,071.76	229.44
		For 7" Length, Add	61.41	
33 14 13 36-0052	EA	14" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,155.56	229.44
		For 10" Length, Add	40.04	
33 14 13 36-0053	EA	16" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,218.30	244.08
		For 10" Length, Add	41.72	
33 14 13 36-0054	EA	18" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,339.35	280.70
		For 10" Length, Add	46.68	
33 14 13 36-0055	EA	20" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,461.67	317.31
		For 10" Length, Add	51.09	
33 14 13 36-0056	EA	24" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,881.05	335.61
		For 10" Length, Add	72.59	
33 14 13 36-0057	EA	30" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	2,282.04	366.13
		For 10" Length, Add	92.99	
33 14 13 36-0058	EA	36" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	2,689.05	411.89
		For 10" Length, Add	111.92	
33 14 13 36-0059	EA	42" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	3,117.49	463.77
		For 10" Length, Add	132.13	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0060 EA 48" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe For 10" Length, Add	3,625.33 153.45	533.93
33 14 13 36-0061 EA 54" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe For 10" Length, Add	4,007.59 167.23	610.21
33 14 13 36-0062 EA 60" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe For 10" Length, Add	4,569.97 182.67	762.77
33 14 13 36-0063 EA 66" Diameter x 10" Length, Dresser Coupling For Plain End Welded Steel Pipe For 12" Length, Add	5,239.57 170.45	927.53
33 14 13 36-0064 EA 72" Diameter x 10" Length, Dresser Coupling For Plain End Welded Steel Pipe For 12" Length, Add	6,239.69 202.15	1,098.38

33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)**33 14 13 39-0001 Type L Copper Water Distribution Piping (33 14 13 39)**

33 14 13 39-0002 LF 1/2" Type L Copper Water Distribution Pipe	9.19	2.29
33 14 13 39-0003 LF 3/4" Type L Copper Water Distribution Pipe	11.82	2.57
33 14 13 39-0004 LF 1" Type L Copper Water Distribution Pipe	15.74	2.87
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe	19.84	3.44
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe	24.58	4.58
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe	36.36	5.72
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe	45.61	6.87
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe	57.69	7.55
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe	77.37	9.50
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe	102.41	12.02
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe	167.11	14.99
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe	216.46	18.09
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe	378.06	20.26

33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)

33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe	9.86	2.29
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe	14.18	2.57
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe	18.08	2.87
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe	21.28	3.44
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe	26.72	4.58
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe	39.24	5.72
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe	53.60	6.87
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe	69.66	7.55
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe	91.44	9.50
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe	123.77	12.02
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe	211.30	14.99
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe	295.92	18.09
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe	524.70	20.26

33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps (33 14 13)**33 14 13 43-0001 Pipe Coatings (33 14 13 43)****33 14 13 43-0002 Epoxy Wrap And Pipe Coating (33 14 13 43-0001)**

Note: Applied at fabrication shop.

33 14 13 43-0003 LF 12" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	4.38	
33 14 13 43-0004 LF 14" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	5.82	
33 14 13 43-0005 LF 16" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	6.64	
33 14 13 43-0006 LF 18" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	6.98	
33 14 13 43-0007 LF 20" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	7.52	
33 14 13 43-0008 LF 24" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	8.76	
33 14 13 43-0009 LF 30" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	11.51	
33 14 13 43-0010 LF 36" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	18.18	
33 14 13 43-0011 LF 42" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	39.18	
33 14 13 43-0012 LF 48" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	44.78	
33 14 13 43-0013 LF 54" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	50.38	
33 14 13 43-0014 LF 60" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	55.98	
33 14 13 43-0015 LF 66" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	61.58	
33 14 13 43-0016 LF 72" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	67.15	
33 14 13 43-0017 LF 78" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	72.77	

33 14 13 43-0018 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)

Note: Applied at fabrication shop. Thickness ranging between 1" and 2".

33 14 13 43-0019 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh	9.11	
33 14 13 43-0020 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh	11.21	
33 14 13 43-0021 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh	14.01	
33 14 13 43-0022 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh	15.61	
33 14 13 43-0023 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh	17.62	
33 14 13 43-0024 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh	20.63	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0025	LF	16" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	23.43	
33 14 13 43-0026	LF	18" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	26.43	
33 14 13 43-0027	LF	20" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	29.38	
33 14 13 43-0028	LF	24" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	35.25	
33 14 13 43-0029	LF	30" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	44.06	
33 14 13 43-0030	LF	36" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	52.87	
33 14 13 43-0031	LF	42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	61.68	
33 14 13 43-0032	LF	48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	70.49	
33 14 13 43-0033	LF	54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	79.30	
33 14 13 43-0034	LF	60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	88.11	
33 14 13 43-0035	LF	66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	96.93	
33 14 13 43-0036	LF	72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	105.74	
33 14 13 43-0037	LF	78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	114.55	
33 14 13 43-0038		Epoxy Wrap And Fitting Coating (33 14 13 43-0001) Note: Applied at fabrication shop.		
33 14 13 43-0039	EA	4" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	11.12 0.49	
33 14 13 43-0040	EA	6" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	13.97 0.62	
33 14 13 43-0041	EA	8" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	20.34 0.81	
33 14 13 43-0042	EA	10" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	34.16 1.19	
33 14 13 43-0043	EA	12" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	52.18 1.75	
33 14 13 43-0044	EA	14" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	81.77 2.68	
33 14 13 43-0045	EA	16" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	125.81 3.45	
33 14 13 43-0046	EA	18" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	170.74 3.56	
33 14 13 43-0047	EA	20" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	233.01 4.26	
33 14 13 43-0048	EA	24" Outside Diameter, Epoxy Wrap And Fitting Coating..... <i>For 1/2" Thick, Add</i>	338.98 5.96	
33 14 13 43-0049		Cement Pipe Lining (33 14 13 43)		
33 14 13 43-0050		Cement Pipe Lining (33 14 13 43-0049) Note: Shop applied.		
33 14 13 43-0051	LF	4" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	14.76 1.21	
33 14 13 43-0052	LF	6" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	18.32 1.49	
33 14 13 43-0053	LF	8" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	22.36 1.87	
33 14 13 43-0054	LF	10" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	29.04 2.33	
33 14 13 43-0055	LF	12" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	35.75 2.81	
33 14 13 43-0056	LF	14" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	45.74 3.29	
33 14 13 43-0057	LF	16" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	59.37 3.73	
33 14 13 43-0058	LF	18" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	70.99 3.58	
33 14 13 43-0059	LF	20" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	85.82 3.98	
33 14 13 43-0060	LF	24" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	104.06 4.77	
33 14 13 43-0061	LF	30" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	125.19 5.97	
33 14 13 43-0062	LF	36" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	150.66 7.16	
33 14 13 43-0063	LF	42" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	175.81 6.14	
33 14 13 43-0064	LF	48" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	200.84 7.02	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0065	LF	54" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	225.99 7.90	
33 14 13 43-0066	LF	60" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	251.14 8.78	
33 14 13 43-0067	LF	66" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	276.18 5.15	
33 14 13 43-0068	LF	72" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	301.33 5.62	
33 14 13 43-0069	LF	78" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	326.47 6.08	
33 14 13 43-0070		Cement Fitting Lining (33 14 13 43-0049) Note: Shop applied.		
33 14 13 43-0071	EA	4" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	15.97 1.46	
33 14 13 43-0072	EA	6" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	20.19 1.87	
33 14 13 43-0073	EA	8" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	28.42 2.43	
33 14 13 43-0074	EA	10" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	46.90 3.74	
33 14 13 43-0075	EA	12" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	71.50 5.62	
33 14 13 43-0076	EA	14" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	106.18 7.56	
33 14 13 43-0077	EA	16" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	157.08 9.71	
33 14 13 43-0078	EA	18" Outside Diameter, 5/16" Thick Cement Fittings Lining..... <i>For 1/2" Thick, Add</i>	212.97 10.74	
33 14 13 43-0079	EA	20" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	285.92 13.25	
33 14 13 43-0080	EA	24" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	416.25 19.10	
33 14 13 43-0081		8 Mil Polyethylene Encasement Tubing (33 14 13 43) Note: ANSI/AWWA C105/A21.5-99 section 4.2.		
33 14 13 43-0082	LF	3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.10	
33 14 13 43-0083	LF	10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.86	
33 14 13 43-0084	LF	14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.32	
33 14 13 43-0085	LF	18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.93	
33 14 13 43-0086	LF	24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	4.07	
33 14 13 43-0087	LF	30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.27	
33 14 13 43-0088	LF	36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	6.68	
33 14 13 43-0089	LF	48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.97	
33 14 13 43-0090	LF	54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	9.50	
33 14 13 43-0091	LF	60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	10.56	
33 14 13 53		Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)		
33 14 13 53-0001		Double Stud Stainless Steel Service Saddles (33 14 13 53) Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.		
33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	283.57	
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	390.19	
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	403.95	
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	336.47	
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	419.74	
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	352.16	
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	439.89	
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	394.78	
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	463.46	
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	412.17	
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	474.81	
33 14 13 53-0013		Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53) Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.		
33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	243.09	
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	243.24	
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	258.86	
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	246.85	
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	264.02	
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	290.77	
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	309.10	
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	283.67	
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	310.63	
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	326.55	
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	299.42	
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	327.17	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	343.03	
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	315.64	
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	342.65	
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	358.33	
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	508.23	
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	521.99	
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	340.73	
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	372.98	
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	387.66	
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	597.86	
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	378.86	
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	417.17	
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	664.20	
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	410.56	
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	450.97	
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	467.45	
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	737.69	
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	474.10	
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	506.17	
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	543.42	
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	897.23	
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	487.86	
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	551.04	
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	573.89	
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	962.38	
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	509.61	
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	575.03	
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	598.44	
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	1,001.22	
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	560.88	
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	644.58	
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	634.19	
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	700.34	
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	661.96	
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	744.23	
33 14 13 53-0061		Double Bale Bronze Service Saddles (33 14 13 53)		
33 14 13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	329.22	
33 14 13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	358.83	
33 14 13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	373.66	
33 14 13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	403.53	
33 14 13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	414.14	
33 14 13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	435.22	
33 14 13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	404.49	
33 14 13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	429.58	
33 14 13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	504.24	
33 14 13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	543.77	
33 14 13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	739.10	
33 14 13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	831.12	
33 14 13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	856.19	
33 14 13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	952.00	
33 14 13 53-0076		Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)		
Note: Taps are compression or NPT.				
33 14 13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	344.29	
33 14 13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	377.85	
33 14 13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	391.46	
33 14 13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	423.86	
33 14 13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	436.14	
33 14 13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	458.40	
33 14 13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	488.36	
33 14 13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	521.73	
33 14 13 53-0085	EA	12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	524.40	
33 14 13 53-0086	EA	12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	566.53	
33 14 13 53-0087	EA	14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	789.06	
33 14 13 53-0088	EA	14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	901.77	
33 14 13 53-0089	EA	16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	915.47	
33 14 13 53-0090	EA	16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	995.02	
33 14 13 53-0091	EA	18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,013.45	
33 14 13 53-0092	EA	18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,013.45	
33 14 13 53-0093	EA	20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,090.51	
33 14 13 53-0094	EA	20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,090.51	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0095	EA	24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,243.81
33 14 13 53-0096	EA	24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,243.81

33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)

33 14 13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,492.25
33 14 13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,804.06
33 14 13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,152.44
33 14 13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,273.49
33 14 13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,399.14
33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,567.02
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,641.22
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,605.52
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,772.74
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,174.69
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,279.58
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,050.15
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,238.60
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,325.45
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,364.98
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,634.47
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,628.52
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,656.05
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,866.18
33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,918.67
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,976.05
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,110.13
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,368.46
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,562.96
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,032.63
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,175.41
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,595.52
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,938.12
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,588.08
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,769.60
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,842.82
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,192.30
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,680.92
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,955.81
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,985.96
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,154.32
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,204.21
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,777.32
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,996.32
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,051.35
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,516.24
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,741.13

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,228.51
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,313.05
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,431.37
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,479.64
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,540.44
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,758.31
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,618.91
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,678.20
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,870.15
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,543.38
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,825.74
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,911.02
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,099.98
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,703.46
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,939.47
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,379.42
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,450.59
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,851.96
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,348.70
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,672.98
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,817.52
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,890.88
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,157.79
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,866.75
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,037.04
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,002.47
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,132.46
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,311.65
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,145.26
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,315.36
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,610.11



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		
33 14 13 53-0172	EA 20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,683.32		
33 14 13 53-0173	EA 20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,081.00		
33 14 13 53-0174	EA 20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,750.99		
33 14 13 53-0175	EA 20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,037.34		
33 14 13 53-0176	EA 24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,904.15		
33 14 13 53-0177	EA 24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,060.31		
33 14 13 53-0178	EA 24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,269.93		
33 14 13 53-0179	EA 24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,219.37		
33 14 13 53-0180	EA 24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,396.57		
33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)				
33 14 13 53-0182	EA 4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,409.56		
33 14 13 53-0183	EA 6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,541.72		
33 14 13 53-0184	EA 6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,630.63		
33 14 13 53-0185	EA 8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,670.92		
33 14 13 53-0186	EA 8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,772.80		
33 14 13 53-0187	EA 8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,070.03		
33 14 13 53-0188	EA 10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,915.04		
33 14 13 53-0189	EA 10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,027.62		
33 14 13 53-0190	EA 10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,294.40		
33 14 13 53-0191	EA 10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,062.95		
33 14 13 53-0192	EA 12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,189.28		
33 14 13 53-0193	EA 12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,341.44		
33 14 13 53-0194	EA 12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,692.74		
33 14 13 53-0195	EA 12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,149.35		
33 14 13 53-0196	EA 12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,499.28		
33 14 13 53-0197	EA 14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,499.20		
33 14 13 53-0198	EA 14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,685.05		
33 14 13 53-0199	EA 14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,080.16		
33 14 13 53-0200	EA 14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,537.19		
33 14 13 53-0201	EA 14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,780.60		
33 14 13 53-0202	EA 16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,035.10		
33 14 13 53-0203	EA 16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,287.86		
33 14 13 53-0204	EA 16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,481.31		
33 14 13 53-0205	EA 16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,972.47		
33 14 13 53-0206	EA 16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,306.81		
33 14 13 53-0207	EA 18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,353.66		
33 14 13 53-0208	EA 18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,729.67		
33 14 13 53-0209	EA 18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,931.41		
33 14 13 53-0210	EA 18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,363.44		
33 14 13 53-0211	EA 18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,933.88		
33 14 13 53-0212	EA 20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,630.85		
33 14 13 53-0213	EA 20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,005.90		
33 14 13 53-0214	EA 20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,170.48		
33 14 13 53-0215	EA 20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,971.38		
33 14 13 53-0216	EA 20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,418.75		
33 14 13 53-0217	EA 24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,287.16		
33 14 13 53-0218	EA 24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,343.58		
33 14 13 53-0219	EA 24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,540.23		
33 14 13 53-0220	EA 24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,495.53		
33 14 13 53-0221	EA 24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	6,007.07		
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)				
33 14 13 53-0223	EA 3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	354.74		72.73
33 14 13 53-0224	EA 4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	444.65		91.70
33 14 13 53-0225	EA 6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	586.63		126.48
33 14 13 53-0226	EA 8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	755.21		148.62
33 14 13 53-0227	EA 10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,164.26		167.59
33 14 13 53-0228	EA 12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,301.47		189.73
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)				
33 14 13 53-0230	EA 3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	506.60		72.73
33 14 13 53-0231	EA 4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	600.91		91.70
33 14 13 53-0232	EA 6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	803.69		126.48
33 14 13 53-0233	EA 8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	981.12		148.62
33 14 13 53-0234	EA 10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,193.24		167.59
33 14 13 53-0235	EA 12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,388.62		189.73
33 14 13 53-0236	EA 14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,644.27		208.70
33 14 13 53-0237	EA 16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,940.95		227.67
33 14 13 53-0238	EA 18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,286.11		250.44
33 14 13 53-0239	EA 20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,694.78		275.49
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)				
33 14 13 53-0241	EA 4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	454.81		91.70
33 14 13 53-0242	EA 6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	611.70		126.48
33 14 13 53-0243	EA 8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	680.19		148.62

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0244 EA 10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	976.70	167.59
33 14 13 53-0245 EA 12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,236.08	189.73
33 14 13 53-0246 EA 14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,385.04	208.70
33 14 13 53-0247 EA 16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,622.23	227.67
33 14 13 53-0248 EA 18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,818.83	250.44
33 14 13 53-0249 EA 20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	2,177.38	275.49
33 14 13 53-0250 EA 24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	2,613.30	303.06
33 14 13 53-0251 EA 30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	5,343.89	333.29
33 14 13 53-0252 EA 36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	7,184.43	366.68
33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)		
33 14 13 53-0254 EA 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	166.27	50.59
33 14 13 53-0255 EA 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	204.33	60.08
33 14 13 53-0256 EA 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	252.41	72.73
33 14 13 53-0257 EA 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	317.09	91.70
33 14 13 53-0258 EA 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	424.44	126.48
33 14 13 53-0259 EA 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	513.99	148.62
33 14 13 53-0260 EA 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	636.12	167.59
33 14 13 53-0261 EA 12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	741.81	189.73
33 14 13 53-0262 EA 14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	1,023.59	208.70
33 14 13 53-0263 EA 16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	1,266.02	227.67
33 14 19 Valves and Hydrants for Water Utility Service (33 14)		
Note: Flanged valves excludes bolt and gasket set. Excludes excavation and backfill.		
33 14 19 00-0001 Accessories For Valves (33 14 19)		
33 14 19 00-0002 EA 1" Valve Extension Stem.....	119.26	
For Each Additional LF, Add 9.32		
33 14 19 00-0003 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly.....	1,763.01	124.70
Note: Excludes valve.		
33 14 19 00-0004 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly.....	1,999.32	137.17
Note: Excludes valve.		
33 14 19 00-0005 EA Adjust Water Valve Box To Grade.....	124.70	
33 14 19 00-0006 Water Utility Distribution Valves (33 14 19)		
33 14 19 00-0007 Angle Valves (33 14 19 00-0006)		
Note: For connecting meters to water service.		
33 14 19 00-0008 Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0007)		
Note: NIBCO T-335Y		
33 14 19 00-0009 EA 1/2" Diameter Threaded, Class 150, Bronze Angle Valve.....	110.41	21.67
33 14 19 00-0010 EA 3/4" Diameter Threaded, Class 150, Bronze Angle Valve.....	148.92	29.12
33 14 19 00-0011 EA 1" Diameter Threaded, Class 150, Bronze Angle Valve.....	199.44	35.88
33 14 19 00-0012 EA 1-1/4" Diameter Threaded, Class 150, Bronze Angle Valve.....	256.57	45.10
33 14 19 00-0013 EA 1-1/2" Diameter Threaded, Class 150, Bronze Angle Valve.....	319.18	52.13
33 14 19 00-0014 EA 2" Diameter Threaded, Class 150, Bronze Angle Valve.....	471.59	60.93
33 14 19 00-0015 EA 2-1/2" Diameter Threaded, Class 150, Bronze Angle Valve.....	750.97	83.17
33 14 19 00-0016 EA 3" Diameter Threaded, Class 150, Bronze Angle Valve.....	1,131.39	96.02
33 14 19 00-0017 Butterfly Valves (33 14 19 00-0006)		
33 14 19 00-0018 Lug Type Flanged, Cast Iron Disc, Butterfly Valves (33 14 19 00-0017)		
Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0019 EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified).....	2,212.70	230.19
33 14 19 00-0020 EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified).....	2,473.41	230.19
33 14 19 00-0021 EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified).....	2,498.34	356.28
33 14 19 00-0022 EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified).....	2,756.82	356.28
33 14 19 00-0023 EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified).....	2,866.82	420.20
33 14 19 00-0024 EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified).....	3,125.30	420.20
33 14 19 00-0025 EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified).....	3,242.86	536.93
33 14 19 00-0026 EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified).....	3,499.86	536.93



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0027	EA	10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	4,065.87	653.65	
33 14 19 00-0028	EA	10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8)	4,065.87	653.65	
33 14 19 00-0029	EA	12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	4,656.62	792.29	
33 14 19 00-0030	EA	12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified)	4,915.10	792.29	
33 14 19 00-0031	EA	14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD12 Modified)	6,255.03	1,123.85	
33 14 19 00-0032	EA	14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW12 Modified)	6,930.94	1,123.85	
33 14 19 00-0033	EA	16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD16 Modified)	7,282.36	1,236.24	
33 14 19 00-0034	EA	16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW20 Modified)	8,111.28	1,236.24	
33 14 19 00-0035	EA	18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD24 Modified)	9,120.66	1,371.10	
33 14 19 00-0036	EA	18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD24 Modified)	9,998.60	1,371.10	
33 14 19 00-0037	EA	20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD24 Modified)	10,451.05	1,545.30	
33 14 19 00-0038	EA	20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW24 Modified)	11,327.50	1,545.30	
33 14 19 00-0039		Lug Type Flanged, Ductile Iron Disc, Butterfly Valves (33 14 19 00-0017) Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin			
33 14 19 00-0040	EA	24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20 Modified)	17,429.12	1,896.51	
33 14 19 00-0041	EA	24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10 Modified)	27,979.99	1,896.51	
33 14 19 00-0042	EA	24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20 Modified)	17,376.98	1,896.51	
33 14 19 00-0043	EA	30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified)	28,530.26	2,993.72	
33 14 19 00-0044	EA	36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified)	56,294.56	3,991.63	
33 14 19 00-0045	EA	42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32 Modified)	66,643.00	5,987.45	
33 14 19 00-0046	EA	48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24 Modified)	84,536.60	7,484.31	
33 14 19 00-0047	EA	54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24 Modified)	118,022.86	8,981.17	
33 14 19 00-0048	EA	60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36 Modified)	147,861.49	10,777.40	
33 14 19 00-0049	EA	72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36 Modified)	212,009.91	12,932.88	
33 14 19 00-0050	LF	3/16" Link, 316 Stainless Steel Chain For Use With DeZurik Chainwheel	19.48		
33 14 19 00-0051	EA	316 Stainless Steel Closing Link For Use With DeZurik Chainwheel Note: One required per valve.	10.25		
33 14 19 00-0052		Check Valves (33 14 19 00-0006)			
33 14 19 00-0053		Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0052) Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.			
33 14 19 00-0054	EA	2-1/2" Flanged, Swing Type Gravity Operated Check Valve	1,829.43	180.82	
33 14 19 00-0055	EA	3" Flanged, Swing Type Gravity Operated Check Valve	1,868.02	211.99	
33 14 19 00-0056	EA	4" Flanged, Swing Type Gravity Operated Check Valve	2,511.07	268.11	
33 14 19 00-0057	EA	4" x 6" Flanged, Swing Type Gravity Operated Check Valve	3,599.65	403.41	
33 14 19 00-0058	EA	4" x 8" Flanged, Swing Type Gravity Operated Check Valve	3,721.62	450.53	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0059 EA 6" Flanged, Swing Type Gravity Operated Check Valve.....	3,536.68	448.92
33 14 19 00-0060 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	4,664.85	510.30
33 14 19 00-0061 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....	4,847.83	573.63
33 14 19 00-0062 EA 8" Flanged, Swing Type Gravity Operated Check Valve.....	5,064.88	573.63
33 14 19 00-0063 EA 10" Flanged, Swing Type Gravity Operated Check Valve.....	8,682.19	698.33
33 14 19 00-0064 EA 12" Flanged, Swing Type Gravity Operated Check Valve.....	13,271.77	523.75
33 14 19 00-0065 EA 14" Flanged, Swing Type Gravity Operated Check Valve.....	18,694.82	1,123.85
33 14 19 00-0066 EA 16" Flanged, Swing Type Gravity Operated Check Valve.....	24,978.82	1,236.24
33 14 19 00-0067 EA 18" Flanged, Swing Type Gravity Operated Check Valve.....	36,421.53	1,371.10
33 14 19 00-0068 EA 20" Flanged, Swing Type Gravity Operated Check Valve.....	42,426.47	1,545.30
33 14 19 00-0069 Combination Air Release Valves (33 14 19 00-0066)		
33 14 19 00-0070 EA 1" Combination Air Release Valve	634.92	26.19
33 14 19 00-0071 EA 2" Combination Air Release Valve	1,025.41	44.89
33 14 19 00-0072 Corporation Stop And Curb Valve (33 14 19 00-0066)		
Note: AWWA C800		
33 14 19 00-0073 Ball Corporation Valves (33 14 19 00-0072)		
Note: Mueller B-25000.		
33 14 19 00-0074 EA 3/4" Ball Corporation Valve (Mueller B-25000)	89.18	26.19
33 14 19 00-0075 EA 1" Ball Corporation Valve (Mueller B-25000)	111.74	32.42
33 14 19 00-0076 EA 1-1/2" Ball Corporation Valve (Mueller B-25000)	194.81	47.38
33 14 19 00-0077 EA 2" Ball Corporation Valve (Mueller B-25000)	286.04	56.12
33 14 19 00-0078 Gate Valve, AWWA C500 And C509 (33 14 19 00-0066)		
33 14 19 00-0079 Gate Valve, Flanged (33 14 19 00-0078)		
Note: Mueller A-2380-6.		
33 14 19 00-0080 EA 2" Gate Valve, Flanged	1,112.06	166.23
33 14 19 00-0081 EA 2-1/2" Gate Valve, Flanged	1,306.43	180.82
33 14 19 00-0082 EA 3" Gate Valve, Flanged	1,546.63	211.99
33 14 19 00-0083 EA 4" Gate Valve, Flanged	1,963.06	265.61
33 14 19 00-0084 EA 6" Gate Valve, Flanged	2,477.23	448.92
33 14 19 00-0085 EA 8" Gate Valve, Flanged	3,703.63	573.63
33 14 19 00-0086 EA 10" Gate Valve, Flanged	5,626.03	698.33
33 14 19 00-0087 EA 12" Gate Valve, Flanged	6,786.19	523.75
33 14 19 00-0088 EA 14" Gate Valve, Flanged	15,110.34	1,123.85
33 14 19 00-0089 EA 16" Gate Valve, Flanged	19,859.92	1,236.24
33 14 19 00-0090 EA 18" Gate Valve, Flanged	31,691.73	1,371.10
33 14 19 00-0091 EA 20" Gate Valve, Flanged	37,935.62	1,545.30
33 14 19 00-0092 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0078)		
Note: Mueller A-2360-6.		
33 14 19 00-0093 EA 2" Resilient Wedge Gate Valve, Flanged	1,060.91	166.23
33 14 19 00-0094 EA 2-1/2" Resilient Wedge Gate Valve, Flanged	1,245.31	180.82
33 14 19 00-0095 EA 3" Resilient Wedge Gate Valve, Flanged	1,474.11	211.99
33 14 19 00-0096 EA 4" Resilient Wedge Gate Valve, Flanged	1,881.99	265.61
33 14 19 00-0097 EA 6" Resilient Wedge Gate Valve, Flanged	2,368.86	448.92
33 14 19 00-0098 EA 8" Resilient Wedge Gate Valve, Flanged	3,534.35	573.63
33 14 19 00-0099 EA 10" Resilient Wedge Gate Valve, Flanged	5,357.01	698.33
33 14 19 00-0100 EA 12" Resilient Wedge Gate Valve, Flanged	6,461.38	523.75
33 14 19 00-0101 Gate Valve, Mechanical Joint (33 14 19 00-0078)		
Note: Mueller A-2380-20.		
33 14 19 00-0102 EA 2" Gate Valve, Mechanical Joint	1,297.24	132.81
33 14 19 00-0103 EA 2-1/2" Gate Valve, Mechanical Joint	1,391.85	166.47
33 14 19 00-0104 EA 3" Gate Valve, Mechanical Joint	1,753.49	201.39
33 14 19 00-0105 EA 4" Gate Valve, Mechanical Joint	2,076.24	265.61
33 14 19 00-0106 EA 6" Gate Valve, Mechanical Joint	2,623.44	311.76
33 14 19 00-0107 EA 8" Gate Valve, Mechanical Joint	3,859.55	374.10
33 14 19 00-0108 EA 10" Gate Valve, Mechanical Joint	5,708.11	436.46
33 14 19 00-0109 EA 12" Gate Valve, Mechanical Joint	7,158.98	523.75
33 14 19 00-0110 EA 14" Gate Valve, Mechanical Joint	16,098.98	688.36
33 14 19 00-0111 EA 16" Gate Valve, Mechanical Joint	20,901.51	772.65
33 14 19 00-0112 EA 18" Gate Valve, Mechanical Joint	33,554.70	856.94
33 14 19 00-0113 EA 20" Gate Valve, Mechanical Joint	39,948.64	965.81
33 14 19 00-0114 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0078)		
Note: Mueller A-2360-20.		
33 14 19 00-0115 EA 2" Resilient Wedge Gate Valve, Mechanical Joint	1,238.83	132.81
33 14 19 00-0116 EA 3" Resilient Wedge Gate Valve, Mechanical Joint	1,677.03	201.39
33 14 19 00-0117 EA 4" Resilient Wedge Gate Valve, Mechanical Joint	1,988.78	265.61
33 14 19 00-0118 EA 6" Resilient Wedge Gate Valve, Mechanical Joint	2,510.25	311.76
33 14 19 00-0119 EA 8" Resilient Wedge Gate Valve, Mechanical Joint	3,683.46	374.10
33 14 19 00-0120 EA 10" Resilient Wedge Gate Valve, Mechanical Joint	5,434.44	436.46



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		Water Utilities	33 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0121 EA 12" Resilient Wedge Gate Valve, Mechanical Joint	6,812.99	523.75
33 14 19 00-0122 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0078)		
Note: Mueller A-2361.		
33 14 19 00-0123 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	10,720.19	1,123.85
33 14 19 00-0124 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	11,651.87	1,236.24
33 14 19 00-0125 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	18,253.85	1,371.10
33 14 19 00-0126 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	21,801.06	1,545.30
33 14 19 00-0127 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	31,011.27	1,896.51
33 14 19 00-0128 Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0078)		
Note: NIBCO T-113.		
33 14 19 00-0129 EA 1/4" Diameter Threaded, Bronze, Gate Valve	66.34	21.80
33 14 19 00-0130 EA 3/8" Diameter Threaded, Bronze, Gate Valve	68.41	21.80
33 14 19 00-0131 EA 1/2" Diameter Threaded, Bronze, Gate Valve	68.04	21.80
33 14 19 00-0132 EA 3/4" Diameter Threaded, Bronze, Gate Valve	87.91	29.45
33 14 19 00-0133 EA 1" Diameter Threaded, Bronze, Gate Valve	108.24	35.61
33 14 19 00-0134 EA 1-1/4" Diameter Threaded, Bronze, Gate Valve	146.41	45.10
33 14 19 00-0135 EA 1-1/2" Diameter Threaded, Bronze, Gate Valve	169.83	52.13
33 14 19 00-0136 EA 2" Diameter Threaded, Bronze, Gate Valve	205.72	60.93
33 14 19 00-0137 EA 2-1/2" Diameter Threaded, Bronze, Gate Valve	388.71	83.17
33 14 19 00-0138 EA 3" Diameter Threaded, Bronze, Gate Valve	465.13	95.40
33 14 19 00-0139 Globe Valve, AWWA (33 14 19 00-0006)		
33 14 19 00-0140 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0139)		
Note: NIBCO T-235.		
33 14 19 00-0141 EA 1/8" Diameter Threaded, Globe Valve	92.53	21.80
33 14 19 00-0142 EA 1/4" Diameter Threaded, Globe Valve	88.36	21.80
33 14 19 00-0143 EA 3/8" Diameter Threaded, Globe Valve	90.43	21.80
33 14 19 00-0144 EA 1/2" Diameter Threaded, Globe Valve	92.53	21.80
33 14 19 00-0145 EA 3/4" Diameter Threaded, Globe Valve	125.64	29.45
33 14 19 00-0146 EA 1" Diameter Threaded, Globe Valve	175.02	35.61
33 14 19 00-0147 EA 1-1/4" Diameter Threaded, Globe Valve	254.36	45.10
33 14 19 00-0148 EA 1-1/2" Diameter Threaded, Globe Valve	303.27	52.13
33 14 19 00-0149 EA 2" Diameter Threaded, Globe Valve	420.57	60.93
33 14 19 00-0150 EA 2-1/2" Diameter Threaded, Globe Valve	765.76	83.17
33 14 19 00-0151 EA 3" Diameter Threaded, Globe Valve	1,044.47	95.89
33 14 19 00-0152 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0006)		
33 14 19 00-0153 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0152)		
Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0154 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,599.56	166.23
33 14 19 00-0155 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,061.75	211.99
33 14 19 00-0156 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,460.64	265.61
33 14 19 00-0157 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	3,237.59	448.92
33 14 19 00-0158 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	4,678.80	573.63
33 14 19 00-0159 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	6,811.09	698.33
33 14 19 00-0160 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	10,123.09	523.75
33 14 19 00-0161 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	18,542.66	1,123.85
33 14 19 00-0162 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	23,494.46	1,236.24
33 14 19 00-0163 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	38,136.39	1,371.10
33 14 19 00-0164 Fire Hydrants (33 14 19)		
Note: Breakaway type.		
33 14 19 00-0165 Three Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0164)		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0166 EA 1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,763.91	326.82
33 14 19 00-0167 EA 2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,833.58	326.82
33 14 19 00-0168 EA 2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,903.44	326.82
33 14 19 00-0169 EA 3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,996.31	350.17
33 14 19 00-0170 EA 3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,066.05	350.17
33 14 19 00-0171 EA 4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,165.04	379.35
33 14 19 00-0172 EA 4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,234.68	379.35
33 14 19 00-0173 EA 5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,333.69	408.53
33 14 19 00-0174 EA 5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,403.43	408.53
33 14 19 00-0175 EA 6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,502.24	437.71
33 14 19 00-0176 EA 6-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,601.14	466.89
33 14 19 00-0177 EA 7" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,729.11	525.25
33 14 19 00-0178 EA 1-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,827.49	326.82
33 14 19 00-0179 EA 2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,917.91	326.82
33 14 19 00-0180 EA 2-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,008.11	326.82
33 14 19 00-0181 EA 3" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,121.66	350.17
33 14 19 00-0182 EA 3-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,211.86	350.17
33 14 19 00-0183 EA 4" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,331.57	379.35

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0184	EA	4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,421.66	379.35
33 14 19 00-0185	EA	5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,541.13	408.53
33 14 19 00-0186	EA	5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,631.30	408.53
33 14 19 00-0187	EA	6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,750.52	437.71
33 14 19 00-0188	EA	6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,870.13	466.89
33 14 19 00-0189	EA	7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	5,018.53	525.25
33 14 19 00-0190 Two Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0164)				
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0191	EA	1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,381.45	326.82
33 14 19 00-0192	EA	2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,450.88	326.82
33 14 19 00-0193	EA	2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,520.71	326.82
33 14 19 00-0194	EA	3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,613.87	350.17
33 14 19 00-0195	EA	3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,683.39	350.17
33 14 19 00-0196	EA	4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,782.23	379.35
33 14 19 00-0197	EA	4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,851.97	379.35
33 14 19 00-0198	EA	5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,951.05	408.53
33 14 19 00-0199	EA	5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,020.64	408.53
33 14 19 00-0200	EA	6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,119.83	437.71
33 14 19 00-0201	EA	6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,218.28	466.89
33 14 19 00-0202	EA	7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,346.41	525.25
33 14 19 00-0203	EA	1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,479.67	326.82
33 14 19 00-0204	EA	2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,569.89	326.82
33 14 19 00-0205	EA	2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,659.98	326.82
33 14 19 00-0206	EA	3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,773.75	350.17
33 14 19 00-0207	EA	3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,863.72	350.17
33 14 19 00-0208	EA	4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,983.28	379.35
33 14 19 00-0209	EA	4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,073.30	379.35
33 14 19 00-0210	EA	5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,193.06	408.53
33 14 19 00-0211	EA	5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,283.03	408.53
33 14 19 00-0212	EA	6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,402.57	437.71
33 14 19 00-0213	EA	6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,521.72	466.89
33 14 19 00-0214	EA	7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,670.62	525.25
33 14 19 00-0215 Three Way, Modern Model Fire Hydrant (33 14 19 00-0164)				
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0216	EA	1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,926.52	326.82
33 14 19 00-0217	EA	2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,016.60	326.82
33 14 19 00-0218	EA	2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,106.96	326.82
33 14 19 00-0219	EA	3' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,220.55	350.17
33 14 19 00-0220	EA	3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,310.70	350.17
33 14 19 00-0221	EA	4' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,430.08	379.35
33 14 19 00-0222	EA	4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,520.35	379.35
33 14 19 00-0223	EA	5' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,639.75	408.53
33 14 19 00-0224	EA	5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,729.93	408.53
33 14 19 00-0225	EA	6' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,849.30	408.53
33 14 19 00-0226	EA	6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,968.95	466.89
33 14 19 00-0227	EA	7' Burial Section, Three Way, Modern Type Fire Hydrant.....	5,116.41	466.89
33 14 19 00-0228 Two Way, Modern Model Fire Hydrant (33 14 19 00-0164)				
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0229	EA	1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,796.93	326.82
33 14 19 00-0230	EA	2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,865.48	326.82
33 14 19 00-0231	EA	2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,934.80	326.82
33 14 19 00-0232	EA	3' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,025.90	350.17
33 14 19 00-0233	EA	3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,094.44	350.17
33 14 19 00-0234	EA	4' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,192.15	379.35
33 14 19 00-0235	EA	4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,260.66	379.35
33 14 19 00-0236	EA	5' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,358.46	408.53
33 14 19 00-0237	EA	5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,426.80	408.53
33 14 19 00-0238	EA	6' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,524.53	437.71
33 14 19 00-0239	EA	6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,622.34	466.89
33 14 19 00-0240	EA	7' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,748.38	525.25
33 14 19 00-0241 Safetop Model With Breakable Section (33 14 19 00-0164)				
Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0242	EA	4" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,822.04	233.44
33 14 19 00-0243	EA	6" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	3,019.92	262.63
33 14 19 00-0244	EA	8" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	3,293.41	291.80
33 14 19 00-0245 Fire Hydrant Extension Kits (33 14 19 00-0164)				
33 14 19 00-0246	EA	6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	585.21	29.19
33 14 19 00-0247	EA	12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	695.64	36.47
33 14 19 00-0248	EA	18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	759.40	43.77
33 14 19 00-0249	EA	24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	863.88	53.98
33 14 19 00-0250	EA	30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,300.28	56.18



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0251	EA	36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,388.50	58.36
33 14 19 00-0252	EA	42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,409.97	61.28
33 14 19 00-0253	EA	48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,489.38	65.66
33 14 19 00-0254	EA	54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,643.06	78.79
33 14 19 00-0255	EA	60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,735.85	94.83
33 14 19 00-0256	EA	6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	650.95	32.68
33 14 19 00-0257	EA	12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	771.21	39.69
33 14 19 00-0258	EA	18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	885.28	47.86
33 14 19 00-0259	EA	24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	990.62	59.53
33 14 19 00-0260	EA	30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,353.13	61.86
33 14 19 00-0261	EA	36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,442.50	64.19
33 14 19 00-0262	EA	42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,504.29	67.70
33 14 19 00-0263	EA	48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,758.44	72.37
33 14 19 00-0264	EA	54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,928.36	86.37
33 14 19 00-0265	EA	60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	2,028.46	103.88
33 14 19 00-0266 Removal And Reinstallation Of Standard Fire Hydrant (33 14 19 00-0164)				
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.				
33 14 19 00-0267	EA	Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	933.78	
33 14 19 00-0268	EA	>5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,361.77	
33 14 19 00-0269	EA	Reset Fire Hydrant Upper Barrel	1,465.12	
Note: Includes Safety Repair Kit				
33 14 19 00-0270 Yard Hydrants (33 14 19)				
Note: With 3/4" hose thread outlet.				
33 14 19 00-0271	EA	2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	398.01	40.63
33 14 19 00-0272	EA	4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	426.85	40.63
33 14 19 00-0273	EA	6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	455.68	40.63
33 14 19 00-0274	EA	2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	370.94	51.45
33 14 19 00-0275	EA	4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	388.14	51.45
33 14 19 00-0276	EA	6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	405.33	51.45
33 14 19 00-0277 Sanitary Yard Hydrants (33 14 19)				
Note: With 3/4" hose thread outlet.				
33 14 19 00-0278	EA	2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,766.08	84.63
33 14 19 00-0279	EA	4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,856.19	84.63
33 14 19 00-0280	EA	6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,946.30	84.63
33 14 19 00-0281 Flushing Hydrants (33 14 19)				
33 14 19 00-0282	EA	2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	928.21	52.44
33 14 23 Enclosures for Water Utility Piping and Valves (33 14)				
Note: Excludes excavation and backfill. See CSI section 22 11 00-0449 for Enclosures.				
33 14 23 00-0001 Roadway Utility Box (33 14 23)				
33 14 23 00-0002 Utility Box (33 14 23 00-0001)				
Note: Christy Concrete Products.				
33 14 23 00-0003 B3 Utility Box, 9-3/8" x 15-1/2" (33 14 23 00-0002)				
33 14 23 00-0004	EA	9-3/8" x 15-1/2" Precast Concrete Utility Box.....	136.79	62.10
33 14 23 00-0005	EA	Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	137.60	6.90
33 14 23 00-0006	EA	Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	57.35	6.90
33 14 23 00-0007	EA	Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	300.75	6.90
33 14 23 00-0008	EA	12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	81.36	13.80
33 14 23 00-0009	EA	3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	116.82	13.80
33 14 23 00-0010 B9 Utility Box, 10-1/4" x 17-1/4" (33 14 23 00-0002)				
33 14 23 00-0011	EA	10-1/4" x 17-1/4" Precast Concrete Utility Box.....	165.99	82.79
33 14 23 00-0012	EA	Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	161.18	8.28
33 14 23 00-0013	EA	Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	63.65	8.28
33 14 23 00-0014	EA	Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	315.51	6.90
33 14 23 00-0015	EA	13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	91.11	13.80
33 14 23 00-0016	EA	5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	122.08	20.70
33 14 23 00-0017	EA	12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	144.89	37.95
33 14 23 00-0018 B12 Utility Box, 12" x 20" (33 14 23 00-0002)				
33 14 23 00-0019	EA	12" x 20" Precast Concrete Utility Box.....	182.47	89.69
33 14 23 00-0020	EA	Cast Iron Lid For 12" x 20" Utility Box.....	290.15	10.35
33 14 23 00-0021	EA	Reinforced Concrete Lid For 12" x 20" Utility Box.....	85.42	13.80
33 14 23 00-0022	EA	Steel Checkered Plate Cover For 12" x 20" Utility Box	424.43	13.80
33 14 23 00-0023	EA	12" High Reinforced Concrete Extension For 12" x 20" Utility Box.....	188.90	48.30

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0024	B16 Utility Box, 12" x 22-1/4" (33 14 23 00-0002)			
33 14 23 00-0025	EA	12" x 22-1/4" Precast Concrete Utility Box.....	210.06	104.87
33 14 23 00-0026	EA	Cast Iron Lid For 12" x 22-1/4" Utility Box.....	327.88	13.80
33 14 23 00-0027	EA	Reinforced Concrete Lid For 12" x 22-1/4" Utility Box.....	105.53	13.80
33 14 23 00-0028	EA	Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box.....	426.83	13.80
33 14 23 00-0029	EA	16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box.....	148.26	23.46
33 14 23 00-0030	EA	12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box.....	192.24	48.30
33 14 23 00-0031	B30 Utility Box, 13-1/4" x 24" (33 14 23 00-0002)			
33 14 23 00-0032	EA	13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX).....	253.03	124.19
33 14 23 00-0033	EA	Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D).....	142.20	22.08
33 14 23 00-0034	EA	Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G).....	527.69	17.94
33 14 23 00-0035	EA	16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	148.26	23.46
33 14 23 00-0036	EA	5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA).....	227.17	38.63
33 14 23 00-0037	EA	6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6).....	177.35	26.22
33 14 23 00-0038	EA	12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	249.10	62.10
33 14 23 00-0039	B36 Utility Box, 17-1/4" x 30" (33 14 23 00-0002)			
33 14 23 00-0040	EA	17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX).....	330.64	157.31
33 14 23 00-0041	EA	Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D).....	231.73	37.95
33 14 23 00-0042	EA	Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D).....	661.54	26.22
33 14 23 00-0043	EA	20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....	209.04	49.67
33 14 23 00-0044	EA	6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA).....	353.32	55.20
33 14 23 00-0045	EA	12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12).....	332.55	80.03
33 14 23 00-0046	B40 Utility Box, 24-1/2" x 36" (33 14 23 00-0002)			
33 14 23 00-0047	EA	24-1/2" x 36" Precast Concrete Utility Box.....	683.51	242.86
33 14 23 00-0048	EA	Reinforced Concrete Lid For 24-1/2" x 36" Utility Box.....	633.96	91.07
33 14 23 00-0049	EA	Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box.....	939.68	40.02
33 14 23 00-0050	EA	30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box.....	518.50	85.55
33 14 23 00-0051	EA	10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box.....	550.10	89.69
33 14 23 00-0052	B48 Utility Box, 30-1/4" x 48-1/4" (33 14 23 00-0002)			
33 14 23 00-0053	EA	30-1/4" x 48-1/4" Precast Concrete Utility Box.....	864.87	275.98
33 14 23 00-0054	EA	1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	874.19	150.41
33 14 23 00-0055	EA	2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	1,101.68	150.41
33 14 23 00-0056	EA	2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box.....	1,487.73	68.99
33 14 23 00-0057	EA	36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box.....	754.39	186.29
33 14 23 00-0058	EA	10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box.....	680.11	125.57
33 14 23 00-0059	Roadway Or Curb Valve Boxes (33 14 23)			
33 14 23 00-0060	Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 23 00-0059)			
33 14 23 00-0061	EA	36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	251.33	16.46
		Note: Includes cover, top section and bottom section.		
33 14 23 00-0062	EA	36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	291.52	16.46
		Note: Includes cover, top section and bottom section.		
33 14 23 00-0063	EA	42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	293.37	16.46
		Note: Includes cover, top section and bottom section.		
33 14 23 00-0064	EA	9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	76.11	8.23
33 14 23 00-0065	EA	16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	86.75	8.23
33 14 23 00-0066	EA	24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	102.76	8.23
33 14 23 00-0067	EA	36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box.....	378.26	20.57
		Note: Includes cover, top section and bottom section.		
33 14 23 00-0068	EA	45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	653.95	28.81
		Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0069	EA	45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	728.93	28.81
		Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0070	EA	24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	393.13	20.57
		Note: Includes cover, top section and bottom section.		
33 14 23 00-0071	EA	36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	411.04	20.57
		Note: Includes cover, top section and bottom section.		
33 14 23 00-0072	EA	24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	397.36	20.57
		Note: Includes cover, top section and bottom section.		
33 14 23 00-0073	EA	12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	144.15	8.23
33 14 23 00-0074	EA	18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	244.02	33.86
33 14 23 00-0075	EA	22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	252.15	35.21
33 14 23 00-0076	EA	30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	280.62	36.56
33 14 23 00-0077	EA	36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box.....	383.69	38.59
33 14 23 00-0078	EA	48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	462.10	40.63
33 14 23 00-0079	EA	18" Cast Iron Service Box Extension Section.....	107.94	
33 14 23 00-0080	Plastic Roadway Grade Water Meter Box And Cover (33 14 23 00-0059)			
33 14 23 00-0081	EA	12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover.....	334.65	47.40



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0082	EA	9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	251.41	33.86
33 14 23 00-0083	EA	Cast Iron Lid For Plastic Meter Box	74.48	
33 14 23 00-0084 Traffic Valve Box And Lid (33 14 23 00-0059)				
33 14 23 00-0085	EA	10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5)	239.60	
33 14 23 00-0086	EA	14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12)	767.59	
33 14 23 00-0087 Roadway Valve Box Cover Adjustment (33 14 23)				
Note: Excludes asphalt See CSI section 02 41 13 13-0036 for breakup and removal of pavement, 02 41 19 13-0057 for saw cutting pavement if required, 32 12 16 13-0023 for hand placed hot mix asphalt.				
33 14 23 00-0088	EA	Up To 3" Rise, Up To 6" Diameter, Adjustment To Roadway Valve Cover.....	338.33	
33 14 23 00-0089 Roadway Utility Box Cover Adjustment (33 14 23)				
Note: Excludes asphalt See CSI section 02 41 13 13-0036 for breakup and removal of pavement, 02 41 19 13-0057 for saw cutting pavement if required, 32 12 16 13-0023 for hand placed hot mix asphalt.				
33 14 23 00-0090	EA	Up To 6" Rise, Up To 2 SF, Adjustment To Roadway Utility Cover	669.72	
33 14 23 00-0091	EA	Up To 6" Rise, >2 To 4 SF, Adjustment To Roadway Utility Cover.....	854.98	
33 14 23 00-0092	EA	Up To 6" Rise, >4 To 6 SF, Adjustment To Roadway Utility Cover.....	1,220.85	
33 14 23 00-0093	EA	Up To 6" Rise, >6 To 10 SF, Adjustment To Roadway Utility Cover.....	1,488.65	
33 19 Water Utility Metering Equipment (33 19)				
33 19 13 Positive Displacement Water Meters (33 19)				
33 19 13 23 Nutating Disc Water Meters (33 19 13)				
33 19 13 23-0001 Bronze Disk Type Water Service Meters (33 19 13 23)				
33 19 13 23-0002	EA	5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter	339.39	70.41
33 19 13 23-0003	EA	3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter	426.31	83.96
33 19 13 23-0004	EA	1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter	571.54	96.14
33 19 13 23-0005	EA	1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,109.50	143.53
33 19 13 23-0006	EA	2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,502.92	186.86
33 19 13 23-0007 Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 13 23)				
33 19 13 23-0008	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	619.10	70.41
For Owner Furnished Material, Deduct			-547.83	
33 19 13 23-0009	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	706.07	83.96
For Owner Furnished Material, Deduct			-621.44	
33 19 13 23-0010	EA	1" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	1,050.26	96.14
For Owner Furnished Material, Deduct			-953.54	
33 19 13 23-0011	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	1,776.70	143.53
For Owner Furnished Material, Deduct			-1,632.65	
33 19 13 23-0012	EA	2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	2,199.96	186.86
For Owner Furnished Material, Deduct			-2,011.89	
33 19 13 23-0013	EA	Electronic Transmitter.....	500.73	33.86
Note: For use with transmitting meter valve.				
For Owner Furnished Material, Deduct			-466.87	
33 19 16 Velocity-Type Water Meters (33 19)				
33 19 16 23 Turbine Water Meters (33 19 16)				
33 19 16 23-0001 Flanged Turbine Water Service Meter (33 19 16 23)				
33 19 16 23-0002 Vertical Turbine Meters (33 19 16 23-0001)				
33 19 16 23-0003	EA	1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged	1,330.16	130.94
33 19 16 23-0004	EA	2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	1,870.01	166.23
33 19 16 23-0005	EA	3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	3,471.38	211.99
33 19 16 23-0006	EA	4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	5,175.75	331.70
33 19 16 23-0007	EA	6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	9,820.77	448.92
33 19 16 23-0008 Horizontal Turbine Meters (33 19 16 23-0001)				
33 19 16 23-0009	EA	1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged	2,107.55	130.94
33 19 16 23-0010	EA	2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged	2,979.83	166.23
33 19 16 23-0011	EA	3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged	3,916.33	211.99
33 19 16 23-0012	EA	4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged	5,763.91	331.70
33 19 16 23-0013	EA	6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged	11,963.70	448.92
33 19 16 23-0014	EA	8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged	16,006.36	573.63
33 19 16 23-0015	EA	10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged	22,377.30	698.33
33 19 16 23-0016	EA	12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged	26,927.92	1,101.11
33 19 19 Compound Water Meters (33 19)				
33 19 19 00-0001 Flanged Compound Type Water Service Meter (33 19 19)				

33 Utilities**33 10 Water Utilities****33 19 Water Utility Metering Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 19 19 00-0002	EA	2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter	5,644.44	166.23
33 19 19 00-0003	EA	3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter	6,836.66	211.99
33 19 19 00-0004	EA	4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter	11,307.92	331.70
33 19 19 00-0005	EA	6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter	15,819.96	448.92
33 19 19 00-0006	EA	8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter	32,623.05	573.63
33 19 19 00-0007	EA	10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter	55,958.45	698.33
33 19 23 Magnetic Water Meters (33 19)				
33 19 23 00-0001		Flanged Electromagnetic Flow (EMF) Water Meter (33 19 23)		
33 19 23 00-0002	EA	2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	9,241.76	166.23
33 19 23 00-0003	EA	3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	13,043.20	211.99
33 19 23 00-0004	EA	4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	14,986.11	331.70
33 19 26 Ultrasonic Water Meters (33 19)				
33 19 26 00-0001		Ultrasonic Water Service Meters (Mastermeter Octive) (33 19 26)		
33 19 26 00-0002	EA	3" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	4,694.97	211.99
33 19 26 00-0003	EA	4" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	5,423.68	331.70
33 19 26 00-0004	EA	6" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	7,975.97	448.92
33 19 26 00-0005	EA	8" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	11,477.15	573.63
33 30 Sanitary Sewerage Utilities (33)				
33 31 Sanitary Sewerage Piping (33 30)				
33 31 11		Public Sanitary Sewerage Gravity Piping (33 31)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.				
33 31 11 00-0001		Cast Iron Service Saddles With U Bolt (33 31 11)		
33 31 11 00-0002	EA	2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	135.66	
33 31 11 00-0003	EA	3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	136.37	
33 31 11 00-0004	EA	3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	150.13	
33 31 11 00-0005	EA	4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	145.21	
33 31 11 00-0006	EA	4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	163.79	
33 31 11 00-0007	EA	4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	184.13	
33 31 11 00-0008	EA	4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	218.07	
33 31 11 00-0009	EA	6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	184.40	
33 31 11 00-0010	EA	6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	201.56	
33 31 11 00-0011	EA	6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	232.57	
33 31 11 00-0012	EA	2" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	190.48	
33 31 11 00-0013	EA	4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	149.18	
33 31 11 00-0014	EA	4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	162.94	
33 31 11 00-0015	EA	4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	193.41	
33 31 11 00-0016	EA	4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	229.47	
33 31 11 00-0017	EA	6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	246.77	
33 31 11 00-0018		Plastic Sewer And Drain Piping (33 31 11)		
Note: Includes detectable tracer wire.				
33 31 11 00-0019		Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)		
33 31 11 00-0020	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	11.19	4.55
33 31 11 00-0021	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.58	5.37
33 31 11 00-0022	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	18.86	6.50
33 31 11 00-0023	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	23.61	7.59
33 31 11 00-0024	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	32.36	8.83
33 31 11 00-0025	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	43.44	10.26
33 31 11 00-0026	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	59.49	10.62
33 31 11 00-0027	LF	12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	78.26	11.00
33 31 11 00-0028		Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)		
Note: D-2729 PVC pipe.				
33 31 11 00-0029	LF	3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	14.34	6.50
33 31 11 00-0030	LF	4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	16.84	7.59
33 31 11 00-0031	LF	6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	20.92	8.83
33 31 11 00-0032		Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0018)		
33 31 11 00-0033		Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbows (33 31 11 00-0032)		
33 31 11 00-0034	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	33.11	15.72
33 31 11 00-0035	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	42.53	20.33
33 31 11 00-0036	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	78.58	27.30
33 31 11 00-0037	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	126.99	31.56
33 31 11 00-0038	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	546.56	41.02
33 31 11 00-0039	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	913.47	55.20



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0040	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Elbow	1,205.58	73.52
33 31 11 00-0041		Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbows (33 31 11 00-0032)		
33 31 11 00-0042	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	35.31	15.72
33 31 11 00-0043	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	42.35	20.33
33 31 11 00-0044	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	75.28	27.30
33 31 11 00-0045	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	110.87	31.56
33 31 11 00-0046	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	505.52	41.02
33 31 11 00-0047	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	818.08	55.20
33 31 11 00-0048	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	924.98	73.52
33 31 11 00-0049	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, 1/8 Bend Elbow	1,380.21	97.92
33 31 11 00-0050		Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweeps (33 31 11 00-0032)		
33 31 11 00-0051	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	59.85	15.48
33 31 11 00-0052	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	57.92	20.33
33 31 11 00-0053	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	118.16	27.30
33 31 11 00-0054	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	199.55	31.56
33 31 11 00-0055	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	406.41	41.02
33 31 11 00-0056	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	729.29	55.20
33 31 11 00-0057	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	1,202.28	73.52
33 31 11 00-0058	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, 1/4 Bend Long Sweep	1,828.98	97.92
33 31 11 00-0059		Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbows (33 31 11 00-0032)		
33 31 11 00-0060	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	40.00	15.72
33 31 11 00-0061	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	47.11	20.33
33 31 11 00-0062	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	88.99	27.30
33 31 11 00-0063	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	136.30	31.56
33 31 11 00-0064	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	683.08	41.02
33 31 11 00-0065	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	1,112.22	55.20
33 31 11 00-0066	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	1,250.83	73.52
33 31 11 00-0067	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, 1/16 Bend Elbow	1,271.61	97.92
33 31 11 00-0068		Polyvinyl Chloride (PVC) Sewer And Drain, Reducers (33 31 11 00-0032)		
33 31 11 00-0069	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	46.01	17.95
33 31 11 00-0070	EA	3" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	92.98	21.41
33 31 11 00-0071	EA	3" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	86.39	23.62
33 31 11 00-0072	EA	4" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	139.54	25.82
33 31 11 00-0073	EA	4" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	149.32	29.29
33 31 11 00-0074	EA	6" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	481.89	36.26
33 31 11 00-0075	EA	8" x 6" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	1,037.19	48.06
33 31 11 00-0076	EA	10" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	205.53	52.48
33 31 11 00-0077	EA	10" x 6" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	283.61	57.24
33 31 11 00-0078	EA	10" x 8" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	266.12	64.29
33 31 11 00-0079	EA	12" x 6" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	1,069.57	69.49
33 31 11 00-0080	EA	12" x 8" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	1,128.33	76.53
33 31 11 00-0081	EA	12" x 10" Polyvinyl Chloride (PVC) Sewer And Drain, Reducer.....	1,192.79	85.72
33 31 11 00-0082		Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tees (33 31 11 00-0032)		
33 31 11 00-0083	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee.....	52.65	23.75
33 31 11 00-0084	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee.....	70.38	30.73
33 31 11 00-0085	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee.....	125.73	40.54
33 31 11 00-0086	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee.....	199.15	50.36
33 31 11 00-0087	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee.....	802.09	55.20
33 31 11 00-0088	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, Sanitary Tee.....	1,040.26	73.52
33 31 11 00-0089		Polyvinyl Chloride (PVC) Sewer And Drain, Wyes (33 31 11 00-0032)		
33 31 11 00-0090	EA	1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Wye.....	69.69	23.75
33 31 11 00-0091	EA	2" Polyvinyl Chloride (PVC) Sewer And Drain, Wye.....	80.28	30.73
33 31 11 00-0092	EA	3" Polyvinyl Chloride (PVC) Sewer And Drain, Wye.....	138.37	40.54
33 31 11 00-0093	EA	4" Polyvinyl Chloride (PVC) Sewer And Drain, Wye.....	219.85	50.36
33 31 11 00-0094	EA	6" Polyvinyl Chloride (PVC) Sewer And Drain, Wye.....	724.40	55.20
33 31 11 00-0095	EA	8" Polyvinyl Chloride (PVC) Sewer And Drain, Wye.....	892.70	73.52
33 31 11 00-0096	EA	10" Polyvinyl Chloride (PVC) Sewer And Drain, Wye.....	1,173.73	98.11
33 31 11 00-0097	EA	12" Polyvinyl Chloride (PVC) Sewer And Drain, Wye.....	1,863.89	130.92
33 31 11 00-0098		Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wyes (33 31 11 00-0032)		
33 31 11 00-0099	EA	2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye.....	96.44	23.75
33 31 11 00-0100	EA	2" x 2" x 1" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye.....	106.30	30.73
33 31 11 00-0101	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye.....	120.78	40.54
33 31 11 00-0102	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye.....	191.46	50.36
33 31 11 00-0103	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye.....	210.88	50.36
33 31 11 00-0104	EA	6" x 6" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Wye.....	346.86	82.98

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0105	Polyvinyl Chloride (PVC) Sewer And Drain, Double Wyes (33 31 11 00-0032)			
33 31 11 00-0106	EA 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye.....	118.57	30.73	
33 31 11 00-0107	EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye.....	154.13	40.54	
33 31 11 00-0108	EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye.....	322.97	54.73	
33 31 11 00-0109	EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Double Wye.....	587.77	66.20	
33 31 11 00-0110	EA 2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Double Wye.....	146.07	40.54	
33 31 11 00-0111	EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Double Wye.....	261.41	54.73	
33 31 11 00-0112	EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Double Wye.....	486.08	66.20	
33 31 11 00-0113	Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bends (33 31 11 00-0032)			
33 31 11 00-0114	EA 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend.....	90.94	23.75	
33 31 11 00-0115	EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend.....	113.44	30.73	
33 31 11 00-0116	EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend.....	238.04	40.54	
33 31 11 00-0117	EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Combination Wye And 1/8 Bend.....	443.38	50.36	
33 31 11 00-0118	EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend.....	185.63	30.73	
33 31 11 00-0119	EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend.....	303.42	40.54	
33 31 11 00-0120	EA 3" x 3" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend.....	212.47	40.54	
33 31 11 00-0121	EA 4" x 4" x 2" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend.....	412.73	50.36	
33 31 11 00-0122	EA 4" x 4" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Reducing Combination Wye And 1/8 Bend.....	440.76	50.36	
33 31 11 00-0123	Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bends (33 31 11 00-0032)			
33 31 11 00-0124	EA 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend.....	135.06	30.73	
33 31 11 00-0125	EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend.....	155.96	40.54	
33 31 11 00-0126	EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend.....	247.30	54.73	
33 31 11 00-0127	EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend.....	969.96	66.20	
33 31 11 00-0128	EA 6" Polyvinyl Chloride (PVC) Sewer And Drain, Double Combination Wye And 1/8 Bend.....	3,270.84	73.29	
33 31 11 00-0129	Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tees With Plug (33 31 11 00-0032)			
33 31 11 00-0130	EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug.....	726.55	125.07	
33 31 11 00-0131	EA 6" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug.....	1,807.98	161.36	
33 31 11 00-0132	EA 8" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug.....	2,290.89	227.39	
33 31 11 00-0133	EA 10" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout Tee With Plug.....	3,134.77	365.78	
33 31 11 00-0134	Polyvinyl Chloride (PVC) Sewer And Drain, Couplings (33 31 11 00-0032)			
33 31 11 00-0135	EA 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling.....	31.95	15.72	
33 31 11 00-0136	EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling.....	39.60	20.21	
33 31 11 00-0137	EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling.....	64.54	27.07	
33 31 11 00-0138	EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling.....	86.54	31.56	
33 31 11 00-0139	EA 6" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling.....	278.17	41.02	
33 31 11 00-0140	EA 8" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling.....	708.43	55.20	
33 31 11 00-0141	EA 10" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling.....	1,079.92	73.52	
33 31 11 00-0142	EA 12" Polyvinyl Chloride (PVC) Sewer And Drain, Coupling.....	1,798.66	97.92	
33 31 11 00-0143	Polyvinyl Chloride (PVC) Sewer And Drain, Adapters (33 31 11 00-0032)			
33 31 11 00-0144	EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Male Threaded Iron Adapter Fitting.....	152.67	87.54	
33 31 11 00-0145	EA 2" x 3" x 3" Polyvinyl Chloride (PVC) Sewer And Drain, Downspout Adapter Fitting.....	107.06	66.60	
33 31 11 00-0146	EA 3" x 3" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Downspout Adapter Fitting.....	110.18	66.60	
33 31 11 00-0147	EA 3" x 4" x 4" Polyvinyl Chloride (PVC) Sewer And Drain, Downspout Adapter Fitting.....	118.47	66.60	
33 31 11 00-0148	EA 4" Cast Iron Pipe x Polyvinyl Chloride (PVC) Sewer And Drain, Hub Pipe Adapter Fitting.....	154.95	87.54	
33 31 11 00-0149	EA 4" Clay Pipe x Polyvinyl Chloride (PVC) Sewer And Drain, Spigot Pipe Adapter Fitting.....	148.31	87.54	
33 31 11 00-0150	EA 4" Fiberglass Pipe x Polyvinyl Chloride (PVC) Sewer And Drain, Spigot Pipe Adapter Fitting.....	137.42	87.54	
33 31 11 00-0151	EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Drain Grate Fitting.....	75.59	45.01	
33 31 11 00-0152	Polyvinyl Chloride (PVC) Sewer And Drain, Caps (33 31 11 00-0032)			
33 31 11 00-0153	EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Cap.....	44.37	16.91	
33 31 11 00-0154	EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Cap.....	74.64	21.04	
33 31 11 00-0155	EA 6" Polyvinyl Chloride (PVC) Sewer And Drain, Cap.....	143.83	27.18	
33 31 11 00-0156	Polyvinyl Chloride (PVC) Sewer And Drain, Cleanouts With Plug (33 31 11 00-0032)			
33 31 11 00-0157	EA 1-1/2" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	27.37	15.72	
33 31 11 00-0158	EA 2" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	35.65	20.33	
33 31 11 00-0159	EA 3" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	53.34	27.30	
33 31 11 00-0160	EA 4" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	70.98	31.56	
33 31 11 00-0161	EA 6" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	124.10	41.02	
33 31 11 00-0162	EA 8" Polyvinyl Chloride (PVC) Sewer And Drain, Cleanout With Plug.....	485.38	55.20	



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0163			Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018) Note: ASTM 3034.		
33 31 11 00-0164	LF		4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe For SDR 26, Add	18.17 0.59	7.59
33 31 11 00-0165	LF		6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe For SDR 26, Add	23.35 1.12	8.83
33 31 11 00-0166	LF		8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe For SDR 26, Add	30.21 1.90	10.26
33 31 11 00-0167	LF		10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe For SDR 26, Add	35.78 2.85	10.62
33 31 11 00-0168	LF		12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe For SDR 26, Add	42.47 4.01	11.00
33 31 11 00-0169	LF		15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe For SDR 26, Add	53.48 6.02	11.39
33 31 11 00-0170	LF		18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	66.07	11.80
33 31 11 00-0171	LF		21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	84.18	12.82
33 31 11 00-0172	LF		24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	100.99	13.83
33 31 11 00-0173	LF		27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	124.94	16.22
33 31 11 00-0174			Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018) Note: ASTM 3034.		
33 31 11 00-0175	LF		4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe..... For SDR 26, Add	18.29 0.61	7.59
33 31 11 00-0176	LF		6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe..... For SDR 26, Add	23.88 1.22	8.83
33 31 11 00-0177	LF		8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe..... For SDR 26, Add	31.41 2.13	10.26
33 31 11 00-0178			Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0018) Note: ASTM 3034.		
33 31 11 00-0179			Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bends (33 31 11 00-0178)		
33 31 11 00-0180	EA		4" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend For SDR 26, Add	91.41 4.19	28.64
33 31 11 00-0181	EA		6" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend For SDR 26, Add	135.85 7.71	33.29
33 31 11 00-0182	EA		8" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend For SDR 26, Add	285.51 21.34	37.73
33 31 11 00-0183	EA		10" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend For SDR 26, Add	821.53 71.76	44.39
33 31 11 00-0184	EA		12" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/4 Bend For SDR 26, Add	1,061.62 92.86	56.60
33 31 11 00-0185			Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bends (33 31 11 00-0178)		
33 31 11 00-0186	EA		4" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend For SDR 26, Add	82.43 3.33	28.64
33 31 11 00-0187	EA		6" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend For SDR 26, Add	125.95 6.76	33.29
33 31 11 00-0188	EA		8" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend For SDR 26, Add	260.47 18.93	37.73
33 31 11 00-0189	EA		10" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend For SDR 26, Add	585.82 49.13	44.39
33 31 11 00-0190	EA		12" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend For SDR 26, Add	837.50 71.34	56.60
33 31 11 00-0191	EA		15" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend For SDR 26, Add	1,797.29 159.76	79.90
33 31 11 00-0192	EA		18" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	2,852.17	113.20
33 31 11 00-0193	EA		21" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	4,760.59	149.82
33 31 11 00-0194	EA		24" Gasketed SDR 35 Polyvinyl Chloride (PVC), 1/8 Bend	6,491.34	199.76
33 31 11 00-0195			Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tees (33 31 11 00-0178)		
33 31 11 00-0196	EA		4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	138.39 6.41	42.94
33 31 11 00-0197	EA		6" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	223.95 13.88	47.61
33 31 11 00-0198	EA		6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	251.85 16.19	49.94
33 31 11 00-0199	EA		8" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	278.18 18.34	52.27
33 31 11 00-0200	EA		8" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	318.85 21.87	54.60
33 31 11 00-0201	EA		8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	613.33 49.77	56.93
33 31 11 00-0202	EA		10" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	786.36 66.17	58.26
33 31 11 00-0203	EA		10" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	891.53 75.83	61.04
33 31 11 00-0204	EA		10" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	1,317.93 116.39	63.37

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0205 EA 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	1,718.66 154.34	66.59
33 31 11 00-0206 EA 12" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	967.60 81.54	70.91
33 31 11 00-0207 EA 12" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	1,027.33 86.90	73.25
33 31 11 00-0208 EA 12" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	1,467.50 128.79	75.58
33 31 11 00-0209 EA 12" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	2,118.44 190.77	78.80
33 31 11 00-0210 EA 12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Sanitary Tee For SDR 26, Add	2,387.57 215.62	84.89
33 31 11 00-0211 Gasketed SDR 35 Polyvinyl Chloride (PVC), Wyes (33 31 11 00-0178)		
33 31 11 00-0212 EA 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye For SDR 26, Add	131.42 5.74	42.94
33 31 11 00-0213 EA 6" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye For SDR 26, Add	200.73 11.65	47.61
33 31 11 00-0214 EA 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye For SDR 26, Add	220.66 13.19	49.94
33 31 11 00-0215 EA 8" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0216 EA 8" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0217 EA 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0218 EA 10" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0219 EA 10" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0220 EA 10" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0221 EA 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0222 EA 12" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0223 EA 12" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0224 EA 12" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0225 EA 12" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0226 EA 12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0227 EA 15" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0228 EA 15" x 12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye 33 31 11 00-0229 EA 15" Gasketed SDR 35 Polyvinyl Chloride (PVC), Wye	268.22 306.97 471.43 718.97 733.34 1,104.95 1,222.87 911.39 940.00 1,347.81 1,624.78 1,696.32 2,090.67 2,319.77 2,901.20	52.27 54.60 56.93 58.71 61.04 63.37 66.59 70.91 73.25 75.58 78.80 84.89 102.10 108.20 119.86
33 31 11 00-0230 Gasketed SDR 35 Polyvinyl Chloride (PVC), Couplings (33 31 11 00-0178)		
33 31 11 00-0231 EA 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling For SDR 26, Add	90.62 4.12	28.64
33 31 11 00-0232 EA 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling For SDR 26, Add	141.14 8.22	33.29
33 31 11 00-0233 EA 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling For SDR 26, Add	208.74 13.97	37.95
33 31 11 00-0234 EA 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling For SDR 26, Add	396.87 30.99	44.39
33 31 11 00-0235 EA 12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling For SDR 26, Add	563.45 45.04	56.60
33 31 11 00-0236 EA 15" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling For SDR 26, Add	1,103.76 93.18	79.90
33 31 11 00-0237 EA 18" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling 33 31 11 00-0238 EA 21" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling 33 31 11 00-0239 EA 24" Gasketed SDR 35 Polyvinyl Chloride (PVC), Coupling	2,078.04 3,469.66 5,023.70	113.20 149.82 199.76
33 31 11 00-0240 Gasketed SDR 35 Polyvinyl Chloride (PVC), Increasers (33 31 11 00-0178)		
33 31 11 00-0241 EA 6" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser For SDR 26, Add	174.71 11.82	30.96
33 31 11 00-0242 EA 8" x 4" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser For SDR 26, Add	250.95 18.76	33.29
33 31 11 00-0243 EA 8" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser For SDR 26, Add	264.62 19.70	35.62
33 31 11 00-0244 EA 10" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser For SDR 26, Add	598.31 51.23	38.84
33 31 11 00-0245 EA 10" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser For SDR 26, Add	687.82 59.45	41.17
33 31 11 00-0246 EA 12" x 6" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser For SDR 26, Add	768.60 66.59	44.95
33 31 11 00-0247 EA 12" x 8" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser For SDR 26, Add	882.38 77.14	47.28
33 31 11 00-0248 EA 12" x 10" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser For SDR 26, Add	1,011.94 89.07	50.50
33 31 11 00-0249 EA 15" x 12" Gasketed SDR 35 Polyvinyl Chloride (PVC), Increaser For SDR 26, Add	1,523.97 135.38	68.25
33 31 11 00-0250 SDR 35 Polyvinyl Chloride (PVC), Saddle Wyes With Stainless Steel Clamps (33 31 11 00-0178)		
33 31 11 00-0251 EA 6" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps For SDR 26, Add	144.16 8.51	



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 31 11 00-0252	EA 8" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	190.64	11.91		
33 31 11 00-0253	EA 8" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	194.94	12.32		
33 31 11 00-0254	EA 10" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	323.68	23.62		
33 31 11 00-0255	EA 10" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	341.68	25.34		
33 31 11 00-0256	EA 10" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	651.42	55.08		
33 31 11 00-0257	EA 12" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	368.50	26.32		
33 31 11 00-0258	EA 12" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	402.25	29.56		
33 31 11 00-0259	EA 12" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	902.31	77.57		
33 31 11 00-0260	EA 12" x 10" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	1,064.82	93.17		
33 31 11 00-0261	EA 15" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	422.09	27.74		
33 31 11 00-0262	EA 15" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Wye With Stainless Steel Clamps..... For SDR 26, Add	451.54	30.56		
33 31 11 00-0263 SDR 35 Polyvinyl Chloride (PVC), Saddle Tees With Stainless Steel Clamps (33 31 11 00-0178)					
33 31 11 00-0264	EA 6" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	154.24	9.48		
33 31 11 00-0265	EA 8" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	190.64	11.91		
33 31 11 00-0266	EA 8" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	208.66	13.64		
33 31 11 00-0267	EA 10" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	296.97	21.05		
33 31 11 00-0268	EA 10" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	339.53	25.14		
33 31 11 00-0269	EA 10" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	516.98	42.17		
33 31 11 00-0270	EA 12" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	366.36	26.11		
33 31 11 00-0271	EA 12" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	400.21	29.36		
33 31 11 00-0272	EA 12" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	601.30	48.67		
33 31 11 00-0273	EA 12" x 10" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	732.54	61.27		
33 31 11 00-0274	EA 15" x 4" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	420.76	27.61		
33 31 11 00-0275	EA 15" x 6" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	441.56	29.61		
33 31 11 00-0276	EA 15" x 8" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	738.89	58.15		
33 31 11 00-0277	EA 15" x 10" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	818.08	65.75		
33 31 11 00-0278	EA 15" x 12" SDR 35 Polyvinyl Chloride (PVC), Saddle Tee With Stainless Steel Clamps..... For SDR 26, Add	1,158.47	98.43		
33 31 11 00-0279 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe and Fittings (33 31 11 00-0018) Note: ASTM F949.					
33 31 11 00-0280 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0279)					
33 31 11 00-0281	LF 4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	17.35		7.59	
33 31 11 00-0282	LF 6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	23.17		8.83	
33 31 11 00-0283	LF 8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	28.81		10.26	
33 31 11 00-0284	LF 10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	33.17		10.62	
33 31 11 00-0285	LF 12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	34.96		11.00	
33 31 11 00-0286	LF 15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	40.16		11.39	
33 31 11 00-0287	LF 18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	49.54		11.80	
33 31 11 00-0288	LF 21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	57.21		12.82	
33 31 11 00-0289	LF 24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	68.97		13.83	
33 31 11 00-0290	LF 30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	98.26		18.61	
33 31 11 00-0291 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bends (33 31 11 00-0279)					
33 31 11 00-0292	EA 4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	57.55			
33 31 11 00-0293	EA 6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	76.60			
33 31 11 00-0294	EA 8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	104.59			
33 31 11 00-0295	EA 10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	172.12			
33 31 11 00-0296	EA 12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend	186.95			

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0297	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend.....	304.62		
33 31 11 00-0298	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend.....	476.87		
33 31 11 00-0299	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend.....	666.32		
33 31 11 00-0300	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend.....	855.71		
33 31 11 00-0301	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/4 Bend.....	1,122.34		
33 31 11 00-0302 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bends (33 31 11 00-0279)					
33 31 11 00-0303	EA	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	54.29		
33 31 11 00-0304	EA	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	71.76		
33 31 11 00-0305	EA	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	97.56		
33 31 11 00-0306	EA	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	158.90		
33 31 11 00-0307	EA	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	173.11		
33 31 11 00-0308	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	280.16		
33 31 11 00-0309	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	437.00		
33 31 11 00-0310	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	607.15		
33 31 11 00-0311	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	777.33		
33 31 11 00-0312	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/8 Bend.....	1,017.74		
33 31 11 00-0313 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bends (33 31 11 00-0279)					
33 31 11 00-0314	EA	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	49.39		
33 31 11 00-0315	EA	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	61.56		
33 31 11 00-0316	EA	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	92.35		
33 31 11 00-0317	EA	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	116.52		
33 31 11 00-0318	EA	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	158.42		
33 31 11 00-0319	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	254.18		
33 31 11 00-0320	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	368.67		
33 31 11 00-0321	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	546.60		
33 31 11 00-0322	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	724.54		
33 31 11 00-0323	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), 1/16 Bend.....	1,015.24		
33 31 11 00-0324 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wyes (33 31 11 00-0279)					
33 31 11 00-0325	EA	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	89.21		
33 31 11 00-0326	EA	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	114.08		
33 31 11 00-0327	EA	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	194.51		
33 31 11 00-0328	EA	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	305.74		
33 31 11 00-0329	EA	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	497.38		
33 31 11 00-0330	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	706.81		
33 31 11 00-0331	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	1,021.98		
33 31 11 00-0332	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	1,171.79		
33 31 11 00-0333	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	1,321.58		
33 31 11 00-0334	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Wye.....	2,363.21		
33 31 11 00-0335 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tees (33 31 11 00-0279)					
33 31 11 00-0336	EA	4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	82.53		
33 31 11 00-0337	EA	6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	104.91		
33 31 11 00-0338	EA	8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	175.76		
33 31 11 00-0339	EA	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	273.72		
33 31 11 00-0340	EA	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	441.12		
33 31 11 00-0341	EA	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	625.60		
33 31 11 00-0342	EA	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	903.08		
33 31 11 00-0343	EA	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	1,033.89		
33 31 11 00-0344	EA	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	1,164.68		
33 31 11 00-0345	EA	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC), Tee.....	2,068.43		
33 31 11 00-0346 Couplings And Plug Fittings (33 31 11)					
33 31 11 00-0347 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 31 11 00-0346)					
Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.					
33 31 11 00-0348	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	22.72	8.28	
33 31 11 00-0349	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	24.88	9.66	
33 31 11 00-0350	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	28.68	11.04	
33 31 11 00-0351	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	32.40	11.73	
33 31 11 00-0352	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	39.33	12.42	
33 31 11 00-0353	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	46.30	13.80	
33 31 11 00-0354	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	58.34	15.18	
33 31 11 00-0355	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	71.54	15.87	
33 31 11 00-0356	EA	12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212).....	116.32	16.55	
33 31 11 00-0357	EA	15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515).....	157.39	17.94	
33 31 11 00-0358	EA	18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818).....	300.53	18.63	
33 31 11 00-0359	EA	21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121).....	348.78	19.66	
33 31 11 00-0360	EA	24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424).....	386.18	20.70	



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 31 11 00-0361	EA	27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727)	462.23	22.08

33 31 11 00-0362 Manhole Inside Bowl Drop (33 31 11)

33 31 11 00-0363	EA	Inside Pipe Drop, 4" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4DB)	362.89	
33 31 11 00-0364	EA	Inside Pipe Drop, 4" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96)	380.17	
33 31 11 00-0365	EA	Inside Pipe Drop, 6" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6DB)	389.92	
33 31 11 00-0366	EA	Inside Pipe Drop, 6" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96)	403.08	
33 31 11 00-0367	EA	Inside Pipe Drop, 8" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DB)	418.96	
33 31 11 00-0368	EA	Inside Pipe Drop, 8" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DBR84)	448.84	
33 31 11 00-0369	EA	Inside Pipe Drop, 10" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10DB)	467.55	
33 31 11 00-0370	EA	Inside Pipe Drop, 10" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96)	482.49	
33 31 11 00-0371	EA	Inside Pipe Drop, 12" Outlet for 4' to 6' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R60)	828.24	
33 31 11 00-0372	EA	Inside Pipe Drop, 12" Outlet for 7' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R96)	850.65	

33 32 Sanitary Sewerage Equipment (33 32)

33 32 16 Packaged Wastewater Grinder Pump Assemblies (33 32)

33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)

33 32 16 00-0002	EA	2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge	2,298.15	406.57
Note: Zoeller 840 series.				
33 32 16 00-0003	EA	2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge	2,267.45	406.57
Note: Zoeller 840 series.				
33 32 16 00-0004	EA	Simplex Control Panel With Auto Reversing Switch	1,068.08	135.48
Note: For Zoeller 840 series grinder pump.				
33 32 16 00-0005	EA	Duplex Control Panel With Auto Reversing Switch	1,638.57	135.48
Note: For Zoeller 840 series grinder pump.				
33 32 16 00-0006	EA	Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74)	14,032.75	

33 32 16 00-0007 Submersible Grinder Pumps (33 32 16)

Note: Includes 50' of cord with pumps unless otherwise noted.

33 32 16 00-0008	EA	2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	4,043.02	816.47
33 32 16 00-0009	EA	3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	5,966.99	952.55
33 32 16 00-0010	EA	5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	7,323.65	1,224.70

33 32 16 00-0011 In-Line Sewage Grinder, Single Shaft Design (33 32 16)

33 32 16 00-0012	EA	In-Line Sewage Grinder, 4" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 4-8000, 3 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	15,166.62	1,588.77
For NEMA 4X Controller, Add			2,700.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
For NEMA 7 Controller, Add			9,600.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
33 32 16 00-0013	EA	In-Line Sewage Grinder, 6" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 6-8000, 3 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	15,166.62	1,588.77
For NEMA 4X Controller, Add			2,700.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
For NEMA 7 Controller, Add			9,600.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
33 32 16 00-0014	EA	In-Line Sewage Grinder, 8" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 8000, 5 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	15,166.62	1,588.77
For NEMA 4X Controller, Add			2,700.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
For NEMA 7 Controller, Add			9,600.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
33 32 16 00-0015	EA	In-Line Sewage Grinder, 10" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 1000, 7-1/2 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	23,662.54	1,588.77
For NEMA 4X Controller, Add			2,700.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
For NEMA 7 Controller, Add			9,600.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
33 32 16 00-0016	EA	In-Line Sewage Grinder, 10" Pipe Flanges, Single Shaft Design, Franklin Miller Super Shredder Series 1600, 10 HP, 230/460 Volt, 3 Phase, 60 Hertz, Totally Enclosed Explosion Proof Motor	31,744.02	1,588.77
For NEMA 4X Controller, Add			2,700.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
For NEMA 7 Controller, Add			9,600.00	
Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.				
33 32 16 00-0017	EA	Lower Housing Replacement, Including Casing, Liner, Cutter And Bearings. For Series 8000	80,900.48	
33 32 16 00-0018	EA	Lower Housing Replacement, Including Casing, Liner, Cutter And Bearings. For Series 1000	90,684.09	
33 32 16 00-0019	EA	Lower Housing Replacement, Including Casing, Liner, Cutter And Bearings. For Series 1600	321,617.82	

33 32 16 00-0020 In-Line Sewage Grinder, Double Shaft Design (33 32 16)

33 Utilities**33 30 Sanitary Sewerage Utilities****33 32 Sanitary Sewerage Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 32 16 00-0021 EA 4" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 15,405.81 1,588.77 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge. For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0022 EA 6" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 16,647.93 1,588.77 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge. For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0023 EA 8" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 17,126.31 1,588.77 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge. For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0024 EA 10" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 19,508.72 1,588.77 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge. For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0025 EA 12" Pipe Flanges, In-Line Sewage Grinder, 3 HP, Muffin Monster Series 30000 21,357.10 1,588.77 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 29:1 reducer, and 12" high cutting cartridge. For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0026 EA 12" Pipe Flanges, In-Line Sewage Grinder, 10 HP, Muffin Monster Series 40000 41,932.02 1,588.77 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 43:1 reducer, and 12" high cutting cartridge. For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0027 EA 16" Pipe Flanges, In-Line Sewage Grinder, 10 HP, Muffin Monster Series 40000 48,098.81 1,588.77 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 43:1 reducer, and 12" high cutting cartridge. For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0028 EA 18" Pipe Flanges, In-Line Sewage Grinder, 10 HP, Muffin Monster Series 40000 50,495.43 1,588.77 Note: Double shaft design, 0-1200 GPM capacity, 230/460 volt, 3 phase, 60 Hz totally enclosed explosion-proof motor with 43:1 reducer, and 12" high cutting cartridge. For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.		
33 32 16 00-0029 EA Up To 8" Cutter Cartridge Replacement For Series 30000 100,682.81		
33 32 16 00-0030 EA 10" To 12" Cutter Cartridge Replacement For Series 30000 161,755.90		
33 32 16 00-0031 EA 12" Cutter Cartridge Replacement For Series 40000 340,983.07		
33 32 16 00-0032 EA 16" Cutter Cartridge Replacement For Series 40000 403,045.24		
33 32 16 00-0033 EA 18" Cutter Cartridge Replacement For Series 40000 427,164.64		
33 32 16 00-0034 Open Channel Sewage, Double Shaft Design (33 32 16)		
33 32 16 00-0035 EA Open Channel Sewage Grinder, Double Shaft Design, 40" High Cutter Cartridge, Muffin Monster Series 30000 27,913.46 1,588.77 For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect 3,701.00		
33 32 16 00-0036 EA Open Channel Sewage Grinder, Double Shaft Design, 50" High Cutter Cartridge, Muffin Monster Series 30000 30,281.66 1,588.77 For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect 3,701.00		
33 32 16 00-0037 EA Open Channel Sewage Grinder, Double Shaft Design, 60" High Cutter Cartridge, Muffin Monster Series 30000 32,649.86 1,588.77 For NEMA 4X Controller, Add 1,846.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For NEMA 7 Controller, Add 10,466.00 Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature. For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect 3,701.00		



Utilities			33	CS
Sanitary Sewerage Utilities			33 30	
Sanitary Sewerage Equipment			33 32	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 32 16 00-0038	EA	Open Channel Sewage Grinder, Double Shaft Design, 18" High Cutter Cartridge, Muffin Monster Series 40000 <i>For NEMA 4X Controller, Add</i> <i>Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.</i> <i>For NEMA 7 Controller, Add</i> <i>Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.</i> <i>For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect, Add</i> <i>Note: With Quick Disconnect, Add</i>	39,092.55 1,846.00 10,466.00 5,182.00	1,588.77
33 32 16 00-0039	EA	Open Channel Sewage Grinder, Double Shaft Design, 24" High Cutter Cartridge, Muffin Monster Series 40000 <i>For NEMA 4X Controller, Add</i> <i>Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.</i> <i>For NEMA 7 Controller, Add</i> <i>Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.</i> <i>For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect, Add</i> <i>Note: With Quick Disconnect, Add</i>	42,246.99 1,846.00 10,466.00 5,182.00	1,588.77
33 32 16 00-0040	EA	Open Channel Sewage Grinder, Double Shaft Design, 32" High Cutter Cartridge, Muffin Monster Series 40000 <i>For NEMA 4X Controller, Add</i> <i>Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.</i> <i>For NEMA 7 Controller, Add</i> <i>Note: Includes push to test lamp, ET meter door/window, CB disconnect and motor over temperature.</i> <i>For Power Pack, 5HP, 230/460V, 3 Phase, 60 Hertz Hydraulic Drive With Quick Disconnect, Add</i> <i>Note: With Quick Disconnect, Add</i>	45,266.44 1,846.00 10,466.00 5,182.00	1,588.77
33 32 16 00-0041	EA	For Cutter Cartridge Replacement For Series 30000, 40"	183,980.54	
33 32 16 00-0042	EA	For Cutter Cartridge Replacement For Series 30000, 50"	205,728.52	
33 32 16 00-0043	EA	For Cutter Cartridge Replacement For Series 30000, 60"	229,859.84	
33 32 16 00-0044	EA	For Cutter Cartridge Replacement For Series 40000, 18"	254,586.99	
33 32 16 00-0045	EA	For Cutter Cartridge Replacement For Series 40000, 24"	297,189.20	
33 32 16 00-0046	EA	For Cutter Cartridge Replacement For Series 40000, 32"	330,555.96	
33 32 16 00-0047		Monoflo TR Muncher (33 32 16) <i>Note: TR Muncher twin shaft sludge grinder, 3 HP TEXP motor, CI body, alloy steel cutter and spacers, 11 tooth cutters, 8mm thick, includes control panel monoflo priced separately.</i>		
33 32 16 00-0048	EA	CT203P Monoflo TR Muncher 4" Ports with 12" Throat..... <i>For 5 HP TEXP Motor, Add</i> <i>For 5mm Thick Cutters, Add</i>	41,206.90 1,150.00 725.00	529.68
33 32 16 00-0049	EA	CT203Q Monoflo TR Muncher 6" Ports with 12" Throat <i>For 5 HP TEXP Motor, Add</i> <i>For 5mm Thick Cutters, Add</i>	41,206.90 1,150.00 725.00	529.68
33 32 16 00-0050	EA	CT203R Monoflo TR Muncher 8" Ports with 12" Throat <i>For 5 HP TEXP Motor, Add</i> <i>For 5mm Thick Cutters, Add</i>	41,862.83 1,150.00 725.00	529.68
33 32 16 00-0051	EA	CT203S Monoflo TR Muncher 10" Ports with 12" Throat..... <i>For 5 HP TEXP Motor, Add</i> <i>For 5mm Thick Cutters, Add</i>	48,028.52 1,150.00 950.00	529.68
33 32 16 00-0052	EA	CT203T Monoflo TR Muncher 12" Ports with 12" Throat..... <i>For 5 HP TEXP Motor, Add</i> <i>For 5mm Thick Cutters, Add</i>	51,308.15 1,150.00 950.00	529.68
33 32 16 00-0053	EA	Monoflo TR Muncher Control Panel (MF-511).....	9,185.42	132.42
33 32 16 00-0054	EA	Monoflo TR Muncher 12" Cutter Stack Rotating Assembly, spare part, material only <i>For 5mm Thick Cutters, Add</i>	20,963.36 725.00	
33 32 16 00-0055	EA	Monoflo TR Muncher 20" Cutter Stack Rotating Assembly, spare part, material only <i>For 5mm Thick Cutters, Add</i>	22,039.08 950.00	
33 34		Onsite Wastewater Disposal (33 30) <i>Note: Excludes distribution field piping, trenching or excavation.</i>		
33 34 13		Septic Tanks (33 34)		
33 34 13 13		Concrete Septic Tanks (33 34 13)		
33 34 13 13-0001		Precast Concrete Septic Tank (33 34 13 13) <i>Note: Includes external coating.</i>		
33 34 13 13-0002	EA	1,000 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	4,446.12 -860.86	816.47
33 34 13 13-0003	EA	1,250 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	5,345.66 -1,059.79	901.25
33 34 13 13-0004	EA	1,500 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	6,210.42 -1,250.00	985.89
33 34 13 13-0005	EA	2,000 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	7,977.35 -1,666.36	1,071.62
33 34 13 13-0006	EA	2,500 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	9,499.48 -1,922.21	1,479.85
33 34 13 13-0007	EA	4,000 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	25,315.75 -5,702.98	2,041.17
33 34 13 13-0008	EA	5,000 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	46,053.22 -10,577.04	3,061.77
33 34 13 13-0009	EA	7,500 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	51,612.79 -11,599.11	4,286.47
33 34 13 13-0010	EA	10,000 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	63,290.73 -14,257.78	5,128.52
33 34 13 13-0011	EA	12,500 Gallon Precast Septic Tank <i>For Non-Traffic Rated, Deduct</i>	74,781.18 -16,739.17	6,353.23

33 Utilities**33 30 Sanitary Sewerage Utilities****33 34 Onsite Wastewater Disposal**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**33 34 13 23 Fiberglass Septic Tank** (33 34 13)**33 34 13 23-0001 Fiberglass Septic Tank** (33 34 13 23)

33 34 13 23-0002	EA	1,000 Gallon Fiberglass Septic Tank	4,952.14	612.36
33 34 13 23-0003	EA	1,250 Gallon Fiberglass Septic Tank	5,830.57	816.47
33 34 13 23-0004	EA	1,500 Gallon Fiberglass Septic Tank	6,713.51	740.00
33 34 13 23-0005	EA	2,000 Gallon Fiberglass Septic Tank	11,229.04	801.09
33 34 13 23-0006	EA	2,500 Gallon Fiberglass Septic Tank	14,096.81	1,110.40
33 34 13 23-0007	EA	4,000 Gallon Fiberglass Septic Tank	22,355.74	1,530.88
33 34 13 23-0008	EA	5,000 Gallon Fiberglass Septic Tank	33,180.05	2,296.32
33 34 13 23-0009	EA	7,500 Gallon Fiberglass Septic Tank	45,552.79	3,214.85
33 34 13 23-0010	EA	10,000 Gallon Fiberglass Septic Tank	55,900.32	3,842.45

33 34 13 33 Polyethylene Septic Tank (33 34 13)**33 34 13 33-0001 High-Density Polyethylene (HDPE) Septic Tank** (33 34 13 33)

33 34 13 33-0002	EA	300 Gallon One Compartment One Manhole High-Density Polyethylene (HDPE) Septic Tank	1,409.01	249.40
33 34 13 33-0003	EA	500 Gallon One Compartment One Manhole High-Density Polyethylene (HDPE) Septic Tank	2,169.47	280.57
33 34 13 33-0004	EA	900 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,016.43	342.93
33 34 13 33-0005	EA	1,000 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,097.57	374.10
33 34 13 33-0006	EA	1,250 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,589.52	405.27
33 34 13 33-0007	EA	1,500 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	4,307.01	436.46
33 34 13 33-0008	EA	750 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,037.31	311.76
33 34 13 33-0009	EA	1,000 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,312.37	374.10
33 34 13 33-0010	EA	1,250 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	3,895.61	405.27
33 34 13 33-0011	EA	1,500 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank	4,575.51	436.46

33 34 51 Drainage Field System (33 34)**33 34 51 00-0001 Leaching Pit - Precast Concrete** (33 34 51)

Note: Includes external coating.

33 34 51 00-0002	EA	3' Diameter, 3' High, Precast Concrete Leaching Pit	1,039.12	119.75
33 34 51 00-0003	EA	4' Diameter, 3' High, Precast Concrete Leaching Pit	1,460.23	170.10
33 34 51 00-0004	EA	6' Diameter, 3' High, Precast Concrete Leaching Pit	1,945.10	204.12
33 34 51 00-0005	EA	8' Diameter, 4' High, Precast Concrete Leaching Pit	3,167.13	340.19
33 34 51 00-0006	EA	10' Diameter, 4' High, Precast Concrete Leaching Pit	4,620.75	476.27

33 34 53 Distribution Chambers (33 34)**33 34 53 13 Drainage Field Concrete Distribution Chambers** (33 34 53)**33 34 53 13-0001 Concrete Distribution Boxes** (33 34 53 13)

Note: Includes internal and external coating.

33 34 53 13-0002	EA	3 Outlet Concrete Distribution Box	392.29	87.41
33 34 53 13-0003	EA	5 Outlet Concrete Distribution Box	456.80	104.89
33 34 53 13-0004	EA	8 Outlet Concrete Distribution Box	795.16	122.37
33 34 53 13-0005	EA	12 Outlet Concrete Distribution Box	1,568.73	209.78

33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)

33 34 53 13-0007	EA	Standard Leaching Field Chamber 13' x 3'-7" x 1'-4"	1,207.93	103.40
33 34 53 13-0008	EA	Heavy-Duty Leaching Field Chamber 13' x 3'-9" x 1'-6"	1,477.78	141.00

33 34 53 33 Drainage Field Polyethylene Distribution Chambers (33 34 53)**33 34 53 33-0001 High-Density Polyethylene (HDPE) Leaching Field Chambers** (33 34 53 33)

33 34 53 33-0002	LF	16" Wide x 11" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	21.68	6.46
33 34 53 33-0003	LF	22" Wide x 12" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	27.71	7.01
33 34 53 33-0004	LF	34" Wide x 12" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	37.11	7.63
33 34 53 33-0005	LF	34" Wide x 16" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	53.39	8.40

33 34 56 Drainage Field Dosing Chambers (33 34)**33 34 56 00-0001 Dosing Siphon** (33 34 56)

33 34 56 00-0002	EA	Dosing Siphon With Electrical Connection And Solenoid Valve	6,324.96	
33 34 56 00-0003	EA	Solar Power Control For Dosing Siphon	4,342.61	
33 34 56 00-0004	EA	Electrical Power Control For Dosing Siphon	4,172.98	

33 40 Stormwater Utilities (33)**33 41 Subdrainage** (33 40)**33 41 16 Subdrainage Piping** (33 41)**33 41 16 13 Subdrainage Piping** (33 41 16)

See CSI section 33 42 11 00-0239 for polyethylene drain pipe.



Utilities		33	CS
Stormwater Utilities		33 40	
Subdrainage		33 41	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0001	Corrugated High-Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)		
33 41 16 13-0002	Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 41 16 13-0001) Note: Excludes couplings and gaskets.		
33 41 16 13-0003	Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0004	LF 4" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	6.42 1.13 -0.59	5.38
33 41 16 13-0005	LF 6" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	8.10 1.27 -0.69	5.77
33 41 16 13-0006	LF 8" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	10.17 1.42 -0.81	6.05
33 41 16 13-0007	LF 10" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	13.84 1.63 -1.00	6.24
33 41 16 13-0008	LF 12" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	16.30 1.84 -1.16	6.82
33 41 16 13-0009	LF 15" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	21.50 2.23 -1.46	7.69
33 41 16 13-0010	LF 18" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	34.47 3.65 -2.37	12.85
33 41 16 13-0011	LF 24" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	47.87 4.51 -3.10	14.11
33 41 16 13-0012	Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0013	LF 4" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	6.27 1.12 -0.58	5.38
33 41 16 13-0014	LF 6" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	8.03 1.27 -0.69	5.77
33 41 16 13-0015	LF 8" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	13.00 1.56 -0.95	6.05
33 41 16 13-0016	LF 10" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	15.33 1.70 -1.08	6.24
33 41 16 13-0017	LF 12" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	17.93 1.92 -1.24	6.82
33 41 16 13-0018	LF 15" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	21.32 2.22 -1.45	7.69
33 41 16 13-0019	LF 18" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	33.39 3.60 -2.31	12.85
33 41 16 13-0020	LF 24" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	46.16 4.42 -3.01	14.11
33 41 16 13-0021	Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings (33 41 16 13-0001) Note: Excludes couplings and gaskets.		
33 41 16 13-0022	Tees, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0023	EA 4" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	42.88	26.64
33 41 16 13-0024	EA 6" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	50.37	31.09
33 41 16 13-0025	EA 8" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	68.64	37.76
33 41 16 13-0026	EA 10" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	86.23	46.63
33 41 16 13-0027	EA 12" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	113.86	55.52
33 41 16 13-0028	EA 15" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	197.74	72.54
33 41 16 13-0029	EA 18" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	247.76	97.70
33 41 16 13-0030	EA 24" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	392.61	111.03
33 41 16 13-0031	Wyes, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0032	EA 4" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	43.32	26.64
33 41 16 13-0033	EA 6" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	51.79	31.09
33 41 16 13-0034	EA 8" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	83.54	37.76

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 41 16 13-0035	45 Degree Bends, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0036	EA 4" 45 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE).....	28.73		17.77	
33 41 16 13-0037	90 Degree Bends, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0038	EA 4" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE).....	29.18		17.77	
33 41 16 13-0039	EA 6" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE).....	35.43		20.73	
33 41 16 13-0040	EA 8" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE).....	46.82		25.17	
33 41 16 13-0041	EA 10" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE).....	59.56		31.09	
33 41 16 13-0042	Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 (33 41 16 13)				
Note: Includes fittings, couplings, elbows, etc.					
33 41 16 13-0043	LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	7.34		4.61	
	For <100, Add	1.06			
	For >1,000, Deduct	-0.60			
33 41 16 13-0044	LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	8.00		4.97	
	For <100, Add	1.15			
	For >1,000, Deduct	-0.65			
33 41 16 13-0045	LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	11.19		5.97	
	For <100, Add	1.46			
	For >1,000, Deduct	-0.86			
33 41 16 13-0046	LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	17.20		7.46	
	For <100, Add	1.98			
	For >1,000, Deduct	-1.23			
33 41 16 13-0047	LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	27.24		7.76	
	For <100, Add	2.53			
	For >1,000, Deduct	-1.75			
33 41 16 13-0048	LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	34.56		8.48	
	For <100, Add	3.00			
	For >1,000, Deduct	-2.15			
33 41 16 13-0049	LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	47.37		9.55	
	For <100, Add	3.80			
	For >1,000, Deduct	-2.85			
33 41 16 13-0050	Perforated Non-Reinforced Concrete Drainage Piping, C444 (33 41 16 13)				
33 41 16 13-0051	LF 6" Perforated Non-Reinforced Concrete Drainage Pipe.....	38.18		13.73	
	For Extra Strength, Add	2.18			
	For >1,000, Deduct	-1.91			
33 41 16 13-0052	LF 8" Perforated Non-Reinforced Concrete Drainage Pipe.....	44.69		15.26	
	For Extra Strength, Add	2.69			
	For >1,000, Deduct	-2.23			
33 41 16 13-0053	LF 10" Perforated Non-Reinforced Concrete Drainage Pipe.....	50.60		16.78	
	For Extra Strength, Add	3.13			
	For >1,000, Deduct	-2.53			
33 41 16 13-0054	LF 12" Perforated Non-Reinforced Concrete Drainage Pipe.....	59.52		18.31	
	For Extra Strength, Add	3.92			
	For >1,000, Deduct	-2.98			
33 41 16 13-0055	Extra Strength Porous Non-Reinforced Concrete Drainage Piping, C654 (33 41 16 13)				
Note: Bell and spigot or tongue and groove. With seals and gaskets.					
33 41 16 13-0056	LF 6" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	31.42		13.73	
	For >1,000, Deduct	-1.57			
33 41 16 13-0057	LF 8" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	34.77		15.26	
	For >1,000, Deduct	-1.74			
33 41 16 13-0058	LF 10" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	38.35		16.78	
	For >1,000, Deduct	-1.92			
33 41 16 13-0059	LF 12" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	43.85		17.44	
	For >1,000, Deduct	-2.19			
33 41 16 13-0060	LF 15" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	51.03		19.62	
	For >1,000, Deduct	-2.55			
33 41 16 13-0061	LF 18" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	63.14		25.06	
	For >1,000, Deduct	-3.16			
33 41 16 13-0062	LF 21" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	78.84		32.15	
	For >1,000, Deduct	-3.94			
33 41 16 13-0063	LF 24" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe	96.14		39.23	
	For >1,000, Deduct	-4.81			
33 41 16 13-0064	Standard Strength Porous Non-Reinforced Concrete Drainage Piping, C654 (33 41 16 13)				
33 41 16 13-0065	LF 6" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe	29.19		13.73	
	For >1,000, Deduct	-1.46			
33 41 16 13-0066	LF 8" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe	37.24		15.26	
	For >1,000, Deduct	-1.86			
33 41 16 13-0067	LF 10" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe	47.29		16.78	
	For >1,000, Deduct	-2.36			



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Subdrainage	33 41	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 41 16 13-0068	LF	12" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe.....		57.54	18.31
		For >1,000, Deduct		-2.88	
33 41 16 13-0069	LF	15" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe.....		65.95	20.36
		For >1,000, Deduct		-3.30	
33 41 16 13-0070	LF	18" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe.....		85.55	25.41
		For >1,000, Deduct		-4.28	
33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 (33 41 16 13)					
33 41 16 13-0072	LF	4" Perforated Vitrified Clay Drainage Pipe.....		29.10	15.26
33 41 16 13-0073	LF	6" Perforated Vitrified Clay Drainage Pipe.....		34.87	17.16
33 41 16 13-0074	LF	8" Perforated Vitrified Clay Drainage Pipe.....		40.05	17.16
33 41 16 13-0075	LF	10" Perforated Vitrified Clay Drainage Pipe.....		53.91	20.97
33 41 16 13-0076	LF	12" Perforated Vitrified Clay Drainage Pipe.....		64.30	22.89
33 41 16 13-0077 Geotextile Filter Fabric Sock (33 41 16 13)					
33 41 16 13-0078	LF	3" Geotextile Filter Fabric Sock		0.89	
33 41 16 13-0079	LF	4" Geotextile Filter Fabric Sock		1.17	
33 41 16 13-0080	LF	6" Geotextile Filter Fabric Sock		1.78	
33 41 16 13-0081	LF	8" Geotextile Filter Fabric Sock		2.40	
33 41 16 13-0082	LF	10" Geotextile Filter Fabric Sock		3.59	
33 41 16 13-0083	LF	12" Geotextile Filter Fabric Sock		4.94	
33 41 16 13-0084	LF	15" Geotextile Filter Fabric Sock		5.95	
33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16 13)					
		Note: Perforations are located in the bottom quarter points of the pipe.			
33 41 16 13-0086	LF	6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe		26.69	6.54
		For Full Perforated, Add		1.36	
33 41 16 13-0087	LF	8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe		33.79	7.93
		For Full Perforated, Add		1.79	
33 41 16 13-0088	LF	10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe		42.62	10.06
		For Full Perforated, Add		2.25	
33 41 16 13-0089	LF	12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe		47.31	11.89
		For Full Perforated, Add		2.35	
33 41 16 13-0090	LF	15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe		54.19	12.31
		For Full Perforated, Add		2.96	
33 41 16 13-0091	LF	18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe		61.22	12.76
		For Full Perforated, Add		3.57	
33 41 16 13-0092	LF	21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe		70.02	13.76
		For Full Perforated, Add		4.25	
33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13)					
		Note: Perforations are located in the bottom quarter points of the pipe.			
33 41 16 13-0094	LF	6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe		28.88	6.54
		For Full Perforated, Add		1.58	
33 41 16 13-0095	LF	8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe		36.76	7.93
		For Full Perforated, Add		2.09	
33 41 16 13-0096	LF	10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe		46.24	10.06
		For Full Perforated, Add		2.61	
33 41 16 13-0097	LF	12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe		50.83	11.89
		For Full Perforated, Add		2.71	
33 41 16 13-0098	LF	15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe		58.54	12.31
		For Full Perforated, Add		3.39	
33 41 16 13-0099	LF	18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe		66.39	12.76
		For Full Perforated, Add		4.09	
33 41 16 13-0100	LF	21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe		76.04	13.76
		For Full Perforated, Add		4.85	
33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe (33 41 16 13)					
		Note: Perforations are located in the bottom quarter points of the pipe.			
33 41 16 13-0102	LF	6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe		29.59	6.54
		For Full Perforated, Add		1.65	
33 41 16 13-0103	LF	8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe		37.67	7.93
		For Full Perforated, Add		2.18	
33 41 16 13-0104	LF	10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe		47.40	10.06
		For Full Perforated, Add		2.73	
33 41 16 13-0105	LF	12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe		59.52	11.89
		For Full Perforated, Add		3.57	
33 41 16 13-0106	LF	15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe		69.36	12.31
		For Full Perforated, Add		4.47	
33 41 16 13-0107	LF	18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe		79.50	12.76
		For Full Perforated, Add		5.40	
33 41 16 13-0108	LF	21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe		91.34	13.76
		For Full Perforated, Add		6.38	
33 41 16 13-0109 Prefabricated Composite Drains (33 41 16 13)					

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 41 16 13-0110	Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) ^(33 41 16 13-0109)		
	Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.		
33 41 16 13-0111	LF 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	12.13	2.52
	For External Typar Geotextile Wrap, Add	2.23	
33 41 16 13-0112	EA Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	54.87	
33 41 16 13-0113	EA End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	54.87	
33 41 16 13-0114	EA Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	106.47	
33 41 16 13-0115	EA End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	106.47	
33 41 16 13-0116	LF 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	19.40	3.15
	For External Typar Geotextile Wrap, Add	3.34	
33 41 16 13-0117	EA Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	81.36	
33 41 16 13-0118	EA End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	81.36	
33 41 16 13-0119	EA Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	139.95	
33 41 16 13-0120	EA End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	139.95	

33 41 19 Underslab Drainage ^(33 41)**33 41 19 13 Underslab Drainage Piping ^(33 41 19)**

33 41 19 13-0001	Capillary Water Barrier Underslab Drainage ^(33 41 19 13)		
	Note: Consists of a layer of fine granular material overlying a coarse layer.		
33 41 19 13-0002	CY 2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	61.29	
33 41 19 13-0003	CY 4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	58.38	
33 41 19 13-0004	CY 6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	57.22	
33 41 19 13-0005	CY 8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	55.48	

33 42 Stormwater Conveyance ^(33 40)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 42 11 Stormwater Gravity Piping ^(33 42)**33 42 11 00-0001 Reinforced Concrete Piping ^(33 42 11)**

Note: Includes detectable tracer wire.

33 42 11 00-0002	Class 3 Reinforced Concrete Pipe Without Gaskets ^(33 42 11 00-0001)		
33 42 11 00-0003	LF 12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	57.31	18.31
	For Class 4, Add	2.96	
	For Class 5, Add	6.23	
	For >1,000, Deduct	-2.87	
33 42 11 00-0004	LF 15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	69.00	20.36
	For Class 4, Add	3.79	
	For Class 5, Add	7.98	
	For >1,000, Deduct	-3.45	
33 42 11 00-0005	LF 18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	78.27	25.41
	For Class 4, Add	3.99	
	For Class 5, Add	8.40	
	For >1,000, Deduct	-3.91	
33 42 11 00-0006	LF 21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	100.32	32.04
	For Class 4, Add	5.18	
	For Class 5, Add	10.91	
	For >1,000, Deduct	-5.02	
33 42 11 00-0007	LF 24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	117.31	38.90
	For Class 4, Add	5.86	
	For Class 5, Add	12.35	
	For >1,000, Deduct	-5.87	
33 42 11 00-0008	LF 27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	149.43	50.06
	For Class 4, Add	7.40	
	For Class 5, Add	15.58	
	For >1,000, Deduct	-7.47	
33 42 11 00-0009	LF 30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	159.00	51.70
	For Class 4, Add	8.01	
	For Class 5, Add	16.85	
	For >1,000, Deduct	-7.95	
33 42 11 00-0010	LF 36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	197.35	58.75
	For Class 4, Add	10.86	
	For Class 5, Add	22.86	
	For >1,000, Deduct	-9.87	
33 42 11 00-0011	LF 42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	256.78	64.62
	For Class 4, Add	15.71	
	For Class 5, Add	33.07	
	For >1,000, Deduct	-12.84	
33 42 11 00-0012	LF 48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	307.92	71.96
	For Class 4, Add	19.49	
	For Class 5, Add	41.02	
	For >1,000, Deduct	-15.40	
33 42 11 00-0013	LF 54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	383.82	82.25
	For Class 4, Add	25.30	
	For Class 5, Add	53.26	
	For >1,000, Deduct	-19.19	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0014	LF		60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	463.84	95.41
			For Class 4, Add	31.12	
			For Class 5, Add	65.51	
			For >1,000, Deduct	-23.19	
33 42 11 00-0015	LF		66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	718.63	105.75
			For Class 4, Add	53.98	
			For Class 5, Add	113.65	
			For >1,000, Deduct	-35.93	
33 42 11 00-0016	LF		72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	839.08	115.14
			For Class 4, Add	64.09	
			For Class 5, Add	134.92	
			For >1,000, Deduct	-41.95	
33 42 11 00-0017	LF		78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	1,009.80	129.24
			For Class 4, Add	78.35	
			For Class 5, Add	164.95	
			For >1,000, Deduct	-50.49	
33 42 11 00-0018	LF		84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	1,302.78	143.94
			For Class 4, Add	104.23	
			For Class 5, Add	219.43	
			For >1,000, Deduct	-65.14	
33 42 11 00-0019	LF		14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	139.09	33.78
			For Class 4, Add	8.63	
			For Class 5, Add	18.16	
			For Horizontal Elliptical - II (HE- II), Add	9.08	
			For Horizontal Elliptical - III (HE- III), Add	19.98	
			For Horizontal Elliptical - IV (HE- IV), Add	43.59	
			For >1,000, Deduct	-6.95	
33 42 11 00-0020	LF		19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	192.74	51.74
			For Class 4, Add	11.29	
			For Class 5, Add	23.76	
			For Horizontal Elliptical - II (HE- II), Add	11.88	
			For Horizontal Elliptical - III (HE- III), Add	26.14	
			For Horizontal Elliptical - IV (HE- IV), Add	57.03	
			For >1,000, Deduct	-9.64	
33 42 11 00-0021	LF		22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	227.97	66.59
			For Class 4, Add	12.62	
			For Class 5, Add	26.57	
			For Horizontal Elliptical - II (HE- II), Add	13.28	
			For Horizontal Elliptical - III (HE- III), Add	29.22	
			For Horizontal Elliptical - IV (HE- IV), Add	63.76	
			For >1,000, Deduct	-11.40	
33 42 11 00-0022	LF		24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	242.07	69.57
			For Class 4, Add	13.55	
			For Class 5, Add	28.54	
			For Horizontal Elliptical - II (HE- II), Add	14.27	
			For Horizontal Elliptical - III (HE- III), Add	31.39	
			For Horizontal Elliptical - IV (HE- IV), Add	68.49	
			For >1,000, Deduct	-12.10	
33 42 11 00-0023	LF		27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	278.44	73.46
			For Class 4, Add	16.48	
			For Class 5, Add	34.70	
			For Horizontal Elliptical - II (HE- II), Add	17.35	
			For Horizontal Elliptical - III (HE- III), Add	38.17	
			For Horizontal Elliptical - IV (HE- IV), Add	83.28	
			For >1,000, Deduct	-13.92	
33 42 11 00-0024	LF		29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	314.80	77.34
			For Class 4, Add	19.41	
			For Class 5, Add	40.86	
			For Horizontal Elliptical - II (HE- II), Add	20.43	
			For Horizontal Elliptical - III (HE- III), Add	44.95	
			For Horizontal Elliptical - IV (HE- IV), Add	98.07	
			For >1,000, Deduct	-15.74	
33 42 11 00-0025	LF		34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	384.43	85.10
			For Class 4, Add	24.97	
			For Class 5, Add	52.57	
			For Horizontal Elliptical - II (HE- II), Add	26.29	
			For Horizontal Elliptical - III (HE- III), Add	57.83	
			For Horizontal Elliptical - IV (HE- IV), Add	126.17	
			For >1,000, Deduct	-19.22	
33 42 11 00-0026	LF		38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	463.76	95.71
			For Class 4, Add	31.07	
			For Class 5, Add	65.40	
			For Horizontal Elliptical - II (HE- II), Add	32.70	
			For Horizontal Elliptical - III (HE- III), Add	71.94	
			For Horizontal Elliptical - IV (HE- IV), Add	156.97	
			For >1,000, Deduct	-23.19	
33 42 11 00-0027	LF		43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	527.88	109.39
			For Class 4, Add	35.30	
			For Class 5, Add	74.32	
			For Horizontal Elliptical - II (HE- II), Add	37.16	
			For Horizontal Elliptical - III (HE- III), Add	81.75	
			For Horizontal Elliptical - IV (HE- IV), Add	178.37	
			For >1,000, Deduct	-26.39	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0028 LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	654.47	126.90
For Class 4, Add	44.95	
For Class 5, Add	94.64	
For Horizontal Elliptical - II (HE- II), Add	47.32	
For Horizontal Elliptical - III (HE- III), Add	104.10	
For Horizontal Elliptical - IV (HE- IV), Add	227.14	
For >1,000, Deduct	-32.72	
33 42 11 00-0029 LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	747.41	139.82
For Class 4, Add	52.03	
For Class 5, Add	109.53	
For >1,000, Deduct	-37.37	
33 42 11 00-0030 LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	907.77	152.75
For Class 4, Add	65.45	
For Class 5, Add	137.80	
For >1,000, Deduct	-45.39	
33 42 11 00-0031 LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	1,085.30	172.73
For Class 4, Add	79.72	
For Class 5, Add	167.83	
For >1,000, Deduct	-54.27	
33 42 11 00-0032 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	1,174.47	191.52
For Class 4, Add	85.59	
For Class 5, Add	180.20	
For >1,000, Deduct	-58.72	
33 42 11 00-0033 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,507.92	200.92
For Class 4, Add	115.97	
For Class 5, Add	244.15	
For >1,000, Deduct	-75.40	
33 42 11 00-0034 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,749.48	210.32
For Class 4, Add	137.62	
For Class 5, Add	289.73	
For >1,000, Deduct	-87.47	
33 42 11 00-0035 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0036 EA 12" Concrete Reducing Wye Without Gaskets.....	715.24	69.74
33 42 11 00-0037 EA 15" Concrete Reducing Wye Without Gaskets.....	857.54	85.00
33 42 11 00-0038 EA 18" Concrete Reducing Wye Without Gaskets.....	1,060.98	93.72
33 42 11 00-0039 EA 21" Concrete Reducing Wye Without Gaskets.....	1,216.68	115.52
33 42 11 00-0040 EA 24" Concrete Reducing Wye Without Gaskets.....	1,374.06	139.49
33 42 11 00-0041 Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0042 EA 12" Diameter Concrete Pipe Joint Gasket	6.91	
33 42 11 00-0043 EA 15" Diameter Concrete Pipe Joint Gasket	8.17	
33 42 11 00-0044 EA 18" Diameter Concrete Pipe Joint Gasket	9.47	
33 42 11 00-0045 EA 21" Diameter Concrete Pipe Joint Gasket	11.45	
33 42 11 00-0046 EA 24" Diameter Concrete Pipe Joint Gasket	13.41	
33 42 11 00-0047 EA 27" Diameter Concrete Pipe Joint Gasket	14.95	
33 42 11 00-0048 EA 30" Diameter Concrete Pipe Joint Gasket	16.42	
33 42 11 00-0049 EA 36" Diameter Concrete Pipe Joint Gasket	20.06	
33 42 11 00-0050 EA 42" Diameter Concrete Pipe Joint Gasket	23.26	
33 42 11 00-0051 EA 48" Diameter Concrete Pipe Joint Gasket	26.83	
33 42 11 00-0052 EA 54" Diameter Concrete Pipe Joint Gasket	32.88	
33 42 11 00-0053 EA 60" Diameter Concrete Pipe Joint Gasket	48.67	
33 42 11 00-0054 EA 66" Diameter Concrete Pipe Joint Gasket	50.60	
33 42 11 00-0055 EA 72" Diameter Concrete Pipe Joint Gasket	52.46	
33 42 11 00-0056 EA 78" Diameter Concrete Pipe Joint Gasket	60.42	
33 42 11 00-0057 EA 84" Diameter Concrete Pipe Joint Gasket	72.43	
33 42 11 00-0058 Couplings (33 42 11 00-0001)		
33 42 11 00-0059 Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)		
Flexible Pipe Couplings (33 42 11 00-0058)		
Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.		
33 42 11 00-0060 EA 4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	40.01	
33 42 11 00-0061 EA 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	37.48	
33 42 11 00-0062 EA 6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	60.17	
33 42 11 00-0063 EA 6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	62.20	
33 42 11 00-0064 EA 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	58.31	
33 42 11 00-0065 EA 8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	85.63	
33 42 11 00-0066 EA 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	75.06	
33 42 11 00-0067 EA 10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	106.27	
33 42 11 00-0068 EA 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	95.11	
33 42 11 00-0069 EA 12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	127.21	
33 42 11 00-0070 EA 12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	107.89	
33 42 11 00-0071 EA 15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	317.25	
33 42 11 00-0072 Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0073 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	295.27	206.80
33 42 11 00-0074 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	364.26	256.15



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-0075	EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	452.04		324.29	
33 42 11 00-0076	EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	535.14		387.74	
33 42 11 00-0077	EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	615.77		448.73	
33 42 11 00-0078	EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	760.07		573.39	
33 42 11 00-0079	EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	996.09		789.59	
33 42 11 00-0080	EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,242.34		996.39	
33 42 11 00-0081	EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,535.00		1,249.94	
33 42 11 00-0082	EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,718.46		1,408.81	
33 42 11 00-0083	EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,918.91		1,579.18	
33 42 11 00-0084	EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,122.30		1,754.25	
33 42 11 00-0085	EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,205.20		1,821.23	
33 42 11 00-0086	EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,278.10		1,879.97	
33 42 11 00-0087	EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,351.00		1,938.72	
33 42 11 00-0088	EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,425.68		1,997.47	
33 42 11 00-0089 Strap Assembly (33 42 11 00-0001)					
Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.					
33 42 11 00-0090	EA Up To 24" Diameter Pipe, 12' Strap Assembly	267.68			
33 42 11 00-0091	EA >24" Diameter Pipe, 12' Strap Assembly	378.05			
33 42 11 00-0092 Prestressed Concrete Cylinder Piping (33 42 11)					
Note: Includes detectable tracer wire.					
33 42 11 00-0093 150 PSI Prestressed Concrete Cylinder Pipe And Fittings (33 42 11 00-0092)					
33 42 11 00-0094 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets (33 42 11 00-0093)					
Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".					
33 42 11 00-0095	LF 12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	160.42		18.31	
	For 100 PSI, Deduct	-33.57			
	For >1,000, Deduct	-8.02			
33 42 11 00-0096	LF 15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	171.13		20.36	
	For 100 PSI, Deduct	-35.51			
	For >1,000, Deduct	-8.56			
33 42 11 00-0097	LF 18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	186.10		25.41	
	For 100 PSI, Deduct	-37.45			
	For >1,000, Deduct	-9.31			
33 42 11 00-0098	LF 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	203.36		32.04	
	For 100 PSI, Deduct	-39.40			
	For >1,000, Deduct	-10.17			
33 42 11 00-0099	LF 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	220.94		38.90	
	For 100 PSI, Deduct	-41.34			
	For >1,000, Deduct	-11.05			
33 42 11 00-0100	LF 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	259.87		51.70	
	For 100 PSI, Deduct	-46.29			
	For >1,000, Deduct	-12.99			
33 42 11 00-0101	LF 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	288.00		58.75	
	For 100 PSI, Deduct	-51.23			
	For >1,000, Deduct	-14.40			
33 42 11 00-0102	LF 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	334.51		64.62	
	For 100 PSI, Deduct	-60.77			
	For >1,000, Deduct	-16.73			
33 42 11 00-0103	LF 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	384.06		71.96	
	For 100 PSI, Deduct	-70.31			
	For >1,000, Deduct	-19.20			
33 42 11 00-0104	LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	509.76		93.67	
	For 100 PSI, Deduct	-93.99			
	For >1,000, Deduct	-25.49			
33 42 11 00-0105	LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	614.56		108.66	
	For 100 PSI, Deduct	-114.83			
	For >1,000, Deduct	-30.73			
33 42 11 00-0106	LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	690.68		120.43	
	For 100 PSI, Deduct	-129.85			
	For >1,000, Deduct	-34.53			
33 42 11 00-0107	LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	770.33		131.13	
	For 100 PSI, Deduct	-145.75			
	For >1,000, Deduct	-38.52			
33 42 11 00-0108	LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	875.01		147.19	
	For 100 PSI, Deduct	-166.07			
	For >1,000, Deduct	-43.75			
33 42 11 00-0109	LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	979.70		163.92	
	For 100 PSI, Deduct	-186.38			
	For >1,000, Deduct	-48.99			
33 42 11 00-0110	LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,210.64		191.35	
	For 100 PSI, Deduct	-234.08			
	For >1,000, Deduct	-60.53			
33 42 11 00-0111	LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,425.18		218.52	
	For 100 PSI, Deduct	-278.25			
	For >1,000, Deduct	-71.26			
33 42 11 00-0112	LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,658.43		233.41	
	For 100 PSI, Deduct	-331.25			
	For >1,000, Deduct	-82.92			

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0113 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	1,873.41 -379.83 -93.67	247.86
33 42 11 00-0114 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	2,265.06 -472.58 -113.25	262.32
33 42 11 00-0115 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	2,637.29 -560.91 -131.86	275.55
33 42 11 00-0116 LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	2,875.26 -615.68 -143.76	288.78
33 42 11 00-0117 LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	3,116.76 -671.33 -155.84	302.02
33 42 11 00-0118 LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	3,356.49 -726.54 -167.82	315.25
33 42 11 00-0119 LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	3,596.23 -781.74 -179.81	328.48

33 42 11 00-0120 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets ^(33 42 11 00-0093)

33 42 11 00-0121 EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	523.48	171.64
33 42 11 00-0122 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	723.59	245.20
33 42 11 00-0123 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	929.45	326.93
33 42 11 00-0124 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,135.31	408.66
33 42 11 00-0125 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,377.12	507.83
33 42 11 00-0126 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,765.32	681.09
33 42 11 00-0127 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,209.98	822.49
33 42 11 00-0128 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,573.58	959.96
33 42 11 00-0129 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,896.43	1,096.26
33 42 11 00-0130 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,561.85	1,368.86
33 42 11 00-0131 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,691.85	1,873.40
33 42 11 00-0132 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,229.11	2,074.13
33 42 11 00-0133 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,766.37	2,274.84
33 42 11 00-0134 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,964.11	2,609.38
33 42 11 00-0135 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,154.45	2,943.92
33 42 11 00-0136 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,662.43	3,345.36
33 42 11 00-0137 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,163.03	3,746.80
33 42 11 00-0138 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,790.47	4,692.59
33 42 11 00-0139 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,448.59	5,631.10
33 42 11 00-0140 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	23,961.55	7,508.15
33 42 11 00-0141 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,385.66	9,385.18
33 42 11 00-0142 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	33,198.29	10,122.59
33 42 11 00-0143 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	37,015.90	10,859.99
33 42 11 00-0144 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	48,501.71	11,597.40
33 42 11 00-0145 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	44,729.78	12,334.81

33 42 11 00-0146 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets ^(33 42 11 00-0093)

33 42 11 00-0147 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	487.44	171.64
33 42 11 00-0148 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	676.95	245.20
33 42 11 00-0149 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	874.33	326.93
33 42 11 00-0150 EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,071.71	408.66
33 42 11 00-0151 EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,305.04	507.83
33 42 11 00-0152 EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,666.39	635.32
33 42 11 00-0153 EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,096.91	822.49
33 42 11 00-0154 EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,442.85	959.96
33 42 11 00-0155 EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,755.80	1,096.26
33 42 11 00-0156 EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,361.77	1,368.86
33 42 11 00-0157 EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,501.51	1,873.40
33 42 11 00-0158 EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,024.98	2,074.13
33 42 11 00-0159 EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,548.45	2,274.84
33 42 11 00-0160 EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,455.42	2,609.38
33 42 11 00-0161 EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,355.00	2,943.92
33 42 11 00-0162 EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,653.53	3,345.36
33 42 11 00-0163 EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,944.68	3,746.80
33 42 11 00-0164 EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,977.58	4,683.50
33 42 11 00-0165 EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,077.53	5,631.10
33 42 11 00-0166 EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	21,013.60	7,508.15
33 42 11 00-0167 EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,860.84	9,385.18
33 42 11 00-0168 EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	28,897.38	10,122.59
33 42 11 00-0169 EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	31,938.91	12,334.81
33 42 11 00-0170 EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	34,992.19	11,597.40
33 42 11 00-0171 EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	38,407.98	12,334.81

33 42 11 00-0172 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints ^(33 42 11 00-0092)



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0173		400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0172) Note: AWWA C301		
33 42 11 00-0174	LF	30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints For >1,000, Deduct	306.35 -15.32	51.70
33 42 11 00-0175	LF	36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints For >1,000, Deduct	373.82 -18.69	58.75
33 42 11 00-0176	LF	42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints For >1,000, Deduct	436.39 -21.82	64.62
33 42 11 00-0177		400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0172) Note: AWWA C301		
33 42 11 00-0178	LF	48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints For >1,000, Deduct	588.71 -29.44	71.91
33 42 11 00-0179	LF	54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints For >1,000, Deduct	706.19 -35.31	93.67
33 42 11 00-0180	LF	60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints For >1,000, Deduct	814.07 -40.70	108.66
33 42 11 00-0181	LF	66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints For >1,000, Deduct	916.59 -45.83	120.43
33 42 11 00-0182	LF	72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints For >1,000, Deduct	1,110.81 -55.54	131.13
33 42 11 00-0183		Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0172) Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0184	EA	30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,390.02	
33 42 11 00-0185	EA	36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,567.06	
33 42 11 00-0186	EA	42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,655.57	
33 42 11 00-0187	EA	48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,009.65	
33 42 11 00-0188	EA	54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,098.17	
33 42 11 00-0189	EA	60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,275.21	
33 42 11 00-0190	EA	66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,363.73	
33 42 11 00-0191	EA	72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,452.25	
33 42 11 00-0192	EA	30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,425.96	
33 42 11 00-0193	EA	36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,425.96	
33 42 11 00-0194	EA	42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,045.59	
33 42 11 00-0195	EA	48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,045.59	
33 42 11 00-0196	EA	54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,399.67	
33 42 11 00-0197	EA	60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,399.67	
33 42 11 00-0198	EA	66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,842.26	
33 42 11 00-0199	EA	72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,842.26	
33 42 11 00-0200		Quick Test Joints (33 42 11 00-0172)		
33 42 11 00-0201	EA	30" Quick Test Joint.....	655.07	
33 42 11 00-0202	EA	36" Quick Test Joint.....	660.95	
33 42 11 00-0203	EA	42" Quick Test Joint.....	666.83	
33 42 11 00-0204	EA	48" Quick Test Joint.....	680.43	
33 42 11 00-0205	EA	54" Quick Test Joint.....	712.91	
33 42 11 00-0206	EA	60" Quick Test Joint.....	739.15	
33 42 11 00-0207	EA	66" Quick Test Joint.....	778.28	
33 42 11 00-0208	EA	72" Quick Test Joint.....	817.40	
33 42 11 00-0209		Harnessed Joints (33 42 11 00-0172)		
33 42 11 00-0210		Harness Clamp Restrained Joints (33 42 11 00-0209)		
33 42 11 00-0211	EA	30" Harness Clamp Restrained Joint.....	13,062.10	
33 42 11 00-0212	EA	36" Harness Clamp Restrained Joint.....	13,566.75	
33 42 11 00-0213	EA	42" Harness Clamp Restrained Joint.....	14,071.41	
33 42 11 00-0214	EA	48" Harness Clamp Restrained Joint.....	14,576.05	
33 42 11 00-0215	EA	54" Harness Clamp Restrained Joint.....	15,097.02	
33 42 11 00-0216	EA	60" Harness Clamp Restrained Joint.....	15,858.55	
33 42 11 00-0217	EA	66" Harness Clamp Restrained Joint.....	16,370.72	
33 42 11 00-0218	EA	72" Harness Clamp Restrained Joint.....	17,531.28	
33 42 11 00-0219		Snap Ring Restrained Joints (33 42 11 00-0209)		
33 42 11 00-0220	EA	30" Snap Ring Restrained Joint.....	2,089.08	
33 42 11 00-0221	EA	36" Snap Ring Restrained Joint.....	2,394.23	
33 42 11 00-0222	EA	42" Snap Ring Restrained Joint.....	3,248.02	
33 42 11 00-0223	EA	48" Snap Ring Restrained Joint.....	3,702.79	
33 42 11 00-0224	EA	54" Snap Ring Restrained Joint.....	4,173.89	
33 42 11 00-0225	EA	60" Snap Ring Restrained Joint.....	4,735.91	
33 42 11 00-0226	EA	66" Snap Ring Restrained Joint.....	5,248.07	
33 42 11 00-0227	EA	72" Snap Ring Restrained Joint.....	5,859.98	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0228 Pipe Repairs (33 42 11 00-0172) Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.		
33 42 11 00-0229 Lined Cylinder Pipe Repair (33 42 11 00-0228)		
33 42 11 00-0230 EA 30" Lined Cylinder Pipe Repair	6,522.13	
33 42 11 00-0231 EA 36" Lined Cylinder Pipe Repair	8,073.55	
33 42 11 00-0232 EA 42" Lined Cylinder Pipe Repair	11,689.73	
33 42 11 00-0233 Embedded Cylinder Pipe Repair (33 42 11 00-0228) Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0234 EA 48" Embedded Cylinder Pipe Repair	17,543.82	
33 42 11 00-0235 EA 54" Embedded Cylinder Pipe Repair	20,392.57	
33 42 11 00-0236 EA 60" Embedded Cylinder Pipe Repair	23,260.88	
33 42 11 00-0237 EA 66" Embedded Cylinder Pipe Repair	26,282.49	
33 42 11 00-0238 EA 72" Embedded Cylinder Pipe Repair	31,671.64	
33 42 11 00-0239 High-Density Polyethylene (HDPE) Drainage Piping (33 42 11) Note: Includes detectable tracer wire.		
33 42 11 00-0240 Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0239) Note: Excludes couplings and gaskets.		
33 42 11 00-0241 Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0240)		
33 42 11 00-0242 LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	16.88	7.59
For <100, Add	3.04	
For >1,000, Deduct	-1.60	
33 42 11 00-0243 LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	21.97	8.83
For <100, Add	3.53	
For >1,000, Deduct	-1.98	
33 42 11 00-0244 LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	26.99	10.26
For <100, Add	4.10	
For >1,000, Deduct	-2.38	
33 42 11 00-0245 LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	30.57	10.62
For <100, Add	4.25	
For >1,000, Deduct	-2.59	
33 42 11 00-0246 LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	32.14	11.00
For <100, Add	4.40	
For >1,000, Deduct	-2.71	
33 42 11 00-0247 LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	36.37	11.39
For <100, Add	4.55	
For >1,000, Deduct	-2.96	
33 42 11 00-0248 LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	43.89	11.80
For <100, Add	4.72	
For >1,000, Deduct	-3.38	
33 42 11 00-0249 LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	59.95	13.83
For <100, Add	5.53	
For >1,000, Deduct	-4.38	
33 42 11 00-0250 LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	84.94	18.61
For <100, Add	7.45	
For >1,000, Deduct	-6.11	
33 42 11 00-0251 LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	111.55	23.52
For <100, Add	9.41	
For >1,000, Deduct	-7.93	
33 42 11 00-0252 Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0240)		
33 42 11 00-0253 LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	31.96	11.00
For <100, Add	4.40	
For >1,000, Deduct	-2.70	
33 42 11 00-0254 LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	37.08	11.39
For <100, Add	4.55	
For >1,000, Deduct	-2.99	
33 42 11 00-0255 LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	44.96	11.80
For <100, Add	4.72	
For >1,000, Deduct	-3.43	
33 42 11 00-0256 LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	61.65	13.83
For <100, Add	5.53	
For >1,000, Deduct	-4.47	
33 42 11 00-0257 LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	89.59	18.61
For <100, Add	7.45	
For >1,000, Deduct	-6.34	
33 42 11 00-0258 LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	115.01	23.52
For <100, Add	9.41	
For >1,000, Deduct	-8.10	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0259	LF		42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	149.43	25.66
			For <100, Add	10.27	
			For >1,000, Deduct	-10.04	
33 42 11 00-0260	LF		48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	163.04	28.95
			For <100, Add	11.58	
			For >1,000, Deduct	-11.05	
33 42 11 00-0261			Perforated, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0239)		
			Note: Excludes couplings and gaskets.		
33 42 11 00-0262			Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0261)		
33 42 11 00-0263	LF		4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	17.77	7.59
			For <100, Add	3.04	
			For >1,000, Deduct	-1.65	
33 42 11 00-0264	LF		6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	22.00	8.83
			For <100, Add	3.53	
			For >1,000, Deduct	-1.98	
33 42 11 00-0265	LF		8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	26.99	10.26
			For <100, Add	4.10	
			For >1,000, Deduct	-2.38	
33 42 11 00-0266	LF		10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	30.60	10.62
			For <100, Add	4.25	
			For >1,000, Deduct	-2.59	
33 42 11 00-0267	LF		12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	32.14	11.00
			For <100, Add	4.40	
			For >1,000, Deduct	-2.71	
33 42 11 00-0268	LF		15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	36.40	11.39
			For <100, Add	4.55	
			For >1,000, Deduct	-2.96	
33 42 11 00-0269	LF		18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	43.92	11.80
			For <100, Add	4.72	
			For >1,000, Deduct	-3.38	
33 42 11 00-0270	LF		24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	59.95	13.83
			For <100, Add	5.53	
			For >1,000, Deduct	-4.38	
33 42 11 00-0271	LF		30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	85.24	18.61
			For <100, Add	7.45	
			For >1,000, Deduct	-6.12	
33 42 11 00-0272	LF		36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	111.55	23.52
			For <100, Add	9.41	
			For >1,000, Deduct	-7.93	
33 42 11 00-0273			Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0261)		
33 42 11 00-0274	LF		12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	31.99	11.00
			For <100, Add	4.40	
			For >1,000, Deduct	-2.70	
33 42 11 00-0275	LF		15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	37.11	11.39
			For <100, Add	4.55	
			For >1,000, Deduct	-2.99	
33 42 11 00-0276	LF		18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	44.99	11.80
			For <100, Add	4.72	
			For >1,000, Deduct	-3.43	
33 42 11 00-0277	LF		24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	61.65	13.83
			For <100, Add	5.53	
			For >1,000, Deduct	-4.47	
33 42 11 00-0278	LF		30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	89.59	18.61
			For <100, Add	7.45	
			For >1,000, Deduct	-6.34	
33 42 11 00-0279	LF		36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	115.01	23.52
			For <100, Add	9.41	
			For >1,000, Deduct	-8.10	
33 42 11 00-0280	LF		42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	149.43	25.66
			For <100, Add	10.27	
			For >1,000, Deduct	-10.04	
33 42 11 00-0281	LF		48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	163.04	28.95
			For <100, Add	11.58	
			For >1,000, Deduct	-11.05	
33 42 11 00-0282			Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0239)		
			Note: Excludes couplings and gaskets.		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0283		Tees, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)		
		(33 42 11 00-0282)		
33 42 11 00-0284	EA	4" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	49.96	26.64
33 42 11 00-0285	EA	6" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	60.31	31.09
33 42 11 00-0286	EA	8" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	84.61	37.76
33 42 11 00-0287	EA	10" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	117.82	46.63
33 42 11 00-0288	EA	12" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	167.35	55.52
33 42 11 00-0289	EA	15" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	230.23	72.54
33 42 11 00-0290	EA	18" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	324.31	97.70
33 42 11 00-0291	EA	24" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	401.08	111.53
33 42 11 00-0292	EA	30" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	633.85	128.80
33 42 11 00-0293	EA	36" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	796.99	148.79
33 42 11 00-0294	EA	42" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	1,254.93	177.66
33 42 11 00-0295	EA	48" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	1,562.80	210.97
33 42 11 00-0296		Wyes, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)		
		(33 42 11 00-0282)		
33 42 11 00-0297	EA	4" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	60.49	26.64
33 42 11 00-0298	EA	6" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	71.86	31.09
33 42 11 00-0299	EA	8" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	91.90	37.76
33 42 11 00-0300	EA	10" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	125.85	46.63
33 42 11 00-0301	EA	12" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	193.20	55.52
33 42 11 00-0302	EA	15" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	222.30	72.54
33 42 11 00-0303	EA	18" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	308.88	97.70
33 42 11 00-0304		22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)		
		(33 42 11 00-0282)		
33 42 11 00-0305	EA	4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	31.98	17.77
33 42 11 00-0306	EA	6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	38.24	20.73
33 42 11 00-0307	EA	8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	50.57	25.17
33 42 11 00-0308	EA	10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	63.04	31.09
33 42 11 00-0309	EA	12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	83.14	37.01
33 42 11 00-0310	EA	15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	119.91	47.38
33 42 11 00-0311	EA	18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	161.35	65.14
33 42 11 00-0312	EA	24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	255.18	74.02
33 42 11 00-0313	EA	30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	337.08	85.87
33 42 11 00-0314	EA	36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	393.55	99.19
33 42 11 00-0315	EA	42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	494.37	118.43
33 42 11 00-0316	EA	48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	648.30	140.64
33 42 11 00-0317		45 Degree Bends, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)		
		(33 42 11 00-0282)		
33 42 11 00-0318	EA	4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	33.13	17.77
33 42 11 00-0319	EA	6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	40.64	20.73
33 42 11 00-0320	EA	8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	51.79	25.17
33 42 11 00-0321	EA	10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	73.00	31.09
33 42 11 00-0322	EA	12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	83.14	37.01
33 42 11 00-0323	EA	15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	119.71	47.38
33 42 11 00-0324	EA	18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	177.42	65.14
33 42 11 00-0325	EA	24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	267.59	74.02
33 42 11 00-0326	EA	30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	337.67	85.87
33 42 11 00-0327	EA	36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	420.29	99.19
33 42 11 00-0328	EA	42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	597.60	118.43
33 42 11 00-0329	EA	48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE)	740.82	140.64
33 42 11 00-0330		Couplings And End Caps, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings		
		(33 42 11 00-0239)		
Note: For single and double wall high-density polyethylene (HDPE) piping.				
33 42 11 00-0331		Couplings, Corrugated High-Density Polyethylene (HDPE) Pipe		
		(33 42 11 00-0330)		
33 42 11 00-0332	EA	4" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	0.69	
33 42 11 00-0333	EA	6" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	1.23	
33 42 11 00-0334	EA	8" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	1.90	
33 42 11 00-0335	EA	10" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	2.33	
33 42 11 00-0336	EA	12" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	2.51	
33 42 11 00-0337	EA	15" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	3.57	
33 42 11 00-0338	EA	18" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	5.28	
33 42 11 00-0339	EA	24" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	8.41	
33 42 11 00-0340	EA	30" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	12.91	
33 42 11 00-0341	EA	36" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	16.90	
33 42 11 00-0342	EA	42" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	26.56	
33 42 11 00-0343	EA	48" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	35.92	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 42 11 00-0344 Self-Adhering Gaskets, Corrugated High-Density Polyethylene (HDPE) Pipe (33 42 11 00-0330)

33 42 11 00-0345	EA	4" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	36.37
33 42 11 00-0346	EA	6" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	38.09
33 42 11 00-0347	EA	8" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	39.88
33 42 11 00-0348	EA	10" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	41.75
33 42 11 00-0349	EA	12" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	49.52
33 42 11 00-0350	EA	15" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	51.13
33 42 11 00-0351	EA	18" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	53.33
33 42 11 00-0352	EA	24" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	60.74
33 42 11 00-0353	EA	30" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	97.37
33 42 11 00-0354	EA	36" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	106.66
33 42 11 00-0355	EA	42" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	116.21
33 42 11 00-0356	EA	48" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	141.14

33 42 11 00-0357 End Caps, Corrugated High-Density Polyethylene (HDPE) Pipe (33 42 11 00-0330)

33 42 11 00-0358	EA	6" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	36.37
33 42 11 00-0359	EA	8" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	42.59
33 42 11 00-0360	EA	10" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	68.42
33 42 11 00-0361	EA	12" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	115.69
33 42 11 00-0362	EA	15" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	134.50
33 42 11 00-0363	EA	18" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	181.48
33 42 11 00-0364	EA	24" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	188.20

33 42 11 00-0365 Vitrified Clay Piping (33 42 11)

33 42 11 00-0366 Extra Strength Vitrified Clay Piping (33 42 11 00-0365)

33 42 11 00-0367 Plain Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0366)
Note: ASTM C700.

33 42 11 00-0368	LF	4" Plain Joint, Extra Strength, Vitrified Clay Pipe	24.37
		For 3' Lengths, Add	2.21
		For 2' Lengths, Add	2.94
		For Standard Strength, Deduct	-0.74
		For >1,000, Deduct	-1.22
33 42 11 00-0369	LF	6" Plain Joint, Extra Strength, Vitrified Clay Pipe	40.44
		For 3' Lengths, Add	3.43
		For 2' Lengths, Add	4.58
		For Standard Strength, Deduct	-1.14
		For >1,000, Deduct	-2.02
33 42 11 00-0370	LF	8" Plain Joint, Extra Strength, Vitrified Clay Pipe	48.57
		For 3' Lengths, Add	4.91
		For 2' Lengths, Add	6.54
		For Standard Strength, Deduct	-1.64
		For >1,000, Deduct	-2.43
33 42 11 00-0371	LF	10" Plain Joint, Extra Strength, Vitrified Clay Pipe	58.59
		For 3' Lengths, Add	7.51
		For 2' Lengths, Add	10.01
		For Standard Strength, Deduct	-2.50
		For >1,000, Deduct	-2.93
33 42 11 00-0372	LF	12" Plain Joint, Extra Strength, Vitrified Clay Pipe	71.95
		For 3' Lengths, Add	10.60
		For 2' Lengths, Add	14.14
		For Standard Strength, Deduct	-3.53
		For >1,000, Deduct	-3.60
33 42 11 00-0373	LF	15" Plain Joint, Extra Strength, Vitrified Clay Pipe	107.00
		For 3' Lengths, Add	19.88
		For 2' Lengths, Add	26.51
		For Standard Strength, Deduct	-6.63
		For >1,000, Deduct	-5.35
33 42 11 00-0374	LF	18" Plain Joint, Extra Strength, Vitrified Clay Pipe	145.79
		For 3' Lengths, Add	28.49
		For 2' Lengths, Add	37.99
		For Standard Strength, Deduct	-9.50
		For >1,000, Deduct	-7.29
33 42 11 00-0375	LF	21" Plain Joint, Extra Strength, Vitrified Clay Pipe	216.23
		For 3' Lengths, Add	45.65
		For 2' Lengths, Add	60.86
		For Standard Strength, Deduct	-15.22
		For >1,000, Deduct	-10.81
33 42 11 00-0376	LF	24" Plain Joint, Extra Strength, Vitrified Clay Pipe	276.60
		For 3' Lengths, Add	59.64
		For 2' Lengths, Add	79.52
		For Standard Strength, Deduct	-19.88
		For >1,000, Deduct	-13.83
33 42 11 00-0377	LF	30" Plain Joint, Extra Strength, Vitrified Clay Pipe	342.35
		For 3' Lengths, Add	74.36
		For 2' Lengths, Add	99.15
		For Standard Strength, Deduct	-24.79
		For >1,000, Deduct	-17.12

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0378 LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	414.14	
For 3' Lengths, Add	89.83	
For 2' Lengths, Add	119.77	
For Standard Strength, Deduct	-29.94	
For >1,000, Deduct	-20.71	
33 42 11 00-0379 Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0366)		
Note: ASTM C425.		
33 42 11 00-0380 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	34.46	
For 3' Lengths, Add	2.61	
For 2' Lengths, Add	3.48	
For Standard Strength, Deduct	-0.87	
For >1,000, Deduct	-1.72	
33 42 11 00-0381 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	43.19	
For 3' Lengths, Add	4.26	
For 2' Lengths, Add	5.68	
For Standard Strength, Deduct	-1.42	
For >1,000, Deduct	-2.16	
33 42 11 00-0382 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	52.25	
For 3' Lengths, Add	6.01	
For 2' Lengths, Add	8.01	
For Standard Strength, Deduct	-2.00	
For >1,000, Deduct	-2.61	
33 42 11 00-0383 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	66.45	
For 3' Lengths, Add	9.87	
For 2' Lengths, Add	13.16	
For Standard Strength, Deduct	-3.29	
For >1,000, Deduct	-3.32	
33 42 11 00-0384 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	79.81	
For 3' Lengths, Add	12.96	
For 2' Lengths, Add	17.28	
For Standard Strength, Deduct	-4.32	
For >1,000, Deduct	-3.99	
33 42 11 00-0385 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	119.51	
For 3' Lengths, Add	23.63	
For 2' Lengths, Add	31.51	
For Standard Strength, Deduct	-7.88	
For >1,000, Deduct	-5.98	
33 42 11 00-0386 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	166.16	
For 3' Lengths, Add	34.61	
For 2' Lengths, Add	46.14	
For Standard Strength, Deduct	-11.54	
For >1,000, Deduct	-8.31	
33 42 11 00-0387 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	239.55	
For 3' Lengths, Add	52.64	
For 2' Lengths, Add	70.19	
For Standard Strength, Deduct	-17.55	
For >1,000, Deduct	-11.98	
33 42 11 00-0388 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	313.41	
For 3' Lengths, Add	70.68	
For 2' Lengths, Add	94.24	
For Standard Strength, Deduct	-23.56	
For >1,000, Deduct	-15.67	
33 42 11 00-0389 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	504.33	
For 3' Lengths, Add	122.96	
For 2' Lengths, Add	163.94	
For Standard Strength, Deduct	-40.99	
For >1,000, Deduct	-25.22	
33 42 11 00-0390 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	718.47	
For 3' Lengths, Add	181.13	
For 2' Lengths, Add	241.50	
For Standard Strength, Deduct	-60.38	
For >1,000, Deduct	-35.92	
33 42 11 00-0391 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0365)		
33 42 11 00-0392 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0391)		
33 42 11 00-0393 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0392)		
33 42 11 00-0394 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	103.58	
33 42 11 00-0395 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	140.47	
33 42 11 00-0396 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	202.02	
33 42 11 00-0397 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	279.24	
33 42 11 00-0398 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	370.14	
33 42 11 00-0399 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	892.94	
33 42 11 00-0400 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,260.70	
33 42 11 00-0401 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,969.94	
33 42 11 00-0402 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,272.85	
33 42 11 00-0403 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,638.03	
33 42 11 00-0404 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,964.81	
33 42 11 00-0405 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0392)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0406	EA	4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	116.82	
33 42 11 00-0407	EA	6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	167.16	
33 42 11 00-0408	EA	8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	227.51	
33 42 11 00-0409	EA	10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	306.55	
33 42 11 00-0410	EA	12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	390.17	
33 42 11 00-0411	EA	15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,001.09	
33 42 11 00-0412	EA	18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,458.31	
33 42 11 00-0413	EA	21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,496.53	
33 42 11 00-0414	EA	24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,911.87	
33 42 11 00-0415	EA	30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	3,240.56	
33 42 11 00-0416	EA	36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	4,820.65	
33 42 11 00-0417		1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0391)		
33 42 11 00-0418		Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0417)		
33 42 11 00-0419	EA	4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	120.59	
33 42 11 00-0420	EA	6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	160.96	
33 42 11 00-0421	EA	8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	225.99	
33 42 11 00-0422	EA	10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	305.23	
33 42 11 00-0423	EA	12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	399.44	
33 42 11 00-0424	EA	15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	925.52	
33 42 11 00-0425	EA	18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,301.34	
33 42 11 00-0426	EA	21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,021.19	
33 42 11 00-0427	EA	24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,335.10	
33 42 11 00-0428	EA	30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,715.66	
33 42 11 00-0429	EA	36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	4,051.08	
33 42 11 00-0430		Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0417)		
33 42 11 00-0431	EA	4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	137.23	
33 42 11 00-0432	EA	6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	191.74	
33 42 11 00-0433	EA	8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	256.27	
33 42 11 00-0434	EA	10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	337.74	
33 42 11 00-0435	EA	12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	425.31	
33 42 11 00-0436	EA	15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	1,040.19	
33 42 11 00-0437	EA	18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	1,507.09	
33 42 11 00-0438	EA	21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,933.84	
33 42 11 00-0439	EA	24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,986.56	
33 42 11 00-0440	EA	30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	3,333.70	
33 42 11 00-0441	EA	36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	4,924.20	
33 42 11 00-0442		Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0391)		
33 42 11 00-0443		Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0442)		
33 42 11 00-0444	EA	4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	131.76	
33 42 11 00-0445	EA	6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	172.62	
33 42 11 00-0446	EA	8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	236.02	
33 42 11 00-0447	EA	10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	313.90	
33 42 11 00-0448	EA	12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	398.15	
33 42 11 00-0449	EA	15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	932.54	
33 42 11 00-0450	EA	18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,306.79	
33 42 11 00-0451	EA	21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,890.83	
33 42 11 00-0452	EA	24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,634.56	
33 42 11 00-0453	EA	30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,784.05	
33 42 11 00-0454	EA	36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	4,013.25	
33 42 11 00-0455		Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0442)		
33 42 11 00-0456	EA	4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	161.12	
33 42 11 00-0457	EA	6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	222.17	
33 42 11 00-0458	EA	8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	293.87	
33 42 11 00-0459	EA	10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	382.25	
33 42 11 00-0460	EA	12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	478.26	
33 42 11 00-0461	EA	15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,134.53	
33 42 11 00-0462	EA	18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,637.85	
33 42 11 00-0463	EA	21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,435.54	
33 42 11 00-0464	EA	24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	3,229.23	
33 42 11 00-0465	EA	30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	3,732.93	
33 42 11 00-0466	EA	36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee.....	5,309.62	
33 42 11 00-0467		Vitrified Clay Couplings (33 42 11 00-0365)		
33 42 11 00-0468		Vitrified Clay To Cast Iron Or Plastic Pipe Couplings (33 42 11 00-0467)		
Note: Stainless steel tightening band at each end (Fernco #1002)				
33 42 11 00-0469	EA	4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	37.79	
33 42 11 00-0470	EA	4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	37.48	
33 42 11 00-0471	EA	5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	49.96	
33 42 11 00-0472	EA	5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	47.48	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0473 EA 6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	60.17	
33 42 11 00-0474 EA 6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	62.33	
33 42 11 00-0475 EA 6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	57.56	
33 42 11 00-0476 EA 8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	80.51	
33 42 11 00-0477 EA 8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	75.06	
33 42 11 00-0478 EA 10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	103.53	
33 42 11 00-0479 EA 10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	95.11	
33 42 11 00-0480 EA 12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	127.21	
33 42 11 00-0481 EA 12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	107.89	
33 42 11 00-0482 EA 15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	209.46	
33 42 11 00-0483 EA 15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	163.41	
33 42 11 00-0484 Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings (33 42 11 00-0467)		
Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0485 EA 4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	79.51	
33 42 11 00-0486 EA 6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	105.71	
33 42 11 00-0487 EA 6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	111.71	
33 42 11 00-0488 EA 8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	117.12	
33 42 11 00-0489 EA 10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	144.36	
33 42 11 00-0490 EA 12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	167.38	
33 42 11 00-0491 Vitrified Clay To Plastic Pipe Non-Shear Couplings (33 42 11 00-0467)		
Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0492 EA 4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	81.52	
33 42 11 00-0493 EA 6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	107.72	
33 42 11 00-0494 EA 6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling	98.78	
33 42 11 00-0495 EA 8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling	129.14	
33 42 11 00-0496 EA 10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling	186.46	
33 42 11 00-0497 EA 12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling	210.61	
33 42 11 00-0498 Corrugated Metal Piping (33 42 11)		
33 42 11 00-0499 Galvanized Corrugated Steel Piping (33 42 11 00-0498)		
33 42 11 00-0500 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0501 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0500)		
33 42 11 00-0502 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	44.51	11.44
For Bituminous Coated Pipe, Add	5.02	
For Bituminous Coated And 25% Paved, Add	10.27	
For Smooth-Flo, Add	18.33	
33 42 11 00-0503 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	50.73	11.99
For Bituminous Coated Pipe, Add	6.32	
For Bituminous Coated And 25% Paved, Add	12.92	
For Smooth-Flo, Add	23.08	
33 42 11 00-0504 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	57.14	13.08
For Bituminous Coated Pipe, Add	7.65	
For Bituminous Coated And 25% Paved, Add	15.66	
For Smooth-Flo, Add	27.96	
33 42 11 00-0505 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	65.36	14.17
For Bituminous Coated Pipe, Add	9.15	
For Bituminous Coated And 25% Paved, Add	18.73	
For Smooth-Flo, Add	33.44	
33 42 11 00-0506 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	72.46	15.26
For Bituminous Coated Pipe, Add	10.30	
For Bituminous Coated And 25% Paved, Add	21.07	
For Smooth-Flo, Add	37.63	
33 42 11 00-0507 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	95.48	19.62
For Bituminous Coated Pipe, Add	13.37	
For Bituminous Coated And 25% Paved, Add	27.34	
For Smooth-Flo, Add	48.83	
33 42 11 00-0508 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	124.50	25.85
For Bituminous Coated Pipe, Add	16.86	
For Bituminous Coated And 25% Paved, Add	34.49	
For Smooth-Flo, Add	61.59	
33 42 11 00-0509 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	142.25	30.55
For Bituminous Coated Pipe, Add	19.95	
For Bituminous Coated And 25% Paved, Add	40.81	
For Smooth-Flo, Add	72.88	
33 42 11 00-0510 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	159.82	35.25
For Bituminous Coated Pipe, Add	22.35	
For Bituminous Coated And 25% Paved, Add	45.71	
For Smooth-Flo, Add	81.63	
33 42 11 00-0511 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0500)		
33 42 11 00-0512 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	48.99	11.44
For Bituminous Coated Pipe, Add	5.09	
For Bituminous Coated And 25% Paved, Add	11.80	
For Smooth-Flo, Add	23.86	



Utilities			33	CS
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 42 11 00-0513	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	56.25	11.99
		For Bituminous Coated Pipe, Add	6.39	
		For Bituminous Coated And 25% Paved, Add	14.80	
		For Smooth-Flo, Add	29.92	
33 42 11 00-0514	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	63.81	13.08
		For Bituminous Coated Pipe, Add	7.74	
		For Bituminous Coated And 25% Paved, Add	17.92	
		For Smooth-Flo, Add	36.23	
33 42 11 00-0515	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	73.07	14.17
		For Bituminous Coated Pipe, Add	9.20	
		For Bituminous Coated And 25% Paved, Add	21.31	
		For Smooth-Flo, Add	43.08	
33 42 11 00-0516	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	81.43	15.26
		For Bituminous Coated Pipe, Add	10.41	
		For Bituminous Coated And 25% Paved, Add	24.12	
		For Smooth-Flo, Add	48.76	
33 42 11 00-0517	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	106.42	19.62
		For Bituminous Coated Pipe, Add	13.37	
		For Bituminous Coated And 25% Paved, Add	30.97	
		For Smooth-Flo, Add	62.61	
33 42 11 00-0518	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	137.79	25.85
		For Bituminous Coated Pipe, Add	16.76	
		For Bituminous Coated And 25% Paved, Add	38.83	
		For Smooth-Flo, Add	78.48	
33 42 11 00-0519	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	157.47	30.55
		For Bituminous Coated Pipe, Add	19.73	
		For Bituminous Coated And 25% Paved, Add	45.70	
		For Smooth-Flo, Add	92.39	
33 42 11 00-0520	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	177.23	35.25
		For Bituminous Coated Pipe, Add	22.17	
		For Bituminous Coated And 25% Paved, Add	51.36	
		For Smooth-Flo, Add	103.82	
33 42 11 00-0521	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	212.38	39.95
		For Bituminous Coated Pipe, Add	27.26	
		For Bituminous Coated And 25% Paved, Add	63.17	
		For Smooth-Flo, Add	127.68	
33 42 11 00-0522		12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
		^{42 11 00-0500)}		
33 42 11 00-0523	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	77.62	13.08
		For Bituminous Coated Pipe, Add	8.86	
		For Bituminous Coated And 25% Paved, Add	16.00	
		For Smooth-Flo, Add	30.74	
33 42 11 00-0524	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	89.13	14.17
		For Bituminous Coated Pipe, Add	10.47	
		For Bituminous Coated And 25% Paved, Add	18.91	
		For Smooth-Flo, Add	36.34	
33 42 11 00-0525	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	99.72	14.17
		For Bituminous Coated Pipe, Add	11.87	
		For Bituminous Coated And 25% Paved, Add	21.44	
		For Smooth-Flo, Add	41.20	
33 42 11 00-0526	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	129.04	19.62
		For Bituminous Coated Pipe, Add	15.10	
		For Bituminous Coated And 25% Paved, Add	27.26	
		For Smooth-Flo, Add	52.39	
33 42 11 00-0527	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	164.63	25.85
		For Bituminous Coated Pipe, Add	18.67	
		For Bituminous Coated And 25% Paved, Add	33.71	
		For Smooth-Flo, Add	64.78	
33 42 11 00-0528	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	188.47	30.55
		For Bituminous Coated Pipe, Add	21.87	
		For Bituminous Coated And 25% Paved, Add	39.50	
		For Smooth-Flo, Add	75.91	
33 42 11 00-0529	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	212.77	35.25
		For Bituminous Coated Pipe, Add	24.70	
		For Bituminous Coated And 25% Paved, Add	44.60	
		For Smooth-Flo, Add	85.72	
33 42 11 00-0530	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	251.62	39.95
		For Bituminous Coated Pipe, Add	29.62	
		For Bituminous Coated And 25% Paved, Add	53.48	
		For Smooth-Flo, Add	102.78	
33 42 11 00-0531	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	275.14	42.30
		For Bituminous Coated Pipe, Add	32.43	
		For Bituminous Coated And 25% Paved, Add	58.57	
		For Smooth-Flo, Add	112.56	
33 42 11 00-0532	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	333.49	51.70
		For Bituminous Coated Pipe, Add	39.48	
		For Bituminous Coated And 25% Paved, Add	71.30	
		For Smooth-Flo, Add	137.03	
33 42 11 00-0533		10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
		^{42 11 00-0500)}		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0534 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	189.75	25.85
For Bituminous Coated Pipe, Add	23.75	
For Bituminous Coated And 25% Paved, Add	39.67	
For Smooth-Flo, Add	56.60	
33 42 11 00-0535 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	217.86	30.55
For Bituminous Coated Pipe, Add	27.82	
For Bituminous Coated And 25% Paved, Add	46.47	
For Smooth-Flo, Add	66.30	
33 42 11 00-0536 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	246.12	35.25
For Bituminous Coated Pipe, Add	31.44	
For Bituminous Coated And 25% Paved, Add	52.52	
For Smooth-Flo, Add	74.94	
33 42 11 00-0537 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	288.98	39.95
For Bituminous Coated Pipe, Add	37.24	
For Bituminous Coated And 25% Paved, Add	62.20	
For Smooth-Flo, Add	88.75	
33 42 11 00-0538 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	316.72	42.30
For Bituminous Coated Pipe, Add	40.90	
For Bituminous Coated And 25% Paved, Add	68.31	
For Smooth-Flo, Add	97.48	
33 42 11 00-0539 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	379.19	51.70
For Bituminous Coated Pipe, Add	48.92	
For Bituminous Coated And 25% Paved, Add	81.72	
For Smooth-Flo, Add	116.60	
33 42 11 00-0540 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	447.99	75.20
For Bituminous Coated Pipe, Add	52.53	
For Bituminous Coated And 25% Paved, Add	87.74	
For Smooth-Flo, Add	125.20	
33 42 11 00-0541 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0542 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)		
33 42 11 00-0543 LF 36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	147.54	25.85
For Bituminous Coated Pipe, Add	18.54	
For Bituminous Coated And 25% Paved, Add	42.09	
For Smooth-Flo, Add	83.81	
33 42 11 00-0544 LF 42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	168.67	30.55
For Bituminous Coated Pipe, Add	21.77	
For Bituminous Coated And 25% Paved, Add	49.42	
For Smooth-Flo, Add	98.41	
33 42 11 00-0545 LF 48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	189.58	35.25
For Bituminous Coated Pipe, Add	24.42	
For Bituminous Coated And 25% Paved, Add	55.43	
For Smooth-Flo, Add	110.38	
33 42 11 00-0546 LF 54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	226.55	39.95
For Bituminous Coated Pipe, Add	29.83	
For Bituminous Coated And 25% Paved, Add	67.71	
For Smooth-Flo, Add	134.82	
33 42 11 00-0547 LF 60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	246.84	42.30
For Bituminous Coated Pipe, Add	32.50	
For Bituminous Coated And 25% Paved, Add	73.77	
For Smooth-Flo, Add	146.88	
33 42 11 00-0548 LF 66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	309.93	51.70
For Bituminous Coated Pipe, Add	41.74	
For Bituminous Coated And 25% Paved, Add	94.75	
For Smooth-Flo, Add	188.66	
33 42 11 00-0549 LF 72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	372.01	75.20
For Bituminous Coated Pipe, Add	44.49	
For Bituminous Coated And 25% Paved, Add	101.00	
For Smooth-Flo, Add	201.10	
33 42 11 00-0550 LF 78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	400.77	82.25
For Bituminous Coated Pipe, Add	47.25	
For Bituminous Coated And 25% Paved, Add	107.27	
For Smooth-Flo, Add	213.59	
33 42 11 00-0551 LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	426.32	88.13
For Bituminous Coated Pipe, Add	50.02	
For Bituminous Coated And 25% Paved, Add	113.54	
For Smooth-Flo, Add	226.07	
33 42 11 00-0552 LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	451.94	93.99
For Bituminous Coated Pipe, Add	52.79	
For Bituminous Coated And 25% Paved, Add	119.83	
For Smooth-Flo, Add	238.60	
33 42 11 00-0553 LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	478.30	99.87
For Bituminous Coated Pipe, Add	55.54	
For Bituminous Coated And 25% Paved, Add	126.08	
For Smooth-Flo, Add	251.04	
33 42 11 00-0554 LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	508.06	105.75
For Bituminous Coated Pipe, Add	58.32	
For Bituminous Coated And 25% Paved, Add	132.39	
For Smooth-Flo, Add	263.62	

33 42 11 00-0555 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 42 11 00-0556	LF 54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	250.05		39.95
	For Bituminous Coated Pipe, Add	34.53		
	For Bituminous Coated And 25% Paved, Add	67.67		
	For Smooth-Flo, Add	136.73		
33 42 11 00-0557	LF 60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	272.85		42.30
	For Bituminous Coated Pipe, Add	37.70		
	For Bituminous Coated And 25% Paved, Add	73.89		
	For Smooth-Flo, Add	149.28		
33 42 11 00-0558	LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	338.54		51.70
	For Bituminous Coated Pipe, Add	47.46		
	For Bituminous Coated And 25% Paved, Add	93.03		
	For Smooth-Flo, Add	187.95		
33 42 11 00-0559	LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	403.17		75.20
	For Bituminous Coated Pipe, Add	50.72		
	For Bituminous Coated And 25% Paved, Add	99.42		
	For Smooth-Flo, Add	200.87		
33 42 11 00-0560	LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	434.44		82.25
	For Bituminous Coated Pipe, Add	53.99		
	For Bituminous Coated And 25% Paved, Add	105.82		
	For Smooth-Flo, Add	213.79		
33 42 11 00-0561	LF 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	462.64		88.13
	For Bituminous Coated Pipe, Add	57.28		
	For Bituminous Coated And 25% Paved, Add	112.27		
	For Smooth-Flo, Add	226.83		
33 42 11 00-0562	LF 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	490.71		93.99
	For Bituminous Coated Pipe, Add	60.54		
	For Bituminous Coated And 25% Paved, Add	118.66		
	For Smooth-Flo, Add	239.75		
33 42 11 00-0563	LF 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	519.62		99.87
	For Bituminous Coated Pipe, Add	63.80		
	For Bituminous Coated And 25% Paved, Add	125.06		
	For Smooth-Flo, Add	252.66		
33 42 11 00-0564	LF 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	551.89		105.75
	For Bituminous Coated Pipe, Add	67.09		
	For Bituminous Coated And 25% Paved, Add	131.49		
	For Smooth-Flo, Add	265.67		
33 42 11 00-0565	LF 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	586.85		117.50
	For Bituminous Coated Pipe, Add	70.37		
	For Bituminous Coated And 25% Paved, Add	137.93		
	For Smooth-Flo, Add	278.67		
33 42 11 00-0566	LF 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	621.03		129.24
	For Bituminous Coated Pipe, Add	73.59		
	For Bituminous Coated And 25% Paved, Add	144.24		
	For Smooth-Flo, Add	291.42		
33 42 11 00-0567	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)			
33 42 11 00-0568	LF 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	330.53		42.30
	For Bituminous Coated Pipe, Add	49.23		
	For Bituminous Coated And 25% Paved, Add	93.79		
	For Smooth-Flo, Add	152.87		
33 42 11 00-0569	LF 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	402.43		51.70
	For Bituminous Coated Pipe, Add	60.24		
	For Bituminous Coated And 25% Paved, Add	114.76		
	For Smooth-Flo, Add	187.05		
33 42 11 00-0570	LF 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	472.64		75.20
	For Bituminous Coated Pipe, Add	64.62		
	For Bituminous Coated And 25% Paved, Add	123.10		
	For Smooth-Flo, Add	200.64		
33 42 11 00-0571	LF 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	509.53		82.25
	For Bituminous Coated Pipe, Add	69.01		
	For Bituminous Coated And 25% Paved, Add	131.46		
	For Smooth-Flo, Add	214.26		
33 42 11 00-0572	LF 84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	543.31		88.13
	For Bituminous Coated Pipe, Add	73.41		
	For Bituminous Coated And 25% Paved, Add	139.85		
	For Smooth-Flo, Add	227.95		
33 42 11 00-0573	LF 90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	577.01		93.99
	For Bituminous Coated Pipe, Add	77.80		
	For Bituminous Coated And 25% Paved, Add	148.21		
	For Smooth-Flo, Add	241.58		
33 42 11 00-0574	LF 96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	611.60		99.87
	For Bituminous Coated Pipe, Add	82.20		
	For Bituminous Coated And 25% Paved, Add	156.59		
	For Smooth-Flo, Add	255.23		
33 42 11 00-0575	LF 102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	649.49		105.75
	For Bituminous Coated Pipe, Add	86.61		
	For Bituminous Coated And 25% Paved, Add	164.99		
	For Smooth-Flo, Add	268.92		
33 42 11 00-0576	LF 108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	689.98		117.50
	For Bituminous Coated Pipe, Add	91.00		
	For Bituminous Coated And 25% Paved, Add	173.35		
	For Smooth-Flo, Add	282.54		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0577 LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	729.83	129.24
For Bituminous Coated Pipe, Add	95.35	
For Bituminous Coated And 25% Paved, Add	181.65	
For Smooth-Flo, Add	296.07	
33 42 11 00-0578 LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	768.48	141.00
For Bituminous Coated Pipe, Add	99.76	
For Bituminous Coated And 25% Paved, Add	190.05	
For Smooth-Flo, Add	309.76	
33 42 11 00-0579 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)		
33 42 11 00-0580 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	537.41	75.20
For Bituminous Coated Pipe, Add	77.57	
For Bituminous Coated And 25% Paved, Add	147.39	
For Smooth-Flo, Add	197.03	
33 42 11 00-0581 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	579.62	82.25
For Bituminous Coated Pipe, Add	83.02	
For Bituminous Coated And 25% Paved, Add	157.75	
For Smooth-Flo, Add	210.88	
33 42 11 00-0582 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	618.71	88.13
For Bituminous Coated Pipe, Add	88.49	
For Bituminous Coated And 25% Paved, Add	168.14	
For Smooth-Flo, Add	224.77	
33 42 11 00-0583 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	657.73	93.99
For Bituminous Coated Pipe, Add	93.95	
For Bituminous Coated And 25% Paved, Add	178.50	
For Smooth-Flo, Add	238.62	
33 42 11 00-0584 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	697.63	99.87
For Bituminous Coated Pipe, Add	99.41	
For Bituminous Coated And 25% Paved, Add	188.87	
For Smooth-Flo, Add	252.49	
33 42 11 00-0585 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	740.84	105.75
For Bituminous Coated Pipe, Add	104.88	
For Bituminous Coated And 25% Paved, Add	199.27	
For Smooth-Flo, Add	266.39	
33 42 11 00-0586 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	786.65	117.50
For Bituminous Coated Pipe, Add	110.33	
For Bituminous Coated And 25% Paved, Add	209.63	
For Smooth-Flo, Add	280.24	
33 42 11 00-0587 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	831.76	129.24
For Bituminous Coated Pipe, Add	115.74	
For Bituminous Coated And 25% Paved, Add	219.90	
For Smooth-Flo, Add	293.97	
33 42 11 00-0588 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	875.77	141.00
For Bituminous Coated Pipe, Add	121.22	
For Bituminous Coated And 25% Paved, Add	230.32	
For Smooth-Flo, Add	307.90	
33 42 11 00-0589 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	921.85	152.75
For Bituminous Coated Pipe, Add	126.65	
For Bituminous Coated And 25% Paved, Add	240.64	
For Smooth-Flo, Add	321.69	
33 42 11 00-0590 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	970.98	164.50
For Bituminous Coated Pipe, Add	132.12	
For Bituminous Coated And 25% Paved, Add	251.03	
For Smooth-Flo, Add	335.59	
33 42 11 00-0591 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	1,023.73	176.25
For Bituminous Coated Pipe, Add	137.60	
For Bituminous Coated And 25% Paved, Add	261.45	
For Smooth-Flo, Add	349.51	
33 42 11 00-0592 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0593 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0592)		
33 42 11 00-0594 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	190.25	35.25
For Bituminous Coated Pipe, Add	30.69	
For Bituminous Coated And 25% Paved, Add	69.98	
For Smooth-Flo, Add	111.11	
33 42 11 00-0595 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	227.85	39.95
For Bituminous Coated Pipe, Add	37.61	
For Bituminous Coated And 25% Paved, Add	85.75	
For Smooth-Flo, Add	136.15	
33 42 11 00-0596 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	247.99	42.30
For Bituminous Coated Pipe, Add	40.91	
For Bituminous Coated And 25% Paved, Add	93.27	
For Smooth-Flo, Add	148.09	
33 42 11 00-0597 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	307.22	51.70
For Bituminous Coated Pipe, Add	51.50	
For Bituminous Coated And 25% Paved, Add	117.41	
For Smooth-Flo, Add	186.42	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0598	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	368.99	75.20
		For Bituminous Coated Pipe, Add	54.86	
		For Bituminous Coated And 25% Paved, Add	125.08	
		For Smooth-Flo, Add	198.59	
33 42 11 00-0599	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	397.33	82.25
		For Bituminous Coated Pipe, Add	58.21	
		For Bituminous Coated And 25% Paved, Add	132.71	
		For Smooth-Flo, Add	210.71	
33 42 11 00-0600	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	422.41	88.13
		For Bituminous Coated Pipe, Add	61.54	
		For Bituminous Coated And 25% Paved, Add	140.32	
		For Smooth-Flo, Add	222.78	
33 42 11 00-0601	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	447.46	93.99
		For Bituminous Coated Pipe, Add	64.87	
		For Bituminous Coated And 25% Paved, Add	147.89	
		For Smooth-Flo, Add	234.81	
33 42 11 00-0602	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	473.56	99.87
		For Bituminous Coated Pipe, Add	68.24	
		For Bituminous Coated And 25% Paved, Add	155.59	
		For Smooth-Flo, Add	247.03	
33 42 11 00-0603	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	503.22	105.75
		For Bituminous Coated Pipe, Add	71.69	
		For Bituminous Coated And 25% Paved, Add	163.46	
		For Smooth-Flo, Add	259.53	
33 42 11 00-0604		14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
		Piping (33 42 11 00-0592)		
33 42 11 00-0605	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	257.25	39.95
		For Bituminous Coated Pipe, Add	35.97	
		For Bituminous Coated And 25% Paved, Add	84.52	
		For Smooth-Flo, Add	153.04	
33 42 11 00-0606	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	280.66	42.30
		For Bituminous Coated Pipe, Add	39.26	
		For Bituminous Coated And 25% Paved, Add	92.26	
		For Smooth-Flo, Add	167.05	
33 42 11 00-0607	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	342.87	51.70
		For Bituminous Coated Pipe, Add	48.33	
		For Bituminous Coated And 25% Paved, Add	113.57	
		For Smooth-Flo, Add	205.64	
33 42 11 00-0608	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	407.50	75.20
		For Bituminous Coated Pipe, Add	51.59	
		For Bituminous Coated And 25% Paved, Add	121.24	
		For Smooth-Flo, Add	219.52	
33 42 11 00-0609	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	439.33	82.25
		For Bituminous Coated Pipe, Add	54.97	
		For Bituminous Coated And 25% Paved, Add	129.17	
		For Smooth-Flo, Add	233.88	
33 42 11 00-0610	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	467.70	88.13
		For Bituminous Coated Pipe, Add	58.29	
		For Bituminous Coated And 25% Paved, Add	136.99	
		For Smooth-Flo, Add	248.03	
33 42 11 00-0611	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	494.36	93.99
		For Bituminous Coated Pipe, Add	61.27	
		For Bituminous Coated And 25% Paved, Add	143.99	
		For Smooth-Flo, Add	260.71	
33 42 11 00-0612	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	525.20	99.87
		For Bituminous Coated Pipe, Add	64.92	
		For Bituminous Coated And 25% Paved, Add	152.56	
		For Smooth-Flo, Add	276.23	
33 42 11 00-0613	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	557.62	105.75
		For Bituminous Coated Pipe, Add	68.23	
		For Bituminous Coated And 25% Paved, Add	160.35	
		For Smooth-Flo, Add	290.34	
33 42 11 00-0614	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	592.59	117.50
		For Bituminous Coated Pipe, Add	71.52	
		For Bituminous Coated And 25% Paved, Add	168.07	
		For Smooth-Flo, Add	304.31	
33 42 11 00-0615	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	627.49	129.24
		For Bituminous Coated Pipe, Add	74.88	
		For Bituminous Coated And 25% Paved, Add	175.98	
		For Smooth-Flo, Add	318.63	
33 42 11 00-0616		12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
		Piping (33 42 11 00-0592)		
33 42 11 00-0617	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	341.84	42.30
		For Bituminous Coated Pipe, Add	51.50	
		For Bituminous Coated And 25% Paved, Add	97.84	
		For Smooth-Flo, Add	176.63	
33 42 11 00-0618	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	410.25	51.70
		For Bituminous Coated Pipe, Add	61.80	
		For Bituminous Coated And 25% Paved, Add	117.43	
		For Smooth-Flo, Add	211.99	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0619 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	481.29	75.20
For Bituminous Coated Pipe, Add	66.35	
For Bituminous Coated And 25% Paved, Add	126.06	
For Smooth-Flo, Add	227.57	
33 42 11 00-0620 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	518.80	82.25
For Bituminous Coated Pipe, Add	70.86	
For Bituminous Coated And 25% Paved, Add	134.63	
For Smooth-Flo, Add	243.05	
33 42 11 00-0621 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	552.90	88.13
For Bituminous Coated Pipe, Add	75.33	
For Bituminous Coated And 25% Paved, Add	143.13	
For Smooth-Flo, Add	258.39	
33 42 11 00-0622 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	587.33	93.99
For Bituminous Coated Pipe, Add	79.87	
For Bituminous Coated And 25% Paved, Add	151.75	
For Smooth-Flo, Add	273.94	
33 42 11 00-0623 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	622.44	99.87
For Bituminous Coated Pipe, Add	84.37	
For Bituminous Coated And 25% Paved, Add	160.30	
For Smooth-Flo, Add	289.38	
33 42 11 00-0624 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	660.75	105.75
For Bituminous Coated Pipe, Add	88.86	
For Bituminous Coated And 25% Paved, Add	168.83	
For Smooth-Flo, Add	304.79	
33 42 11 00-0625 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	701.97	117.50
For Bituminous Coated Pipe, Add	93.39	
For Bituminous Coated And 25% Paved, Add	177.45	
For Smooth-Flo, Add	320.34	
33 42 11 00-0626 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	742.55	129.24
For Bituminous Coated Pipe, Add	97.90	
For Bituminous Coated And 25% Paved, Add	186.00	
For Smooth-Flo, Add	335.78	
33 42 11 00-0627 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	781.66	141.00
For Bituminous Coated Pipe, Add	102.40	
For Bituminous Coated And 25% Paved, Add	194.56	
For Smooth-Flo, Add	351.23	
33 42 11 00-0628 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0592)		
33 42 11 00-0629 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	551.95	75.20
For Bituminous Coated Pipe, Add	80.48	
For Bituminous Coated And 25% Paved, Add	152.91	
For Smooth-Flo, Add	240.23	
33 42 11 00-0630 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	596.03	82.25
For Bituminous Coated Pipe, Add	86.31	
For Bituminous Coated And 25% Paved, Add	163.98	
For Smooth-Flo, Add	257.62	
33 42 11 00-0631 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	636.28	88.13
For Bituminous Coated Pipe, Add	92.01	
For Bituminous Coated And 25% Paved, Add	174.82	
For Smooth-Flo, Add	274.64	
33 42 11 00-0632 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	676.28	93.99
For Bituminous Coated Pipe, Add	97.66	
For Bituminous Coated And 25% Paved, Add	185.55	
For Smooth-Flo, Add	291.50	
33 42 11 00-0633 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	717.44	99.87
For Bituminous Coated Pipe, Add	103.37	
For Bituminous Coated And 25% Paved, Add	196.40	
For Smooth-Flo, Add	308.55	
33 42 11 00-0634 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	761.58	105.75
For Bituminous Coated Pipe, Add	109.03	
For Bituminous Coated And 25% Paved, Add	207.15	
For Smooth-Flo, Add	325.44	
33 42 11 00-0635 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	808.64	117.50
For Bituminous Coated Pipe, Add	114.73	
For Bituminous Coated And 25% Paved, Add	217.98	
For Smooth-Flo, Add	342.46	
33 42 11 00-0636 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	855.16	129.24
For Bituminous Coated Pipe, Add	120.42	
For Bituminous Coated And 25% Paved, Add	228.79	
For Smooth-Flo, Add	359.45	
33 42 11 00-0637 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	900.06	141.00
For Bituminous Coated Pipe, Add	126.08	
For Bituminous Coated And 25% Paved, Add	239.55	
For Smooth-Flo, Add	376.34	
33 42 11 00-0638 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	956.35	152.75
For Bituminous Coated Pipe, Add	133.55	
For Bituminous Coated And 25% Paved, Add	253.75	
For Smooth-Flo, Add	398.65	
33 42 11 00-0639 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	1,008.92	164.50
For Bituminous Coated Pipe, Add	139.71	
For Bituminous Coated And 25% Paved, Add	265.45	
For Smooth-Flo, Add	417.03	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0640	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	1,066.25	176.25
		For Bituminous Coated Pipe, Add	146.11	
		For Bituminous Coated And 25% Paved, Add	277.61	
		For Smooth-Flo, Add	436.13	
33 42 11 00-0641 Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0499)				
33 42 11 00-0642 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)				
33 42 11 00-0643	LF	18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	66.10	13.08
		For Bituminous Coated Pipe, Add	9.46	
33 42 11 00-0644	LF	21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	75.89	14.17
		For Bituminous Coated Pipe, Add	11.27	
33 42 11 00-0645	LF	24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	84.81	15.26
		For Bituminous Coated Pipe, Add	12.80	
33 42 11 00-0646	LF	30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	111.01	19.62
		For Bituminous Coated Pipe, Add	16.49	
33 42 11 00-0647	LF	36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	143.52	25.85
		For Bituminous Coated Pipe, Add	20.66	
33 42 11 00-0648	LF	42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	164.40	30.55
		For Bituminous Coated Pipe, Add	24.37	
33 42 11 00-0649	LF	48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	185.20	35.25
		For Bituminous Coated Pipe, Add	27.43	
33 42 11 00-0650	LF	54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	221.60	39.95
		For Bituminous Coated Pipe, Add	33.60	
33 42 11 00-0651	LF	60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	241.79	42.30
		For Bituminous Coated Pipe, Add	36.68	
33 42 11 00-0652 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)				
33 42 11 00-0653	LF	18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	72.88	13.08
		For Bituminous Coated Pipe, Add	10.94	
33 42 11 00-0654	LF	21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	83.81	14.17
		For Bituminous Coated Pipe, Add	13.00	
33 42 11 00-0655	LF	24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	93.83	15.26
		For Bituminous Coated Pipe, Add	14.77	
33 42 11 00-0656	LF	30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	122.21	19.62
		For Bituminous Coated Pipe, Add	18.94	
33 42 11 00-0657	LF	36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	157.02	25.85
		For Bituminous Coated Pipe, Add	23.61	
33 42 11 00-0658	LF	42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	180.19	30.55
		For Bituminous Coated Pipe, Add	27.81	
33 42 11 00-0659	LF	48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	203.23	35.25
		For Bituminous Coated Pipe, Add	31.36	
33 42 11 00-0660	LF	54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	241.87	39.95
		For Bituminous Coated Pipe, Add	37.99	
33 42 11 00-0661	LF	60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	264.35	42.30
		For Bituminous Coated Pipe, Add	41.58	
33 42 11 00-0662	LF	66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	324.84	51.70
		For Bituminous Coated Pipe, Add	51.65	
33 42 11 00-0663	LF	72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	388.48	75.20
		For Bituminous Coated Pipe, Add	55.19	
33 42 11 00-0664	LF	78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	419.01	82.25
		For Bituminous Coated Pipe, Add	58.79	
33 42 11 00-0665 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)				
33 42 11 00-0666	LF	30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	144.93	19.62
		For Bituminous Coated Pipe, Add	19.79	
33 42 11 00-0667	LF	36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	184.17	25.85
		For Bituminous Coated Pipe, Add	24.45	
33 42 11 00-0668	LF	42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	211.97	30.55
		For Bituminous Coated Pipe, Add	28.76	
33 42 11 00-0669	LF	48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	239.50	35.25
		For Bituminous Coated Pipe, Add	32.51	
33 42 11 00-0670	LF	54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	282.73	39.95
		For Bituminous Coated Pipe, Add	38.81	
33 42 11 00-0671	LF	60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	309.79	42.30
		For Bituminous Coated Pipe, Add	42.61	
33 42 11 00-0672	LF	66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	374.71	51.70
		For Bituminous Coated Pipe, Add	51.69	
33 42 11 00-0673	LF	72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	442.83	75.20
		For Bituminous Coated Pipe, Add	55.43	
33 42 11 00-0674	LF	78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	477.84	82.25
		For Bituminous Coated Pipe, Add	59.22	
33 42 11 00-0675	LF	84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	509.54	88.13
		For Bituminous Coated Pipe, Add	62.99	
33 42 11 00-0676	LF	90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	541.21	93.99
		For Bituminous Coated Pipe, Add	66.76	
33 42 11 00-0677	LF	96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	573.71	99.87
		For Bituminous Coated Pipe, Add	70.52	
33 42 11 00-0678	LF	102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	607.28	105.75
		For Bituminous Coated Pipe, Add	73.87	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0679 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0680 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0679)		
33 42 11 00-0681 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	22.94 2.42	6.54
33 42 11 00-0682 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	24.96 2.91	6.54
33 42 11 00-0683 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	28.90 3.20	8.17
33 42 11 00-0684 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	31.47 3.83	8.17
33 42 11 00-0685 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	36.52 4.02	9.81
33 42 11 00-0686 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	39.77 4.81	9.81
33 42 11 00-0687 Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0679)		
33 42 11 00-0688 LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	23.23 2.39	6.54
33 42 11 00-0689 LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	25.18 2.84	6.54
33 42 11 00-0690 LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	29.19 3.13	8.17
33 42 11 00-0691 LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	31.91 3.77	8.17
33 42 11 00-0692 LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	37.00 3.97	9.81
33 42 11 00-0693 LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	40.33 4.75	9.81
33 42 11 00-0694 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0679)		
33 42 11 00-0695 EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	14.93 3.36	
33 42 11 00-0696 EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	19.76 4.45	
33 42 11 00-0697 EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	24.23 5.45	
33 42 11 00-0698 EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	53.84 7.43	
33 42 11 00-0699 EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	10.94 1.70	
33 42 11 00-0700 EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	14.04 2.54	
33 42 11 00-0701 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0702 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0701)		
33 42 11 00-0703 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	74.14	11.44
33 42 11 00-0704 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	88.08	11.99
33 42 11 00-0705 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	102.43	13.08
33 42 11 00-0706 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	119.48	14.17
33 42 11 00-0707 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	133.45	15.26
33 42 11 00-0708 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	174.47	19.62
33 42 11 00-0709 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	224.26	25.85
33 42 11 00-0710 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	260.24	30.55
33 42 11 00-0711 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	292.01	35.25
33 42 11 00-0712 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0701)		
33 42 11 00-0713 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	85.04	11.44
33 42 11 00-0714 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	101.58	11.99
33 42 11 00-0715 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	118.61	13.08
33 42 11 00-0716 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	138.21	14.17
33 42 11 00-0717 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	155.21	15.26
33 42 11 00-0718 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	201.18	19.62
33 42 11 00-0719 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	256.50	25.85
33 42 11 00-0720 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	297.24	30.55
33 42 11 00-0721 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	334.25	35.25
33 42 11 00-0722 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	405.52	39.95
33 42 11 00-0723 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0701)		
33 42 11 00-0724 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	152.33	13.08
33 42 11 00-0725 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	177.59	14.17
33 42 11 00-0726 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	199.97	15.26



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0727	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	257.11	19.62
33 42 11 00-0728	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	309.90	25.85
33 42 11 00-0729	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	375.47	30.55
33 42 11 00-0730	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	423.52	35.25
33 42 11 00-0731	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	507.39	39.95
33 42 11 00-0732	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	554.48	42.30
33 42 11 00-0733	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	679.48	51.70
33 42 11 00-0734		10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0701)		
33 42 11 00-0735	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	384.91	25.85
33 42 11 00-0736	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	446.73	30.55
33 42 11 00-0737	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	504.47	35.25
33 42 11 00-0738	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	598.07	39.95
33 42 11 00-0739	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	655.44	42.30
33 42 11 00-0740	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	790.35	51.70
33 42 11 00-0741	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	888.39	75.20
33 42 11 00-0742		3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0743		16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0744	LF	36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	286.16	25.85
33 42 11 00-0745	LF	42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	331.62	30.55
33 42 11 00-0746	LF	48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	372.05	35.25
33 42 11 00-0747	LF	54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	451.04	39.95
33 42 11 00-0748	LF	60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	491.10	42.30
33 42 11 00-0749	LF	66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	626.42	51.70
33 42 11 00-0750	LF	72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	708.93	75.20
33 42 11 00-0751	LF	78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	758.04	82.25
33 42 11 00-0752	LF	84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	804.07	88.13
33 42 11 00-0753	LF	90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	850.16	93.99
33 42 11 00-0754	LF	96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	896.92	99.87
33 42 11 00-0755	LF	102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	947.24	105.75
33 42 11 00-0756		14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0757	LF	54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	509.33	39.95
33 42 11 00-0758	LF	60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	555.54	42.30
33 42 11 00-0759	LF	66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	697.40	51.70
33 42 11 00-0760	LF	72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	786.12	75.20
33 42 11 00-0761	LF	78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	841.55	82.25
33 42 11 00-0762	LF	84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	894.11	88.13
33 42 11 00-0763	LF	90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	946.32	93.99
33 42 11 00-0764	LF	96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	999.35	99.87
33 42 11 00-0765	LF	102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,056.03	105.75
33 42 11 00-0766	LF	108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,115.24	117.50
33 42 11 00-0767	LF	114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,173.22	129.24
33 42 11 00-0768		12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0769	LF	60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	702.15	42.30
33 42 11 00-0770	LF	66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	860.49	51.70
33 42 11 00-0771	LF	72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	963.36	75.20
33 42 11 00-0772	LF	78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,032.99	82.25
33 42 11 00-0773	LF	84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,099.70	88.13
33 42 11 00-0774	LF	90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,166.14	93.99
33 42 11 00-0775	LF	96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,233.50	99.87
33 42 11 00-0776	LF	102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,304.29	105.75
33 42 11 00-0777	LF	108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,377.53	117.50
33 42 11 00-0778	LF	114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,449.93	129.24
33 42 11 00-0779	LF	120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,521.50	141.00
33 42 11 00-0780		10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
33 42 11 00-0781	LF	72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,124.86	75.20
33 42 11 00-0782	LF	78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,207.65	82.25
33 42 11 00-0783	LF	84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,287.63	88.13
33 42 11 00-0784	LF	90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,367.27	93.99
33 42 11 00-0785	LF	96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,447.93	99.87
33 42 11 00-0786	LF	102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,531.97	105.75
33 42 11 00-0787	LF	108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,618.48	117.50
33 42 11 00-0788	LF	114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,704.06	129.24
33 42 11 00-0789	LF	120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,788.87	141.00
33 42 11 00-0790	LF	126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,875.53	152.75
33 42 11 00-0791	LF	132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,965.49	164.50
33 42 11 00-0792	LF	138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	2,059.09	176.25
33 42 11 00-0793		125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0794 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel**Piping** (33 42 11 00-0793)

33 42 11 00-0795	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	359.48	35.25
33 42 11 00-0796	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	437.20	39.95
33 42 11 00-0797	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	475.25	42.30
33 42 11 00-0798	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	596.96	51.70
33 42 11 00-0799	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	677.06	75.20
33 42 11 00-0800	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	723.66	82.25
33 42 11 00-0801	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	766.85	88.13
33 42 11 00-0802	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	809.94	93.99
33 42 11 00-0803	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	854.34	99.87
33 42 11 00-0804	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	902.90	105.75

33 42 11 00-0805 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel**Piping** (33 42 11 00-0793)

33 42 11 00-0806	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	506.45	39.95
33 42 11 00-0807	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	552.37	42.30
33 42 11 00-0808	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	681.08	51.70
33 42 11 00-0809	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	767.95	75.20
33 42 11 00-0810	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	822.76	82.25
33 42 11 00-0811	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	873.66	88.13
33 42 11 00-0812	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	920.62	93.99
33 42 11 00-0813	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	976.25	99.87
33 42 11 00-0814	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,031.27	105.75
33 42 11 00-0815	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,088.51	117.50
33 42 11 00-0816	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,146.30	129.24

33 42 11 00-0817 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel**Piping** (33 42 11 00-0793)

33 42 11 00-0818	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	706.96	42.30
33 42 11 00-0819	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	852.10	51.70
33 42 11 00-0820	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	955.13	75.20
33 42 11 00-0821	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,024.15	82.25
33 42 11 00-0822	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,089.55	88.13
33 42 11 00-0823	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,155.80	93.99
33 42 11 00-0824	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,222.48	99.87
33 42 11 00-0825	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,292.19	105.75
33 42 11 00-0826	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,365.22	117.50
33 42 11 00-0827	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,437.36	129.24
33 42 11 00-0828	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,507.99	141.00

33 42 11 00-0829 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel**Piping** (33 42 11 00-0793)

33 42 11 00-0830	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,124.79	75.20
33 42 11 00-0831	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,209.59	82.25
33 42 11 00-0832	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,289.85	88.13
33 42 11 00-0833	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,369.46	93.99
33 42 11 00-0834	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,450.51	99.87
33 42 11 00-0835	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,534.41	105.75
33 42 11 00-0836	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,621.31	117.50
33 42 11 00-0837	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,707.69	129.24
33 42 11 00-0838	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,792.32	141.00
33 42 11 00-0839	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,900.92	152.75
33 42 11 00-0840	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,996.70	164.50
33 42 11 00-0841	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	2,098.84	176.25

33 42 11 00-0842 Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0498)**33 42 11 00-0843 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch** (33 42 11 00-0842)**33 42 11 00-0844 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch****Arch** (33 42 11 00-0843)

33 42 11 00-0845	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	52.24	11.99
		For Bituminous Coated Pipe, Add	6.88	
		For Bituminous Coated And 25% Paved, Add	16.63	
		For Smooth-Flo, Add	27.43	
33 42 11 00-0846	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	58.50	13.08
		For Bituminous Coated Pipe, Add	8.21	
		For Bituminous Coated And 25% Paved, Add	19.86	
		For Smooth-Flo, Add	32.76	
33 42 11 00-0847	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	67.24	14.17
		For Bituminous Coated Pipe, Add	9.89	
		For Bituminous Coated And 25% Paved, Add	23.91	
		For Smooth-Flo, Add	39.43	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0848	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	75.64 11.39 27.54 45.43	15.26
33 42 11 00-0849	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	98.34 14.47 34.98 57.69	19.62
33 42 11 00-0850	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	129.77 18.66 45.11 74.42	25.85
33 42 11 00-0851		14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0843)		
33 42 11 00-0852	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	57.81 7.14 16.69 27.38	11.99
33 42 11 00-0853	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	65.32 8.56 20.02 32.84	13.08
33 42 11 00-0854	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	74.85 10.17 23.80 39.04	14.17
33 42 11 00-0855	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	84.45 11.73 27.44 45.01	15.26
33 42 11 00-0856	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	109.34 14.86 34.76 57.01	19.62
33 42 11 00-0857	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	142.85 18.92 44.27 72.62	25.85
33 42 11 00-0858	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	164.66 22.54 52.74 86.50	30.55
33 42 11 00-0859		12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0843)		
33 42 11 00-0860	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	85.61 9.26 20.61 31.68	14.10
33 42 11 00-0861	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	98.10 10.98 24.44 37.57	15.27
33 42 11 00-0862	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	110.40 12.59 28.03 43.10	16.45
33 42 11 00-0863	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	142.27 15.86 35.29 54.26	21.15
33 42 11 00-0864	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	169.53 19.84 44.16 67.90	25.85
33 42 11 00-0865	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	195.45 23.47 52.22 80.30	30.55
33 42 11 00-0866	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	228.35 27.83 61.93 95.24	35.25
33 42 11 00-0867	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	255.06 30.73 68.40 105.17	39.95
33 42 11 00-0868		10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0843)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0869	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	194.64 23.91 50.33 63.47	25.85
33 42 11 00-0870	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	224.74 28.20 59.37 74.88	30.55
33 42 11 00-0871	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	261.54 33.18 69.86 88.10	35.25
33 42 11 00-0872	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	292.58 36.79 77.46 97.69	39.95
33 42 11 00-0873	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	320.58 40.39 85.04 107.24	42.30
33 42 11 00-0874		3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0875		14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)		
33 42 11 00-0876	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	254.69 35.46 107.79 120.55	39.95
33 42 11 00-0877	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	278.37 38.80 117.96 131.93	42.30
33 42 11 00-0878	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	344.90 48.73 148.15 165.70	51.70
33 42 11 00-0879	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	410.78 52.25 158.83 177.64	75.20
33 42 11 00-0880	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	444.18 55.94 170.05 190.18	82.25
33 42 11 00-0881	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	474.47 59.65 181.32 202.80	88.13
33 42 11 00-0882	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	504.68 63.34 192.54 215.34	93.99
33 42 11 00-0883	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	535.67 67.01 203.72 227.85	99.87
33 42 11 00-0884		12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)		
33 42 11 00-0885	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	336.11 50.35 131.92 156.09	42.30
33 42 11 00-0886	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	408.95 61.54 161.25 190.79	51.70
33 42 11 00-0887	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	480.51 66.19 173.42 205.20	75.20
33 42 11 00-0888	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	519.53 71.01 186.04 220.12	82.25
33 42 11 00-0889	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	555.45 75.84 198.71 235.11	88.13
33 42 11 00-0890	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	591.34 80.67 211.35 250.07	93.99



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
33 42 11 00-0891	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	627.96 85.47 223.94 264.96		99.87
33 42 11 00-0892	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	668.10 90.33 236.66 280.02		105.75
33 42 11 00-0893	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	710.77 95.15 249.30 294.98		117.50
33 42 11 00-0894	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	755.37 100.46 263.21 311.43		129.24
33 42 11 00-0895	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)			
33 42 11 00-0896	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	545.28 79.15 188.37 204.59		75.20
33 42 11 00-0897	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	589.67 85.03 202.38 219.81		82.25
33 42 11 00-0898	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	630.91 90.93 216.42 235.06		88.13
33 42 11 00-0899	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	672.01 96.80 230.39 250.23		93.99
33 42 11 00-0900	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	714.00 102.68 244.38 265.43		99.87
33 42 11 00-0901	LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	759.39 108.59 258.44 280.70		105.75
33 42 11 00-0902	LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	807.39 114.48 272.46 295.93		117.50
33 42 11 00-0903	LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	856.88 120.76 287.41 312.17		129.24
33 42 11 00-0904	LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	911.21 128.31 305.37 331.68		141.00
33 42 11 00-0905	125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0842)			
33 42 11 00-0906	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0905)			
33 42 11 00-0907	LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	486.86 67.46 164.61 209.47		75.20
33 42 11 00-0908	LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	525.26 72.15 176.05 224.03		82.25
33 42 11 00-0909	LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	560.19 76.79 187.37 238.43		88.13
33 42 11 00-0910	LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	595.14 81.43 198.68 252.83		93.99
33 42 11 00-0911	LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	631.09 86.10 210.08 267.33		99.87

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0912	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	670.70 90.85 221.67 282.09	105.75
33 42 11 00-0913	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	712.86 95.57 233.20 296.75	117.50
33 42 11 00-0914	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	760.53 101.49 247.64 315.13	129.24
33 42 11 00-0915 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0905)				
33 42 11 00-0916	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	558.57 81.80 184.88 200.83	75.20
33 42 11 00-0917	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	602.70 87.64 198.07 215.16	82.25
33 42 11 00-0918	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	643.47 93.45 211.19 229.41	88.13
33 42 11 00-0919	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	684.41 99.28 224.38 243.74	93.99
33 42 11 00-0920	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	725.20 104.92 237.12 257.58	99.87
33 42 11 00-0921	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	771.43 111.00 250.85 272.50	105.75
33 42 11 00-0922	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	819.53 116.91 264.21 287.00	117.50
33 42 11 00-0923	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	873.09 124.00 280.25 304.43	129.24
33 42 11 00-0924	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	923.19 130.70 295.39 320.88	141.00
33 42 11 00-0925 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0842)				
33 42 11 00-0926 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0925)				
33 42 11 00-0927	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	88.17	11.99
33 42 11 00-0928	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	101.44	13.08
33 42 11 00-0929	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	119.06	14.17
33 42 11 00-0930	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	135.44	15.26
33 42 11 00-0931	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	174.51	19.62
33 42 11 00-0932	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	228.71	25.85
33 42 11 00-0933 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0925)				
33 42 11 00-0934	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	101.00	11.99
33 42 11 00-0935	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	117.11	13.08
33 42 11 00-0936	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	136.55	14.17
33 42 11 00-0937	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	155.77	15.26
33 42 11 00-0938	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	199.79	19.62
33 42 11 00-0939	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	258.77	25.85
33 42 11 00-0940	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	303.06	30.55
33 42 11 00-0941 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0925)				
33 42 11 00-0942	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	155.52	13.08
33 42 11 00-0943	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	182.04	14.17
33 42 11 00-0944	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	207.29	15.26
33 42 11 00-0945	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	264.09	19.62
33 42 11 00-0946	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	336.44	25.85
33 42 11 00-0947	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	393.50	30.55



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0948 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	464.82	35.25
33 42 11 00-0949 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	515.48	39.95
33 42 11 00-0950 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0925)		
33 42 11 00-0951 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	397.36	25.85
33 42 11 00-0952 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	464.58	30.55
33 42 11 00-0953 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	545.39	35.25
33 42 11 00-0954 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	606.58	39.95
33 42 11 00-0955 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	664.61	42.30
33 42 11 00-0956 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0957 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0956)		
33 42 11 00-0958 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	520.78	39.95
33 42 11 00-0959 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	569.00	42.30
33 42 11 00-0960 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	713.02	51.70
33 42 11 00-0961 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	804.88	75.20
33 42 11 00-0962 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	865.63	82.25
33 42 11 00-0963 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	923.36	88.13
33 42 11 00-0964 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	980.84	93.99
33 42 11 00-0965 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,039.29	99.87
33 42 11 00-0966 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0956)		
33 42 11 00-0967 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	715.89	42.30
33 42 11 00-0968 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	876.53	51.70
33 42 11 00-0969 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	982.84	75.20
33 42 11 00-0970 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,057.78	82.25
33 42 11 00-0971 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,129.76	88.13
33 42 11 00-0972 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,201.67	93.99
33 42 11 00-0973 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,274.23	99.87
33 42 11 00-0974 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,350.54	105.75
33 42 11 00-0975 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,429.24	117.50
33 42 11 00-0976 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,513.46	129.24
33 42 11 00-0977 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0956)		
33 42 11 00-0978 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,144.30	75.20
33 42 11 00-0979 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,232.57	82.25
33 42 11 00-0980 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,317.90	88.13
33 42 11 00-0981 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,402.78	93.99
33 42 11 00-0982 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,488.64	99.87
33 42 11 00-0983 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,578.14	105.75
33 42 11 00-0984 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,670.14	117.50
33 42 11 00-0985 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,766.48	129.24
33 42 11 00-0986 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,877.09	141.00
33 42 11 00-0987 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0988 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0987)		
33 42 11 00-0989 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	968.33	75.20
33 42 11 00-0990 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,039.63	82.25
33 42 11 00-0991 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,107.09	88.13
33 42 11 00-0992 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,174.47	93.99
33 42 11 00-0993 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,243.11	99.87
33 42 11 00-0994 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,316.04	105.75
33 42 11 00-0995 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,391.25	117.50
33 42 11 00-0996 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,480.37	129.24
33 42 11 00-0997 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0987)		
33 42 11 00-0998 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,140.52	75.20
33 42 11 00-0999 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,225.49	82.25
33 42 11 00-1000 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,306.93	88.13
33 42 11 00-1001 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,388.75	93.99
33 42 11 00-1002 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,469.15	99.87
33 42 11 00-1003 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,557.86	105.75
33 42 11 00-1004 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,647.39	117.50
33 42 11 00-1005 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,750.84	129.24
33 42 11 00-1006 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,847.64	141.00
33 42 11 00-1007 Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0498)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-1008	2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1007)				
33 42 11 00-1009	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1008)				
33 42 11 00-1010	LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	49.10 10.23		11.44	
33 42 11 00-1011	LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	56.51 12.88		11.99	
33 42 11 00-1012	LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	64.18 15.62		13.08	
33 42 11 00-1013	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	73.75 18.67		14.17	
33 42 11 00-1014	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	81.95 21.03		15.26	
33 42 11 00-1015	LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	107.78 27.29		19.62	
33 42 11 00-1016	LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	140.03 34.42		25.85	
33 42 11 00-1017	LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	160.59 40.72		30.55	
33 42 11 00-1018	LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	180.40 45.62		35.25	
33 42 11 00-1019	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1008)				
33 42 11 00-1020	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	54.62 9.72		11.44	
33 42 11 00-1021	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	63.34 12.20		11.99	
33 42 11 00-1022	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	72.31 14.74		13.08	
33 42 11 00-1023	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	83.18 17.53		14.17	
33 42 11 00-1024	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	92.89 19.85		15.26	
33 42 11 00-1025	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	121.17 25.49		19.62	
33 42 11 00-1026	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	156.24 31.94		25.85	
33 42 11 00-1027	LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	179.25 37.62		30.55	
33 42 11 00-1028	LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	201.67 42.27		35.25	
33 42 11 00-1029	LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	242.39 51.97		39.95	
33 42 11 00-1030	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1008)				
33 42 11 00-1031	LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	89.40 13.74		13.08	
33 42 11 00-1032	LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	103.14 16.26		14.17	
33 42 11 00-1033	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	115.56 18.42		15.26	
33 42 11 00-1034	LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	149.46 23.48		19.62	
33 42 11 00-1035	LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	190.37 29.14		25.85	
33 42 11 00-1036	LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	218.80 34.18		30.55	
33 42 11 00-1037	LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	246.79 38.55		35.25	
33 42 11 00-1038	LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	293.93 46.55		39.95	
33 42 11 00-1039	LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	321.10 50.90		42.30	
33 42 11 00-1040	LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	392.37 62.60		51.70	
33 42 11 00-1041	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1008)				
33 42 11 00-1042	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	221.06 31.92		25.85	
33 42 11 00-1043	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	254.71 37.42		30.55	
33 42 11 00-1044	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	287.54 42.25		35.25	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 42 11 00-1045	LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	339.63		39.95
	For 1/2 Bituminous Coated And 25% Paved, Add	50.35		
33 42 11 00-1046	LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	371.96		42.30
	For 1/2 Bituminous Coated And 25% Paved, Add	55.22		
33 42 11 00-1047	LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	448.24		51.70
	For 1/2 Bituminous Coated And 25% Paved, Add	66.63		
33 42 11 00-1048	LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	521.57		75.20
	For 1/2 Bituminous Coated And 25% Paved, Add	71.43		
33 42 11 00-1049	3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1007)			
33 42 11 00-1050	16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping			
	(33 42 11 00-1049)			
33 42 11 00-1051	LF 36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	164.16		25.85
	For 1/2 Bituminous Coated And 25% Paved, Add	38.27		
33 42 11 00-1052	LF 42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	188.21		30.55
	For 1/2 Bituminous Coated And 25% Paved, Add	44.94		
33 42 11 00-1053	LF 48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	211.46		35.25
	For 1/2 Bituminous Coated And 25% Paved, Add	50.39		
33 42 11 00-1054	LF 54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	253.28		39.95
	For 1/2 Bituminous Coated And 25% Paved, Add	61.55		
33 42 11 00-1055	LF 60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	275.97		42.30
	For 1/2 Bituminous Coated And 25% Paved, Add	67.06		
33 42 11 00-1056	LF 66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	347.35		51.70
	For 1/2 Bituminous Coated And 25% Paved, Add	86.14		
33 42 11 00-1057	LF 72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	411.88		75.20
	For 1/2 Bituminous Coated And 25% Paved, Add	91.82		
33 42 11 00-1058	LF 78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	443.09		82.25
	For 1/2 Bituminous Coated And 25% Paved, Add	97.51		
33 42 11 00-1059	LF 84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	471.14		88.13
	For 1/2 Bituminous Coated And 25% Paved, Add	103.22		
33 42 11 00-1060	LF 90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	499.21		93.99
	For 1/2 Bituminous Coated And 25% Paved, Add	108.92		
33 42 11 00-1061	LF 96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	528.07		99.87
	For 1/2 Bituminous Coated And 25% Paved, Add	114.61		
33 42 11 00-1062	LF 102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	560.33		105.75
	For 1/2 Bituminous Coated And 25% Paved, Add	120.36		
33 42 11 00-1063	14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping			
	(33 42 11 00-1049)			
33 42 11 00-1064	LF 54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	281.01		39.95
	For 1/2 Bituminous Coated And 25% Paved, Add	53.34		
33 42 11 00-1065	LF 60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	306.61		42.30
	For 1/2 Bituminous Coated And 25% Paved, Add	58.23		
33 42 11 00-1066	LF 66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	381.07		51.70
	For 1/2 Bituminous Coated And 25% Paved, Add	73.32		
33 42 11 00-1067	LF 72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	448.61		75.20
	For 1/2 Bituminous Coated And 25% Paved, Add	78.35		
33 42 11 00-1068	LF 78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	482.79		82.25
	For 1/2 Bituminous Coated And 25% Paved, Add	83.39		
33 42 11 00-1069	LF 84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	513.97		88.13
	For 1/2 Bituminous Coated And 25% Paved, Add	88.49		
33 42 11 00-1070	LF 90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	544.96		93.99
	For 1/2 Bituminous Coated And 25% Paved, Add	93.52		
33 42 11 00-1071	LF 96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	576.79		99.87
	For 1/2 Bituminous Coated And 25% Paved, Add	98.56		
33 42 11 00-1072	LF 102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	612.02		105.75
	For 1/2 Bituminous Coated And 25% Paved, Add	103.64		
33 42 11 00-1073	LF 108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	649.91		117.50
	For 1/2 Bituminous Coated And 25% Paved, Add	108.71		
33 42 11 00-1074	LF 114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	687.00		129.24
	For 1/2 Bituminous Coated And 25% Paved, Add	113.69		
33 42 11 00-1075	12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping			
	(33 42 11 00-1049)			
33 42 11 00-1076	LF 60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	374.72		42.30
	For 1/2 Bituminous Coated And 25% Paved, Add	78.11		
33 42 11 00-1077	LF 66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	456.47		51.70
	For 1/2 Bituminous Coated And 25% Paved, Add	95.56		
33 42 11 00-1078	LF 72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	530.59		75.20
	For 1/2 Bituminous Coated And 25% Paved, Add	102.50		
33 42 11 00-1079	LF 78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	571.43		82.25
	For 1/2 Bituminous Coated And 25% Paved, Add	109.46		
33 42 11 00-1080	LF 84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	609.18		88.13
	For 1/2 Bituminous Coated And 25% Paved, Add	116.46		
33 42 11 00-1081	LF 90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	646.84		93.99
	For 1/2 Bituminous Coated And 25% Paved, Add	123.43		
33 42 11 00-1082	LF 96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	685.28		99.87
	For 1/2 Bituminous Coated And 25% Paved, Add	130.38		
33 42 11 00-1083	LF 102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	727.14		105.75
	For 1/2 Bituminous Coated And 25% Paved, Add	137.38		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1084	LF	108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	771.59 144.34	117.50
33 42 11 00-1085	LF	114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	815.35 151.25	129.24
33 42 11 00-1086	LF	120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	857.95 158.25	141.00
33 42 11 00-1087 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping				
33 42 11 00-1088	LF	72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	607.03 125.81	75.20
33 42 11 00-1089	LF	78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	654.03 134.62	82.25
33 42 11 00-1090	LF	84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	698.08 143.51	88.13
33 42 11 00-1091	LF	90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	741.94 152.33	93.99
33 42 11 00-1092	LF	96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	786.74 161.19	99.87
33 42 11 00-1093	LF	102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	834.90 170.07	105.75
33 42 11 00-1094	LF	108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	885.55 178.90	117.50
33 42 11 00-1095	LF	114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	935.57 187.69	129.24
33 42 11 00-1096	LF	120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	984.48 196.57	141.00
33 42 11 00-1097	LF	126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,035.45 205.38	152.75
33 42 11 00-1098	LF	132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,089.48 214.26	164.50
33 42 11 00-1099	LF	138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,147.13 223.14	176.25
33 42 11 00-1100 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
33 42 11 00-1101 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
33 42 11 00-1102	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	212.35 62.44	35.25
33 42 11 00-1103	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	254.90 76.50	39.95
33 42 11 00-1104	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	277.38 83.19	42.30
33 42 11 00-1105	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	344.22 104.73	51.70
33 42 11 00-1106	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	408.39 111.56	75.20
33 42 11 00-1107	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	439.18 118.39	82.25
33 42 11 00-1108	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	466.65 125.17	88.13
33 42 11 00-1109	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	494.05 131.91	93.99
33 42 11 00-1110	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	522.59 138.78	99.87
33 42 11 00-1111	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	554.75 145.81	105.75
33 42 11 00-1112 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
33 42 11 00-1113	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	289.55 72.13	39.95
33 42 11 00-1114	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	315.99 78.75	42.30
33 42 11 00-1115	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	386.28 96.92	51.70
33 42 11 00-1116	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	453.88 103.47	75.20
33 42 11 00-1117	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	488.73 110.24	82.25
33 42 11 00-1118	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	520.07 116.90	88.13
33 42 11 00-1119	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	549.44 122.89	93.99
33 42 11 00-1120	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	583.51 130.19	99.87
33 42 11 00-1121	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	618.96 136.85	105.75



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-1122	LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	656.89 143.44		117.50
33 42 11 00-1123	LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	694.81 150.19		129.24
33 42 11 00-1124 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1100)				
33 42 11 00-1125	LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	388.17 86.89		42.30
33 42 11 00-1126	LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	465.85 104.28		51.70
33 42 11 00-1127	LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	541.01 111.96		75.20
33 42 11 00-1128	LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	582.53 119.56		82.25
33 42 11 00-1129	LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	620.69 127.11		88.13
33 42 11 00-1130	LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	659.24 134.77		93.99
33 42 11 00-1131	LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	698.36 142.36		99.87
33 42 11 00-1132	LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	740.74 149.95		105.75
33 42 11 00-1133	LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	786.02 157.59		117.50
33 42 11 00-1134	LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	830.67 165.19		129.24
33 42 11 00-1135	LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	873.84 172.79		141.00
33 42 11 00-1136 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1100)				
33 42 11 00-1137	LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	624.44 135.82		75.20
33 42 11 00-1138	LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	673.73 145.64		82.25
33 42 11 00-1139	LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	719.13 155.27		88.13
33 42 11 00-1140	LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	764.24 164.80		93.99
33 42 11 00-1141	LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	810.46 174.42		99.87
33 42 11 00-1142	LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	859.76 183.99		105.75
33 42 11 00-1143	LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	911.92 193.60		117.50
33 42 11 00-1144	LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	963.55 203.20		129.24
33 42 11 00-1145	LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,013.55 212.75		141.00
33 42 11 00-1146	LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,076.62 225.37		152.75
33 42 11 00-1147	LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,134.71 235.76		164.50
33 42 11 00-1148	LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,197.78 246.55		176.25
33 42 11 00-1149 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1007)				
33 42 11 00-1150 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1149)				
33 42 11 00-1151	LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	73.50		13.08
33 42 11 00-1152	LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	84.54		14.17
33 42 11 00-1153	LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	94.72		15.26
33 42 11 00-1154	LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	123.36		19.62
33 42 11 00-1155	LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	158.32		25.85
33 42 11 00-1156	LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	181.70		30.55
33 42 11 00-1157	LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	204.95		35.25
33 42 11 00-1158	LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	243.85		39.95
33 42 11 00-1159	LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	266.49		42.30
33 42 11 00-1160 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1149)				
33 42 11 00-1161	LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	81.53		13.08
33 42 11 00-1162	LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	93.92		14.17
33 42 11 00-1163	LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	105.35		15.26
33 42 11 00-1164	LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	136.65		19.62
33 42 11 00-1165	LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	174.32		25.85
33 42 11 00-1166	LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	200.41		30.55

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1167 LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	226.31	35.25
33 42 11 00-1168 LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	267.88	39.95
33 42 11 00-1169 LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	293.27	42.30
33 42 11 00-1170 LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	356.94	51.70
33 42 11 00-1171 LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	423.45	75.20
33 42 11 00-1172 LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	456.84	82.25
33 42 11 00-1173 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1149)		
33 42 11 00-1174 LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	163.59	19.62
33 42 11 00-1175 LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	206.58	25.85
33 42 11 00-1176 LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	238.19	30.55
33 42 11 00-1177 LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	269.41	35.25
33 42 11 00-1178 LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	316.34	39.95
33 42 11 00-1179 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	347.21	42.30
33 42 11 00-1180 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	416.14	51.70
33 42 11 00-1181 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	487.96	75.20
33 42 11 00-1182 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	526.72	82.25
33 42 11 00-1183 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	562.12	88.13
33 42 11 00-1184 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	597.59	93.99
33 42 11 00-1185 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	633.75	99.87
33 42 11 00-1186 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	670.65	105.75
33 42 11 00-1187 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0498)		
33 42 11 00-1188 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1187)		
33 42 11 00-1189 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1190 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	58.39	11.99
For 1/2 Bituminous Coated And 40% Paved, Add	16.65	
33 42 11 00-1191 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	65.84	13.08
For 1/2 Bituminous Coated And 40% Paved, Add	19.88	
33 42 11 00-1192 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	76.05	14.17
For 1/2 Bituminous Coated And 40% Paved, Add	23.92	
33 42 11 00-1193 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	85.81	15.26
For 1/2 Bituminous Coated And 40% Paved, Add	27.57	
33 42 11 00-1194 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	111.27	19.62
For 1/2 Bituminous Coated And 40% Paved, Add	35.02	
33 42 11 00-1195 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	146.44	25.85
For 1/2 Bituminous Coated And 40% Paved, Add	45.16	
33 42 11 00-1196 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1197 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	65.21	11.99
For 1/2 Bituminous Coated And 40% Paved, Add	17.25	
33 42 11 00-1198 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	74.13	13.08
For 1/2 Bituminous Coated And 40% Paved, Add	20.66	
33 42 11 00-1199 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	85.37	14.17
For 1/2 Bituminous Coated And 40% Paved, Add	24.58	
33 42 11 00-1200 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	96.59	15.26
For 1/2 Bituminous Coated And 40% Paved, Add	28.35	
33 42 11 00-1201 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	124.71	19.62
For 1/2 Bituminous Coated And 40% Paved, Add	35.90	
33 42 11 00-1202 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	162.44	25.85
For 1/2 Bituminous Coated And 40% Paved, Add	45.73	
33 42 11 00-1203 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	188.00	30.55
For 1/2 Bituminous Coated And 40% Paved, Add	54.48	
33 42 11 00-1204 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1205 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	91.01	13.08
For 1/2 Bituminous Coated And 40% Paved, Add	18.93	
33 42 11 00-1206 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	105.38	14.17
For 1/2 Bituminous Coated And 40% Paved, Add	22.50	
33 42 11 00-1207 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	119.26	15.26
For 1/2 Bituminous Coated And 40% Paved, Add	25.83	
33 42 11 00-1208 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	153.01	19.62
For 1/2 Bituminous Coated And 40% Paved, Add	32.59	
33 42 11 00-1209 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	196.62	25.85
For 1/2 Bituminous Coated And 40% Paved, Add	40.98	
33 42 11 00-1210 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	227.87	30.55
For 1/2 Bituminous Coated And 40% Paved, Add	48.57	
33 42 11 00-1211 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	267.59	35.25
For 1/2 Bituminous Coated And 40% Paved, Add	57.83	
33 42 11 00-1212 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	298.00	39.95
For 1/2 Bituminous Coated And 40% Paved, Add	63.75	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-1213	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)				
33 42 11 00-1214	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	227.32 43.12		25.85	
33 42 11 00-1215	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	263.67 50.97		30.55	
33 42 11 00-1216	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	308.18 60.18		35.25	
33 42 11 00-1217	LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	343.91 66.63		39.95	
33 42 11 00-1218	LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	376.60 73.06		42.30	
33 42 11 00-1219	3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1187)				
33 42 11 00-1220	14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1219)				
33 42 11 00-1221	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	286.48 95.75		39.95	
33 42 11 00-1222	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	313.13 104.78		42.30	
33 42 11 00-1223	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	388.57 131.60		51.70	
33 42 11 00-1224	LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	457.58 141.08		75.20	
33 42 11 00-1225	LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	494.31 151.05		82.25	
33 42 11 00-1226	LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	527.88 161.05		88.13	
33 42 11 00-1227	LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	561.38 171.01		93.99	
33 42 11 00-1228	LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	595.76 180.98		99.87	
33 42 11 00-1229	12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1219)				
33 42 11 00-1230	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	381.29 119.07		42.30	
33 42 11 00-1231	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	464.13 145.52		51.70	
33 42 11 00-1232	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	539.86 156.51		75.20	
33 42 11 00-1233	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	583.16 167.88		82.25	
33 42 11 00-1234	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	623.46 179.34		88.13	
33 42 11 00-1235	LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	663.67 190.74		93.99	
33 42 11 00-1236	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	704.62 202.11		99.87	
33 42 11 00-1237	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	749.08 213.58		105.75	
33 42 11 00-1238	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	796.08 224.99		117.50	
33 42 11 00-1239	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	845.47 237.55		129.24	
33 42 11 00-1240	10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1219)				
33 42 11 00-1241	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	616.26 169.42		75.20	
33 42 11 00-1242	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	665.91 182.01		82.25	
33 42 11 00-1243	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	712.46 194.65		88.13	
33 42 11 00-1244	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	758.82 207.21		93.99	
33 42 11 00-1245	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	810.30 221.32		99.87	
33 42 11 00-1246	LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	856.79 232.44		105.75	
33 42 11 00-1247	LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	910.10 245.06		117.50	
33 42 11 00-1248	LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	965.17 258.49		129.24	
33 42 11 00-1249	LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	1,026.27 274.65		141.00	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1250		125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1187)		
33 42 11 00-1251		12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1250)		
33 42 11 00-1252	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	547.57 154.03	75.20
33 42 11 00-1253	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	590.19 164.74	82.25
33 42 11 00-1254	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	629.35 175.35	88.13
33 42 11 00-1255	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	668.46 185.94	93.99
33 42 11 00-1256	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	708.58 196.59	99.87
33 42 11 00-1257	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	752.46 207.44	105.75
33 42 11 00-1258	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	798.89 218.23	117.50
33 42 11 00-1259	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	851.88 231.74	129.24
33 42 11 00-1260		10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1250)		
33 42 11 00-1261	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	632.20 170.86	75.20
33 42 11 00-1262	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	681.60 183.05	82.25
33 42 11 00-1263	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	727.57 195.17	88.13
33 42 11 00-1264	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	773.78 207.37	93.99
33 42 11 00-1265	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	819.68 219.15	99.87
33 42 11 00-1266	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	871.33 231.83	105.75
33 42 11 00-1267	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	924.79 244.19	117.50
33 42 11 00-1268	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	984.71 259.00	129.24
33 42 11 00-1269	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	1,040.86 273.00	141.00
33 42 11 00-1270		Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-0498)		
33 42 11 00-1271		1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1270)		
33 42 11 00-1272		18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1271)		
33 42 11 00-1273	LF	6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	29.57 3.17	6.54
33 42 11 00-1274	LF	8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	38.24 4.30	8.17
33 42 11 00-1275	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	49.62 5.66	9.81
33 42 11 00-1276		16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1271)		
33 42 11 00-1277	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	33.20 3.14	6.54
33 42 11 00-1278	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	43.38 4.29	8.17
33 42 11 00-1279	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	56.47 5.67	9.81
33 42 11 00-1280		2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1270)		
33 42 11 00-1281		16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1280)		
33 42 11 00-1282	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	57.44 6.23	11.44
33 42 11 00-1283	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	66.88 7.82	11.99
33 42 11 00-1284	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	76.87 9.50	13.08



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST		
33 42 11 00-1285	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	88.83 11.34		14.17	
33 42 11 00-1286	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	99.40 12.86		15.26	
33 42 11 00-1287	14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1280)				
33 42 11 00-1288	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	65.23 6.09		11.44	
33 42 11 00-1289	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	76.80 7.67		11.99	
33 42 11 00-1290	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	88.75 9.30		13.08	
33 42 11 00-1291	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	102.62 11.04		14.17	
33 42 11 00-1292	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	115.22 12.54		15.26	
33 42 11 00-1293	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	149.61 16.08		19.62	
33 42 11 00-1294	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	190.82 19.99		25.85	
33 42 11 00-1295	12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1280)				
33 42 11 00-1296	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	145.47 11.90		15.26	
33 42 11 00-1297	LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	187.27 15.14		19.62	
33 42 11 00-1298	LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	236.05 18.67		25.85	
33 42 11 00-1299	LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	272.95 21.95		30.55	
33 42 11 00-1300	LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	308.73 24.85		35.25	
33 42 11 00-1301	LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	363.62 29.48		39.95	
33 42 11 00-1302	10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1280)				
33 42 11 00-1303	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	284.26 18.35		25.85	
33 42 11 00-1304	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	329.11 21.54		30.55	
33 42 11 00-1305	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	373.10 24.45		35.25	
33 42 11 00-1306	LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	436.03 28.69		39.95	
33 42 11 00-1307	LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	479.54 31.61		42.30	
33 42 11 00-1308	3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1270)				
33 42 11 00-1309	16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1308)				
33 42 11 00-1310	LF 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	147.15 18.35		19.62	
33 42 11 00-1311	LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	187.74 21.59		25.85	
33 42 11 00-1312	LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	215.59 24.20		30.55	
33 42 11 00-1313	LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	244.20 28.86		35.25	
33 42 11 00-1314	LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	288.86		39.95	
33 42 11 00-1315	14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1308)				
33 42 11 00-1316	LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	166.99 216.05		19.62	
33 42 11 00-1317	LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	216.05 248.44		25.85	
33 42 11 00-1318	LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	248.44 280.05		30.55	
33 42 11 00-1319	LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	280.05 330.86		35.25	
33 42 11 00-1320	LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	330.86 361.82		39.95	
33 42 11 00-1321	LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	361.82 440.41		42.30	
33 42 11 00-1322	LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	440.41 513.00		51.70	
33 42 11 00-1323	LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	513.00 552.29		75.20	
33 42 11 00-1324	LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	552.29		82.25	
33 42 11 00-1325	12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1308)				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1326 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	213.30	19.62
33 42 11 00-1327 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	268.13	25.85
33 42 11 00-1328 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	310.68	30.55
33 42 11 00-1329 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	351.44	35.25
33 42 11 00-1330 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	410.99	39.95
33 42 11 00-1331 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	450.55	42.30
33 42 11 00-1332 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	537.73	51.70
33 42 11 00-1333 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	619.14	75.20
33 42 11 00-1334 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	667.10	82.25
33 42 11 00-1335 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	712.00	88.13
33 42 11 00-1336 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	756.78	93.99
33 42 11 00-1337 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	802.40	99.87
33 42 11 00-1338 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1308)		
33 42 11 00-1339 LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	543.89	42.30
33 42 11 00-1340 LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	636.45	51.70
33 42 11 00-1341 LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	726.72	75.20
33 42 11 00-1342 LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	783.56	82.25
33 42 11 00-1343 LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	837.18	88.13
33 42 11 00-1344 LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	890.80	93.99
33 42 11 00-1345 LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	945.21	99.87
33 42 11 00-1346 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	1,003.08	105.75
33 42 11 00-1347 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	1,063.51	117.50
33 42 11 00-1348 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1270) Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1349 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1348)		
33 42 11 00-1350 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	103.57	13.08
33 42 11 00-1351 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	111.38	14.17
33 42 11 00-1352 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	134.89	15.26
33 42 11 00-1353 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	155.78	17.44
33 42 11 00-1354 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	174.32	19.62
33 42 11 00-1355 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	195.11	21.80
33 42 11 00-1356 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1348)		
33 42 11 00-1357 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	120.35	13.08
33 42 11 00-1358 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	139.52	14.17
33 42 11 00-1359 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	157.46	15.26
33 42 11 00-1360 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	181.10	17.44
33 42 11 00-1361 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	202.41	19.62
33 42 11 00-1362 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	226.06	21.80
33 42 11 00-1363 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	254.57	25.85
33 42 11 00-1364 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	294.52	30.55
33 42 11 00-1365 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	333.30	35.25
33 42 11 00-1366 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1348)		
33 42 11 00-1367 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	257.33	19.62
33 42 11 00-1368 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	286.35	21.80
33 42 11 00-1369 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	320.44	25.85
33 42 11 00-1370 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	371.43	30.55
33 42 11 00-1371 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	421.21	35.25
33 42 11 00-1372 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	585.60	39.95
33 42 11 00-1373 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	644.66	42.30
33 42 11 00-1374 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1348)		
33 42 11 00-1375 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	600.32	35.25
33 42 11 00-1376 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	696.02	39.95
33 42 11 00-1377 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	767.48	42.30
33 42 11 00-1378 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	891.08	51.70
33 42 11 00-1379 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,002.50	75.20
33 42 11 00-1380 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,081.50	82.25
33 42 11 00-1381 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,156.60	88.13
33 42 11 00-1382 Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-0498)		
33 42 11 00-1383 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1382)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 42 11 00-1384	16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1383)			
33 42 11 00-1385	LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	70.42 7.83		11.99
33 42 11 00-1386	LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	80.22 9.36		13.08
33 42 11 00-1387	LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	92.65 11.14		14.17
33 42 11 00-1388	14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1383)			
33 42 11 00-1389	LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	80.36 7.80		11.99
33 42 11 00-1390	LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	89.76 9.00		13.08
33 42 11 00-1391	LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	106.44 11.05		14.17
33 42 11 00-1392	LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	120.41 12.67		15.26
33 42 11 00-1393	LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	154.77 16.03		19.62
33 42 11 00-1394	12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1383)			
33 42 11 00-1395	LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	150.68 12.08		15.26
33 42 11 00-1396	LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	192.52 15.23		19.62
33 42 11 00-1397	LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	244.94 19.01		25.85
33 42 11 00-1398	LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	284.65 22.48		30.55
33 42 11 00-1399	10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1383)			
33 42 11 00-1400	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	293.08 18.35		25.85
33 42 11 00-1401	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	340.90 21.64		30.55
33 42 11 00-1402	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	396.79 25.36		35.25
33 42 11 00-1403	LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	443.82 28.21		39.95
33 42 11 00-1404	3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1382)			
33 42 11 00-1405	14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1404)			
33 42 11 00-1406	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	338.64		39.95
33 42 11 00-1407	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	370.87		42.30
33 42 11 00-1408	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	451.60		51.70
33 42 11 00-1409	12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1404)			
33 42 11 00-1410	LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	418.77		39.95
33 42 11 00-1411	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	459.61		42.30
33 42 11 00-1412	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	548.51		51.70
33 42 11 00-1413	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	630.74		75.20
33 42 11 00-1414	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	679.53		82.25
33 42 11 00-1415	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	725.25		88.13
33 42 11 00-1416	10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1404)			
33 42 11 00-1417	LF 66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	552.80		42.30
33 42 11 00-1418	LF 73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	646.84		51.70
33 42 11 00-1419	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	737.91		75.20
33 42 11 00-1420	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	795.56		82.25
33 42 11 00-1421	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	850.00		88.13
33 42 11 00-1422	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	904.42		93.99
33 42 11 00-1423	Corrugated Steel Pipe Fittings (33 42 11 00-0498)			
Note: Equivalent pipe-arch sizes are approximate.				
33 42 11 00-1424	Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings (33 42 11 00-1423)			
Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.				
33 42 11 00-1425	EA Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	96.75		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1426	EA	Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	121.33	
33 42 11 00-1427	EA	Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	145.91	
33 42 11 00-1428	EA	Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	172.03	
33 42 11 00-1429	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	208.88	
33 42 11 00-1430	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	245.72	
33 42 11 00-1431	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	282.59	
33 42 11 00-1432	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	319.44	
33 42 11 00-1433	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	416.21	
33 42 11 00-1434	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	496.06	
33 42 11 00-1435	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	575.94	
33 42 11 00-1436	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	744.88	
33 42 11 00-1437	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	840.11	
33 42 11 00-1438	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	938.40	
33 42 11 00-1439	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	1,039.76	
33 42 11 00-1440	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,267.06	
33 42 11 00-1441	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,382.24	
33 42 11 00-1442	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,500.49	
33 42 11 00-1443	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,841.45	
33 42 11 00-1444	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,976.61	
33 42 11 00-1445	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	2,113.30	
33 42 11 00-1446	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,249.97	
33 42 11 00-1447	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,385.13	
33 42 11 00-1448	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,521.82	
33 42 11 00-1449	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,665.94	
33 42 11 00-1450	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,818.29	
33 42 11 00-1451	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,979.32	
33 42 11 00-1452		Fabricate Corrugated Steel Pipe Tees Or Laterals (33 42 11 00-1423)		
Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.				
33 42 11 00-1453	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	125.94	
33 42 11 00-1454	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	161.26	
33 42 11 00-1455	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	196.56	
33 42 11 00-1456	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	231.92	
33 42 11 00-1457	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	282.59	
33 42 11 00-1458	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	334.79	
33 42 11 00-1459	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	387.04	
33 42 11 00-1460	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	439.22	
33 42 11 00-1461	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	575.94	
33 42 11 00-1462	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	686.52	
33 42 11 00-1463	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	798.62	
33 42 11 00-1464	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	1,036.67	
33 42 11 00-1465	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,167.22	
33 42 11 00-1466	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,302.36	
33 42 11 00-1467	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,440.59	
33 42 11 00-1468	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,756.96	
33 42 11 00-1469	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,913.64	
33 42 11 00-1470	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,073.35	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 42 11 00-1471	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....		2,550.97	
33 42 11 00-1472	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....		2,733.74	
33 42 11 00-1473	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....		2,916.51	
33 42 11 00-1474	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....		3,100.79	
33 42 11 00-1475	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....		3,285.11	
33 42 11 00-1476	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....		3,467.84	
33 42 11 00-1477	EA	Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....		3,660.78	
33 42 11 00-1478	EA	Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....		3,864.43	
33 42 11 00-1479	EA	Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....		4,079.39	
33 42 11 00-1480	Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1423)				
Note: Applied to pipe tasks.					
33 42 11 00-1481	EA	Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		48.38	
33 42 11 00-1482	EA	Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		60.86	
33 42 11 00-1483	EA	Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		76.55	
33 42 11 00-1484	EA	Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		93.73	
33 42 11 00-1485	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		118.62	
33 42 11 00-1486	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		145.25	
33 42 11 00-1487	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		170.13	
33 42 11 00-1488	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		197.66	
33 42 11 00-1489	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		242.78	
33 42 11 00-1490	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		289.46	
33 42 11 00-1491	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		345.39	
33 42 11 00-1492	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		424.86	
33 42 11 00-1493	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		480.89	
33 42 11 00-1494	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		541.56	
33 42 11 00-1495	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		656.75	
33 42 11 00-1496	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		728.32	
33 42 11 00-1497	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		888.62	
33 42 11 00-1498	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		968.01	
33 42 11 00-1499	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,052.08	
33 42 11 00-1500	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,134.51	
33 42 11 00-1501	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,218.55	
33 42 11 00-1502	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,304.13	
33 42 11 00-1503	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,388.20	
33 42 11 00-1504	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,472.22	
33 42 11 00-1505	EA	Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,561.33	
33 42 11 00-1506	EA	Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,655.80	
33 42 11 00-1507	EA	Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....		1,756.02	
33 42 11 00-1508	Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1423)				
33 42 11 00-1509	EA	6" Coupling Band, Corrugated Metal Pipe Fitting.....		18.13	
		For Bituminous Coated, Add		5.26	
33 42 11 00-1510	EA	8" Coupling Band, Corrugated Metal Pipe Fitting.....		24.08	
		For Bituminous Coated, Add		6.98	
33 42 11 00-1511	EA	10" Coupling Band, Corrugated Metal Pipe Fitting.....		30.33	
		For Bituminous Coated, Add		8.80	
33 42 11 00-1512	EA	12" Coupling Band, Corrugated Metal Pipe Fitting.....		50.34	
		For Bituminous Coated, Add		14.60	
33 42 11 00-1513	EA	15" Coupling Band, Corrugated Metal Pipe Fitting.....		63.47	
		For Bituminous Coated, Add		18.41	
33 42 11 00-1514	EA	18" Coupling Band, Corrugated Metal Pipe Fitting.....		93.12	
		For Bituminous Coated, Add		27.00	
33 42 11 00-1515	EA	21" Coupling Band, Corrugated Metal Pipe Fitting.....		110.53	
		For Bituminous Coated, Add		32.05	
33 42 11 00-1516	EA	24" Coupling Band, Corrugated Metal Pipe Fitting.....		125.33	
		For Bituminous Coated, Add		36.35	
33 42 11 00-1517	EA	30" Coupling Band, Corrugated Metal Pipe Fitting.....		216.89	
		For Bituminous Coated, Add		62.90	
33 42 11 00-1518	EA	36" Coupling Band, Corrugated Metal Pipe Fitting.....		347.01	
		For Bituminous Coated, Add		83.28	
33 42 11 00-1519	EA	42" Coupling Band, Corrugated Metal Pipe Fitting.....		407.72	
		For Bituminous Coated, Add		97.85	
33 42 11 00-1520	EA	48" Coupling Band, Corrugated Metal Pipe Fitting.....		456.86	
		For Bituminous Coated, Add		109.65	
33 42 11 00-1521	EA	54" Coupling Band, Corrugated Metal Pipe Fitting.....		647.90	
		For Bituminous Coated, Add		155.50	
33 42 11 00-1522	EA	60" Coupling Band, Corrugated Metal Pipe Fitting.....		926.69	
		For Bituminous Coated, Add		166.80	
33 42 11 00-1523	EA	66" Coupling Band, Corrugated Metal Pipe Fitting.....		1,138.89	
		For Bituminous Coated, Add		205.00	
33 42 11 00-1524	EA	72" Coupling Band, Corrugated Metal Pipe Fitting.....		1,462.96	
		For Bituminous Coated, Add		204.81	
33 42 11 00-1525	EA	78" Coupling Band, Corrugated Metal Pipe Fitting.....		1,564.74	
		For Bituminous Coated, Add		219.06	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1526 EA 84" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,667.08 233.39	
33 42 11 00-1527 EA 90" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,768.91 247.65	
33 42 11 00-1528 EA 96" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,870.99 261.94	
33 42 11 00-1529 EA 102" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,973.34 276.27	
33 42 11 00-1530 EA 108" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	2,075.22 290.53	
33 42 11 00-1531 EA 114" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	2,457.87 294.94	
33 42 11 00-1532 EA 120" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	2,278.81 273.46	
33 42 11 00-1533 EA 126" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	2,380.38 285.65	
33 42 11 00-1534 EA 132" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	2,482.67 297.92	
33 42 11 00-1535 EA 138" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	2,585.07 310.21	

33 42 13 Stormwater Culverts (33 42)**33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)****33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)**

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0972 for crane lifting equipment.

33 42 13 13-0002 LF 3' x 3' Precast Reinforced Concrete Box Culvert	466.13	58.75
<i>For Each LF Of Cut-Off Section, Add</i>	18.65	
33 42 13 13-0003 LF 4' x 2' Precast Reinforced Concrete Box Culvert	525.33	58.75
<i>For Each LF Of Cut-Off Section, Add</i>	21.01	
33 42 13 13-0004 LF 4' x 3' Precast Reinforced Concrete Box Culvert	620.95	58.75
<i>For Each LF Of Cut-Off Section, Add</i>	24.84	
33 42 13 13-0005 LF 5' x 3' Precast Reinforced Concrete Box Culvert	745.45	73.44
<i>For Each LF Of Cut-Off Section, Add</i>	29.82	
33 42 13 13-0006 LF 5' x 4' Precast Reinforced Concrete Box Culvert	763.67	73.44
<i>For Each LF Of Cut-Off Section, Add</i>	30.55	
33 42 13 13-0007 LF 5' x 5' Precast Reinforced Concrete Box Culvert	772.77	73.44
<i>For Each LF Of Cut-Off Section, Add</i>	30.91	
33 42 13 13-0008 LF 6' x 3' Precast Reinforced Concrete Box Culvert	796.76	76.37
<i>For Each LF Of Cut-Off Section, Add</i>	31.87	
33 42 13 13-0009 LF 6' x 4' Precast Reinforced Concrete Box Culvert	801.31	76.37
<i>For Each LF Of Cut-Off Section, Add</i>	32.05	
33 42 13 13-0010 LF 6' x 6' Precast Reinforced Concrete Box Culvert	883.27	76.37
<i>For Each LF Of Cut-Off Section, Add</i>	35.33	
33 42 13 13-0011 LF 7' x 4' Precast Reinforced Concrete Box Culvert	906.37	88.13
<i>For Each LF Of Cut-Off Section, Add</i>	36.25	
33 42 13 13-0012 LF 7' x 6' Precast Reinforced Concrete Box Culvert	968.75	119.85
<i>For Each LF Of Cut-Off Section, Add</i>	38.75	
33 42 13 13-0013 LF 8' x 2' Precast Reinforced Concrete Box Culvert	887.83	76.37
<i>For Each LF Of Cut-Off Section, Add</i>	35.51	
33 42 13 13-0014 LF 8' x 3' Precast Reinforced Concrete Box Culvert	910.93	88.13
<i>For Each LF Of Cut-Off Section, Add</i>	36.44	
33 42 13 13-0015 LF 8' x 4' Precast Reinforced Concrete Box Culvert	924.59	88.13
<i>For Each LF Of Cut-Off Section, Add</i>	36.98	
33 42 13 13-0016 LF 8' x 5' Precast Reinforced Concrete Box Culvert	1,115.30	117.50
<i>For Each LF Of Cut-Off Section, Add</i>	44.61	
33 42 13 13-0017 LF 8' x 6' Precast Reinforced Concrete Box Culvert	1,118.94	117.50
<i>For Each LF Of Cut-Off Section, Add</i>	44.76	
33 42 13 13-0018 LF 8' x 8' Precast Reinforced Concrete Box Culvert	1,237.71	146.87
<i>For Each LF Of Cut-Off Section, Add</i>	49.51	
33 42 13 13-0019 LF 9' x 4' Precast Reinforced Concrete Box Culvert	1,232.78	117.50
<i>For Each LF Of Cut-Off Section, Add</i>	49.31	
33 42 13 13-0020 LF 9' x 6' Precast Reinforced Concrete Box Culvert	1,304.19	146.87
<i>For Each LF Of Cut-Off Section, Add</i>	52.17	
33 42 13 13-0021 LF 10' x 3' Precast Reinforced Concrete Box Culvert	1,308.74	146.87
<i>For Each LF Of Cut-Off Section, Add</i>	52.35	
33 42 13 13-0022 LF 10' x 4' Precast Reinforced Concrete Box Culvert	1,591.06	146.87
<i>For Each LF Of Cut-Off Section, Add</i>	63.64	
33 42 13 13-0023 LF 10' x 5' Precast Reinforced Concrete Box Culvert	1,667.04	176.25
<i>For Each LF Of Cut-Off Section, Add</i>	66.68	
33 42 13 13-0024 LF 10' x 6' Precast Reinforced Concrete Box Culvert	1,685.25	176.25
<i>For Each LF Of Cut-Off Section, Add</i>	67.41	
33 42 13 13-0025 LF 10' x 7' Precast Reinforced Concrete Box Culvert	1,689.80	176.25
<i>For Each LF Of Cut-Off Section, Add</i>	67.59	
33 42 13 13-0026 LF 10' x 8' Precast Reinforced Concrete Box Culvert	1,696.18	176.25
<i>For Each LF Of Cut-Off Section, Add</i>	67.85	
33 42 13 13-0027 LF 12' x 3' Precast Reinforced Concrete Box Culvert	1,761.21	205.62
<i>For Each LF Of Cut-Off Section, Add</i>	70.45	
33 42 13 13-0028 LF 12' x 4' Precast Reinforced Concrete Box Culvert	1,761.21	205.62
<i>For Each LF Of Cut-Off Section, Add</i>	70.45	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0029 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	1,761.21 70.45	205.62
33 42 13 13-0030 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	1,761.21 70.45	205.62
33 42 13 13-0031 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	2,565.75 102.63	235.00
33 42 13 13-0032 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	3,567.52 142.70	235.00
33 42 13 13-0033 Precast Reinforced Concrete Box Culvert For Roadways ^(33 42 13 13)		
Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0972 for crane lifting equipment.		
33 42 13 13-0034 LF 3' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,163.27 46.53	58.75
33 42 13 13-0035 LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,250.74 50.03	58.75
33 42 13 13-0036 LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,405.55 56.22	58.75
33 42 13 13-0037 LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,589.21 63.57	73.44
33 42 13 13-0038 LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,744.02 69.76	73.44
33 42 13 13-0039 LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,898.83 75.95	73.44
33 42 13 13-0040 LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,749.79 69.99	76.37
33 42 13 13-0041 LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,904.60 76.18	76.37
33 42 13 13-0042 LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,214.22 88.57	76.37
33 42 13 13-0043 LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,082.51 83.30	88.13
33 42 13 13-0044 LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,454.47 98.18	119.85
33 42 13 13-0045 LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,904.60 76.18	76.37
33 42 13 13-0046 LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,082.51 83.30	88.13
33 42 13 13-0047 LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,237.32 89.49	88.13
33 42 13 13-0048 LF 8' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,449.84 97.99	117.50
33 42 13 13-0049 LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,604.65 104.19	117.50
33 42 13 13-0050 LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,972.02 118.88	146.87
33 42 13 13-0051 LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,629.99 105.20	117.50
33 42 13 13-0052 LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,018.61 120.74	146.87
33 42 13 13-0053 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,984.92 119.40	146.87
33 42 13 13-0054 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,168.75 126.75	146.87
33 42 13 13-0055 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,410.32 136.41	176.25
33 42 13 13-0056 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,594.15 143.77	176.25
33 42 13 13-0057 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,778.00 151.12	176.25
33 42 13 13-0058 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,961.83 158.47	176.25
33 42 13 13-0059 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	3,957.02 158.28	205.62
33 42 13 13-0060 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,165.97 166.64	205.62
33 42 13 13-0061 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	4,583.95 183.36	205.62
33 42 13 13-0062 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	5,001.92 200.08	205.62
33 42 13 13-0063 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	5,988.50 239.54	235.00
33 42 13 13-0064 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	7,567.49 302.70	235.00

33 42 23 Headwalls and Endwalls for Stormwater Piping ^(33 42)

33 42 23 00-0001 Headwalls ^(33 42 23)

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 23 00-0002	Cast In Place Concrete Headwalls (33 42 23 00-0001)			
	Note: Includes concrete, forms, rebar (where required), finish and curing.			
33 42 23 00-0003	Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)			
	Note: Sized by pipe diameter.			
33 42 23 00-0004	EA	12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,733.82	776.82
33 42 23 00-0005	EA	15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,184.01	828.61
33 42 23 00-0006	EA	18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,853.55	1,085.35
33 42 23 00-0007	EA	24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,461.91	1,553.63
33 42 23 00-0008	EA	30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,201.71	2,071.51
33 42 23 00-0009	EA	36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	7,524.59	2,730.47
33 42 23 00-0010	EA	42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	10,358.61	3,766.34
33 42 23 00-0011	EA	48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	12,316.07	4,438.89
33 42 23 00-0012	EA	54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	14,815.23	5,403.99
33 42 23 00-0013	EA	60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	17,776.66	6,541.59
33 42 23 00-0014	Precast Concrete Headwalls (33 42 23 00-0001)			
33 42 23 00-0015	EA	12" Pipe, Precast Concrete Headwall	946.92	196.16
33 42 23 00-0016	EA	15" Pipe, Precast Concrete Headwall	979.61	207.06
33 42 23 00-0017	EA	18" Pipe, Precast Concrete Headwall	1,078.24	235.39
33 42 23 00-0018	EA	24" Pipe, Precast Concrete Headwall	1,191.24	250.65
33 42 23 00-0019	EA	30" Pipe, Precast Concrete Headwall	1,600.16	294.24
33 42 23 00-0020	EA	36" Pipe, Precast Concrete Headwall	1,797.43	305.13
33 42 23 00-0021	EA	42" Pipe, Precast Concrete Headwall	2,372.12	362.60
33 42 23 00-0022	EA	48" Pipe, Precast Concrete Headwall	2,619.21	399.49
33 42 23 00-0023	EA	54" Pipe, Precast Concrete Headwall	2,890.71	423.00
33 42 23 00-0024	EA	60" Pipe, Precast Concrete Headwall	3,280.36	423.00
33 42 23 00-0025	EA	72" Pipe, Precast Concrete Headwall	3,965.64	528.75
33 42 23 00-0026	EA	84" Pipe, Precast Concrete Headwall	5,619.46	634.49
33 42 23 00-0027	Precast Concrete Wingwalls (33 42 23 00-0001)			
33 42 23 00-0028	EA	18" ID Pipe (26" Hole) Precast Concrete Wingwall	5,931.64	2,093.82
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0029	EA	24" ID Pipe (32" Hole) Precast Concrete Wingwall	6,284.14	2,326.47
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0030	EA	30" ID Pipe (42" Hole) Precast Concrete Wingwall	6,871.64	2,714.21
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0031	EA	33" ID Pipe (46" Hole) Precast Concrete Wingwall	7,459.13	3,101.96
	Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.			
33 42 23 00-0032	EA	36" ID Pipe (50" Hole) Precast Concrete Wingwall	7,459.13	3,101.96
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0033	EA	44" ID Pipe (58" Hole) Precast Concrete Wingwall	7,694.12	3,257.05
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0034	EA	48" ID Pipe (62" Hole) Precast Concrete Wingwall	13,272.60	3,334.60
	Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0035	EA	52" ID Pipe (66" Hole) Precast Concrete Wingwall	13,625.10	3,567.25
	Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.			
33 42 23 00-0036	Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)			
33 42 23 00-0037	EA	34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate	3,758.51	822.49
33 42 26	End Sections for Stormwater Piping (33 42)			
33 42 26 16	Corrugated Metal End Sections for Stormwater Piping (33 42 26)			
33 42 26 16-0001	Corrugated Metal Pipe End Sections (33 42 26 16)			
33 42 26 16-0002	Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)			
33 42 26 16-0003	Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)			
	Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.			
33 42 26 16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	336.31	76.28
33 42 26 16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	393.27	81.73
33 42 26 16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	462.74	87.18
33 42 26 16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	564.87	95.35
33 42 26 16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	626.66	103.53
33 42 26 16-0009	Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)			
	Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.			
33 42 26 16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,032.12	117.15
33 42 26 16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,347.10	141.00
33 42 26 16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,091.12	164.50
33 42 26 16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,559.82	188.00
33 42 26 16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	3,044.90	235.00
33 42 26 16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	3,552.89	281.99



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0016		Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)	
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.			
33 42 26 16-0017	EA 12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	352.73	76.28
33 42 26 16-0018	EA 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	410.15	81.73
33 42 26 16-0019	EA 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	488.69	87.18
33 42 26 16-0020	EA 21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	596.03	95.35
33 42 26 16-0021	EA 24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	661.99	103.53
33 42 26 16-0022	EA 30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,140.61	117.15
33 42 26 16-0023	EA 36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,482.78	141.00
33 42 26 16-0024	EA 42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,385.29	164.50
33 42 26 16-0025	EA 48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,939.44	188.00
33 42 26 16-0026	EA 54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,428.80	235.00
33 42 26 16-0027	EA 60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,768.79	281.99
33 42 26 16-0028	EA 66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	5,371.22	423.00
33 42 26 16-0029	EA 72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	6,258.00	563.99
33 42 26 16-0030	EA 78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	6,820.30	605.12
33 42 26 16-0031	EA 84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	7,396.69	646.24
33 42 26 16-0032		Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)	
33 42 26 16-0033	EA Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	45.36	
33 42 26 16-0034	EA Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	50.80	
33 42 26 16-0035	EA Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	57.46	
33 42 26 16-0036	EA Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	62.50	
33 42 26 16-0037	EA Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	70.08	
33 42 26 16-0038	EA Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	123.86	
33 42 26 16-0039	EA Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	133.24	
33 42 26 16-0040	EA Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	184.00	
33 42 26 16-0041	EA Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	196.62	
33 42 26 16-0042	EA Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	240.59	
33 42 26 16-0043	EA Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	245.98	
33 42 26 16-0044	EA Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	261.53	
33 42 26 16-0045	EA Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	294.24	
33 42 26 16-0046	EA Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	329.37	
33 42 26 16-0047	EA 84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	336.72	
33 42 26 16-0048		Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)	
33 42 26 16-0049		Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)	
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.			
33 42 26 16-0050	EA 17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	393.27	81.73
33 42 26 16-0051	EA 21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	462.74	87.18
33 42 26 16-0052	EA 24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	564.87	95.35
33 42 26 16-0053	EA 28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	626.66	103.53
33 42 26 16-0054		Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)	
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.			
33 42 26 16-0055	EA 17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	379.10	81.73
33 42 26 16-0056	EA 21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	436.53	87.18
33 42 26 16-0057	EA 24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	489.83	95.35
33 42 26 16-0058	EA 28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	555.01	103.53
33 42 26 16-0059	EA 35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	827.84	117.15
33 42 26 16-0060	EA 42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,225.30	141.00
33 42 26 16-0061	EA 49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,929.63	164.50
33 42 26 16-0062	EA 57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	2,452.21	188.00
33 42 26 16-0063		Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)	
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.			
33 42 26 16-0064	EA 17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	386.29	81.73
33 42 26 16-0065	EA 21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	452.16	87.18
33 42 26 16-0066	EA 24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	514.27	95.35
33 42 26 16-0067	EA 28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	583.98	103.53
33 42 26 16-0068	EA 35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	877.09	117.15
33 42 26 16-0069	EA 42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,292.47	141.00
33 42 26 16-0070	EA 49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,037.08	164.50
33 42 26 16-0071	EA 57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,575.87	188.00
33 42 26 16-0072	EA 64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,095.71	235.00
33 42 26 16-0073	EA 71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	4,080.44	281.99
33 42 26 16-0074	EA 77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	5,683.25	423.00
33 42 26 16-0075	EA 83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	6,253.83	563.99
33 42 26 16-0076		Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section (33 42 26 16-0048)	
33 42 26 16-0077	EA Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	50.80	
33 42 26 16-0078	EA Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	57.46	
33 42 26 16-0079	EA Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	62.50	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	70.08	
33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	123.86	
33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	133.24	
33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	184.00	
33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	204.75	
33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	240.59	
33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	249.21	
33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	287.90	
33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	323.27	
33 42 26 16-0089 Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0090 Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)		
33 42 26 16-0091 EA 12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	527.11	76.28
33 42 26 16-0092 EA 15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	610.52	81.73
33 42 26 16-0093 EA 18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	728.61	87.18
33 42 26 16-0094 EA 21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	909.53	95.35
33 42 26 16-0095 EA 24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,198.27	103.53
33 42 26 16-0096 EA 30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,815.70	117.15
33 42 26 16-0097 EA 36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	2,481.95	141.00
33 42 26 16-0098 EA 36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,106.19	141.00
33 42 26 16-0099 EA 42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,969.17	164.50
33 42 26 16-0100 EA 48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	5,687.70	188.00
33 42 26 16-0101 EA 54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	6,287.27	235.00
33 42 26 16-0102 EA 60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,490.95	281.99
33 42 26 16-0103 EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	9,567.49	423.00
33 42 26 16-0104 EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,157.05	563.99
33 42 26 16-0105 EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,190.62	605.12
33 42 26 16-0106 EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,859.62	646.24
33 42 26 16-0107 EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	17,679.37	704.99
33 42 26 16-0108 EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	19,579.81	763.74
33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)		
33 42 26 16-0110 EA Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	82.53	
33 42 26 16-0111 EA Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	87.67	
33 42 26 16-0112 EA Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	95.44	
33 42 26 16-0113 EA Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	107.78	
33 42 26 16-0114 EA Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	114.15	
33 42 26 16-0115 EA Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	147.43	
33 42 26 16-0116 EA Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	175.21	
33 42 26 16-0117 EA Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	185.63	
33 42 26 16-0118 EA Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	203.69	
33 42 26 16-0119 EA Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	230.27	
33 42 26 16-0120 EA Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	272.88	
33 42 26 16-0121 EA Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	387.59	
33 42 26 16-0122 EA Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	415.07	
33 42 26 16-0123 EA Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	521.00	
33 42 26 16-0124 EA Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	563.18	
33 42 26 16-0125 EA Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	599.85	
33 42 26 16-0126 EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	638.55	
33 42 26 16-0127 EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	677.52	
33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)		
33 42 26 16-0130 EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	630.69	81.73
33 42 26 16-0131 EA 21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	777.79	87.18
33 42 26 16-0132 EA 24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	844.30	95.35
33 42 26 16-0133 EA 28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	910.75	103.53
33 42 26 16-0134 EA 35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,384.41	117.15
33 42 26 16-0135 EA 42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,510.64	141.00
33 42 26 16-0136 EA 42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,668.91	141.00
33 42 26 16-0137 EA 49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,578.81	164.50
33 42 26 16-0138 EA 57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	5,535.68	188.00
33 42 26 16-0139 EA 64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	6,328.54	235.00
33 42 26 16-0140 EA 71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,652.78	281.99
33 42 26 16-0141 EA 77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	12,843.73	423.00
33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	13,422.88	563.99
33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	14,619.47	605.12
33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	15,252.02	646.24
33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	16,624.53	704.99
33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	17,603.58	763.74
33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)		
33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	87.67	
33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	95.44	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 26 16-0150	EA Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	100.49		
33 42 26 16-0151	EA Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	110.14		
33 42 26 16-0152	EA Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	124.50		
33 42 26 16-0153	EA Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	162.02		
33 42 26 16-0154	EA Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	178.65		
33 42 26 16-0155	EA Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	203.69		
33 42 26 16-0156	EA Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	230.27		
33 42 26 16-0157	EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	272.88		
33 42 26 16-0158	EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	350.62		
33 42 26 16-0159	EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	446.02		
33 42 26 16-0160	EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	598.38		
33 42 26 16-0161	EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	680.97		
33 42 26 16-0162	EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	712.20		
33 42 26 16-0163	EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	737.15		
33 42 26 16-0164	EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	768.09		
33 42 26 16-0165	Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)			
33 42 26 16-0166	4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)			
33 42 26 16-0167	EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	824.47		81.73
33 42 26 16-0168	EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,071.56		87.18
33 42 26 16-0169	EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,318.23		95.35
33 42 26 16-0170	EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,582.73		103.53
33 42 26 16-0171	EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,670.37		117.15
33 42 26 16-0172	EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,192.13		141.00
33 42 26 16-0173	EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	3,500.83		164.50
33 42 26 16-0174	3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)			
	Note: Includes nut and bolt set.			
33 42 26 16-0175	EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	597.07		
33 42 26 16-0176	EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	1,218.17		
33 42 26 16-0177	EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	1,336.88		
33 42 26 16-0178	EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	1,388.68		
33 42 26 16-0179	6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)			
33 42 26 16-0180	EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	865.46		81.73
33 42 26 16-0181	EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,145.28		87.18
33 42 26 16-0182	EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,535.19		95.35
33 42 26 16-0183	EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,808.22		103.53
33 42 26 16-0184	EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,149.07		117.15
33 42 26 16-0185	EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,614.65		141.00
33 42 26 16-0186	EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	4,029.47		164.50
33 42 26 16-0187	3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)			
	Note: Includes nut and bolt set.			
33 42 26 16-0188	EA 3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	1,177.82		
33 42 26 16-0189	EA 3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	1,248.14		
33 42 26 16-0190	EA 3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	1,372.30		
33 42 26 16-0191	EA 3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	1,437.72		
33 42 26 16-0192	Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42 26 16-0165)			
33 42 26 16-0193	EA Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section.....	98.53		
33 42 26 16-0194	EA Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section.....	111.20		
33 42 26 16-0195	EA Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section.....	121.10		
33 42 26 16-0196	EA Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section.....	135.46		
33 42 26 16-0197	EA Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section.....	208.40		
33 42 26 16-0198	EA Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section.....	223.73		
33 42 26 16-0199	EA Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section.....	302.94		
33 42 26 16-0200	Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)			
33 42 26 16-0201	4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)			
33 42 26 16-0202	EA 21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	985.21		87.18
33 42 26 16-0203	EA 24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,243.85		95.35
33 42 26 16-0204	EA 28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,477.39		103.53
33 42 26 16-0205	EA 35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	2,826.88		117.15
33 42 26 16-0206	3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200)			
	Note: Includes nut and bolt set.			

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0207 EA 3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	714.18	
33 42 26 16-0208 EA 3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,318.83	
33 42 26 16-0209 EA 3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,388.68	
33 42 26 16-0210 EA 3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	2,053.74	
33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0212 EA Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section.....	99.42	
33 42 26 16-0213 EA Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section.....	113.22	
33 42 26 16-0214 EA Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section.....	123.46	
33 42 26 16-0215 EA Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section.....	145.81	
33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)		
33 42 26 19-0001 Corrugated High-Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)		
33 42 26 19-0002 EA 4" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	51.68	22.20
33 42 26 19-0003 EA 6" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	85.54	33.29
33 42 26 19-0004 EA 8" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	111.35	41.62
33 42 26 19-0005 EA 10" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	176.77	66.59
33 42 26 19-0006 EA 12" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	204.38	74.91
33 42 26 19-0007 EA 15" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	218.21	80.46
33 42 26 19-0008 EA 18" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	250.53	88.78
33 42 26 19-0009 EA 24" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	311.33	105.43
33 42 26 19-0010 EA 30" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	511.29	119.30
33 42 26 19-0011 EA 36" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	607.22	133.17
33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)		
33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)		
33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0003 EA 12" Diameter Pipe, Precast Concrete End Section.....	767.90	127.82
33 42 26 23-0004 EA 15" Diameter Pipe, Precast Concrete End Section.....	1,031.02	158.23
33 42 26 23-0005 EA 18" Diameter Pipe, Precast Concrete End Section.....	1,276.51	200.29
33 42 26 23-0006 EA 21" Diameter Pipe, Precast Concrete End Section.....	1,464.75	239.52
33 42 26 23-0007 EA 24" Diameter Pipe, Precast Concrete End Section.....	1,556.42	277.24
33 42 26 23-0008 EA 27" Diameter Pipe, Precast Concrete End Section.....	1,963.03	350.14
33 42 26 23-0009 EA 30" Diameter Pipe, Precast Concrete End Section.....	2,433.70	525.92
33 42 26 23-0010 EA 36" Diameter Pipe, Precast Concrete End Section.....	3,004.91	663.63
33 42 26 23-0011 EA 42" Diameter Pipe, Precast Concrete End Section.....	3,635.59	832.47
33 42 26 23-0012 EA 48" Diameter Pipe, Precast Concrete End Section.....	3,984.64	938.81
33 42 26 23-0013 EA 54" Diameter Pipe, Precast Concrete End Section.....	4,346.28	1,051.60
33 42 26 23-0014 EA 60" Diameter Pipe, Precast Concrete End Section.....	4,717.05	1,169.11
33 42 26 23-0015 EA 66" Diameter Pipe Precast Concrete End Section.....	4,685.20	929.01
33 42 26 23-0016 EA 72" Diameter Pipe Precast Concrete End Section.....	5,364.81	1,161.24
33 42 26 23-0017 EA 78" Diameter Pipe Precast Concrete End Section.....	6,377.51	1,451.56
33 42 26 23-0018 EA 84" Diameter Pipe Precast Concrete End Section.....	7,545.96	1,741.86
33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0020 EA 12" Diameter Pipe, Flared Precast Concrete End Section.....	968.15	136.89
33 42 26 23-0021 EA 15" Diameter Pipe, Flared Precast Concrete End Section.....	1,165.89	170.61
33 42 26 23-0022 EA 18" Diameter Pipe, Flared Precast Concrete End Section.....	1,415.46	215.97
33 42 26 23-0023 EA 21" Diameter Pipe, Flared Precast Concrete End Section.....	1,617.47	258.27
33 42 26 23-0024 EA 24" Diameter Pipe, Flared Precast Concrete End Section.....	1,973.60	298.92
33 42 26 23-0025 EA 27" Diameter Pipe, Flared Precast Concrete End Section.....	2,380.63	477.40
33 42 26 23-0026 EA 30" Diameter Pipe, Flared Precast Concrete End Section.....	2,477.56	657.29
33 42 26 23-0027 EA 36" Diameter Pipe, Flared Precast Concrete End Section.....	3,347.19	829.54
33 42 26 23-0028 EA 42" Diameter Pipe, Flared Precast Concrete End Section.....	4,016.79	1,040.80
33 42 26 23-0029 EA 48" Diameter Pipe, Flared Precast Concrete End Section.....	4,346.57	1,173.81
33 42 26 23-0030 EA 54" Diameter Pipe, Flared Precast Concrete End Section.....	4,861.71	1,314.69
33 42 26 23-0031 EA 60" Diameter Pipe, Flared Precast Concrete End Section.....	5,386.54	1,460.27
33 42 26 23-0032 EA 66" Diameter Pipe, Flared Precast Concrete End Section.....	6,282.67	1,682.46
33 42 26 23-0033 EA 72" Diameter Pipe, Flared Precast Concrete End Section.....	7,327.56	1,877.86
33 42 26 23-0034 EA 78" Diameter Pipe, Flared Precast Concrete End Section.....	8,309.11	2,112.50
33 42 26 23-0035 EA 84" Diameter Pipe, Flared Precast Concrete End Section.....	9,584.59	2,346.91
33 42 31 Stormwater Area Drains and Inlets (33 42)		
33 42 31 00-0001 Storm Drains (33 42 31) See CSI section 33 05 61 00-0001 for manhole structures.		
33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001) Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.		
33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002) Note: Inside dimensions.		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0005 EA 2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,990.96	382.08
33 42 31 00-0006 EA 3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,373.36	447.68
33 42 31 00-0007 EA 4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,755.75	513.15
33 42 31 00-0008 EA 5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,138.13	578.76
33 42 31 00-0009 EA 6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,520.52	644.24
33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0011 EA 2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,509.45	379.77
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,117.40	506.37
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,999.30	690.51
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,856.63	805.58
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,556.14	920.67
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,694.40	414.30
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,730.30	575.42
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,579.76	748.04
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,289.32	863.13
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	6,713.81	1,104.80
33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)		
Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0024 EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,498.36	461.94
33 42 31 00-0025 EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,649.74	491.17
33 42 31 00-0026 EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,899.02	527.55
33 42 31 00-0027 EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,252.08	583.94
33 42 31 00-0028 EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,510.92	621.57
33 42 31 00-0029 EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,676.34	651.83
33 42 31 00-0030 EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,935.42	689.46
33 42 31 00-0031 EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,096.84	719.85
33 42 31 00-0032 EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,358.03	757.37
33 42 31 00-0033 EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,521.33	787.75
33 42 31 00-0034 EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,780.29	825.38
33 42 31 00-0035 VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	5,597.56	103.12
33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0037 EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,874.00	533.99
33 42 31 00-0038 EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,066.14	571.51
33 42 31 00-0039 EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,325.26	609.14
33 42 31 00-0040 EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,737.78	674.62
33 42 31 00-0041 EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,021.89	717.21
33 42 31 00-0042 EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,212.36	752.54
33 42 31 00-0043 EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,500.25	795.11
33 42 31 00-0044 EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,690.71	830.44
33 42 31 00-0045 EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,976.83	873.02
33 42 31 00-0046 EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,166.93	908.35
33 42 31 00-0047 EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,453.16	950.94
33 42 31 00-0048 VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,817.67	118.89
33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,276.36	610.86
33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,478.33	649.65
33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,776.09	695.57
33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,248.77	770.25
33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,561.81	817.79
33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,778.97	858.17
33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,092.01	905.71
33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,309.51	946.11
33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,622.56	993.63
33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,839.71	1,034.03
33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	6,152.76	1,081.67
33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	7,699.05	135.22
33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,793.98	708.34
33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,030.70	748.39
33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,361.55	800.17
33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,900.75	885.11
33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,249.35	938.74
33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,502.16	985.11
33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,850.41	1,038.75

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,103.24	1,085.24
33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,451.83	1,138.86
33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,702.53	1,185.25
33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,052.91	1,238.88
33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	881.67	154.91
33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0076 EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	4,882.21	898.46
33 42 31 00-0077 EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,482.82	992.83
33 42 31 00-0078 EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,860.81	1,051.63
33 42 31 00-0079 EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,140.90	1,103.19
33 42 31 00-0080 EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,514.99	1,161.89
33 42 31 00-0081 EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,797.20	1,213.45
33 42 31 00-0082 EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,173.08	1,272.26
33 42 31 00-0083 EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,451.40	1,323.81
33 42 31 00-0084 EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,829.39	1,382.50
33 42 31 00-0085 VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,389.14	172.85
33 42 31 00-0086 5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0087 EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,428.36	1,001.92
33 42 31 00-0088 EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,318.59	1,134.16
33 42 31 00-0089 EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,738.29	1,199.52
33 42 31 00-0090 EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,060.09	1,258.09
33 42 31 00-0091 EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,481.56	1,323.92
33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,805.47	1,382.50
33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,225.16	1,448.33
33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,546.96	1,506.91
33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,966.66	1,572.74
33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,120.84	196.57
33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	6,003.47	1,110.21
33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,984.82	1,255.33
33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,434.60	1,326.46
33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,786.83	1,390.33
33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,234.48	1,461.45
33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,588.49	1,525.32
33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	9,036.50	1,596.44
33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	9,388.38	1,660.31
33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	9,838.16	1,731.43
33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	1,229.82	216.47
33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	6,603.60	1,223.69
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,967.19	1,417.72
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,462.99	1,496.43
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,862.89	1,567.90
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,358.69	1,646.50
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,758.59	1,718.08
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,254.39	1,796.68
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,654.28	1,868.15
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,151.86	1,946.87
33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,393.92	243.40
33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	7,231.12	1,342.11
33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,724.57	1,553.86
33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,251.14	1,638.10
33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,680.17	1,714.98
33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,208.74	1,799.10
33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,637.75	1,876.10
33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	11,164.33	1,960.22
33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	11,595.47	2,037.21
33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	12,121.94	2,121.33
33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,515.30	265.15
33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	8,214.09	1,506.33
33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,512.84	1,695.52
33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,068.42	1,785.18
33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,530.33	1,867.58
33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,087.91	1,957.23
33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,549.84	2,039.63
33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	12,105.40	2,129.28



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0138	EA	7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin		12,567.32	2,211.68
33 42 31 00-0139	EA	8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin		13,125.03	2,301.33
33 42 31 00-0140	VLF	>8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin		1,640.58	287.71
33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)					
33 42 31 00-0142	EA	4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin		8,927.26	1,638.91
33 42 31 00-0143	EA	4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		10,329.98	1,842.72
33 42 31 00-0144	EA	5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		10,916.80	1,937.78
33 42 31 00-0145	EA	5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		11,409.49	2,025.70
33 42 31 00-0146	EA	6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		11,996.20	2,120.77
33 42 31 00-0147	EA	6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		12,484.63	2,208.69
33 42 31 00-0148	EA	7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		13,075.58	2,303.75
33 42 31 00-0149	EA	7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		13,568.27	2,391.67
33 42 31 00-0150	EA	8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		14,144.75	2,486.73
33 42 31 00-0151	VLF	>8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin		1,769.38	310.84
33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)					
Note: Inside dimensions.					
33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0154	EA	4' Deep, 1'-6" Diameter Precast Catch Basins		749.00	239.48
33 42 31 00-0155	EA	6' Deep, 1'-6" Diameter Precast Catch Basins		1,045.65	359.22
33 42 31 00-0156	EA	8' Deep, 1'-6" Diameter Precast Catch Basins		1,328.28	466.98
33 42 31 00-0157	EA	10' Deep, 1'-6" Diameter Precast Catch Basins		1,589.07	552.00
33 42 31 00-0158	EA	12' Deep, 1'-6" Diameter Precast Catch Basins		1,960.14	700.46
33 42 31 00-0159	EA	14' Deep, 1'-6" Diameter Precast Catch Basins		2,243.50	808.23
33 42 31 00-0160	VLF	Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins		156.56	53.88
33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0162	EA	4' Deep, 2' Diameter Precast Catch Basin		852.50	266.42
33 42 31 00-0163	EA	6' Deep, 2' Diameter Precast Catch Basin		1,183.69	395.13
33 42 31 00-0164	EA	8' Deep, 2' Diameter Precast Catch Basin		1,497.62	520.86
33 42 31 00-0165	EA	10' Deep, 2' Diameter Precast Catch Basin		1,785.72	607.67
33 42 31 00-0166	EA	12' Deep, 2' Diameter Precast Catch Basin		2,216.50	778.30
33 42 31 00-0167	EA	14' Deep, 2' Diameter Precast Catch Basin		2,533.70	898.03
33 42 31 00-0168	VLF	Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin		176.88	64.66
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0170	EA	4' Deep, 3' Diameter Precast Catch Basin		1,118.96	314.31
33 42 31 00-0171	EA	6' Deep, 3' Diameter Precast Catch Basin		1,532.96	464.59
33 42 31 00-0172	EA	8' Deep, 3' Diameter Precast Catch Basin		1,930.85	613.66
33 42 31 00-0173	EA	10' Deep, 3' Diameter Precast Catch Basin		2,404.65	766.32
33 42 31 00-0174	EA	12' Deep, 3' Diameter Precast Catch Basin		2,842.23	913.60
33 42 31 00-0175	EA	14' Deep, 3' Diameter Precast Catch Basin		3,265.56	1,063.27
33 42 31 00-0176	VLF	Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin		225.10	75.95
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0178	EA	4' Deep, 4' Diameter Precast Catch Basin		1,348.71	349.64
33 42 31 00-0179	EA	6' Deep, 4' Diameter Precast Catch Basin		1,758.03	478.95
33 42 31 00-0180	EA	8' Deep, 4' Diameter Precast Catch Basin		2,366.57	718.43
33 42 31 00-0181	EA	10' Deep, 4' Diameter Precast Catch Basin		2,953.28	898.03
33 42 31 00-0182	EA	12' Deep, 4' Diameter Precast Catch Basin		3,493.46	1,077.64
33 42 31 00-0183	EA	14' Deep, 4' Diameter Precast Catch Basin		4,017.93	1,257.25
33 42 31 00-0184	VLF	Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin		276.31	89.81
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0186	EA	4' Deep, 5' Diameter Precast Catch Basin		1,817.01	478.95
33 42 31 00-0187	EA	6' Deep, 5' Diameter Precast Catch Basin		2,497.64	718.43
33 42 31 00-0188	EA	8' Deep, 5' Diameter Precast Catch Basin		3,181.81	957.90
33 42 31 00-0189	EA	10' Deep, 5' Diameter Precast Catch Basin		3,894.71	1,197.38
33 42 31 00-0190	EA	12' Deep, 5' Diameter Precast Catch Basin		4,598.05	1,436.85
33 42 31 00-0191	EA	14' Deep, 5' Diameter Precast Catch Basin		5,353.53	1,676.33
33 42 31 00-0192	VLF	Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin		367.68	119.74
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0194	EA	4' Deep, 6' Diameter Precast Catch Basin		2,661.47	718.43
33 42 31 00-0195	EA	6' Deep, 6' Diameter Precast Catch Basin		3,624.53	1,077.64
33 42 31 00-0196	EA	8' Deep, 6' Diameter Precast Catch Basin		4,652.02	1,436.85
33 42 31 00-0197	EA	10' Deep, 6' Diameter Precast Catch Basin		5,798.65	1,796.07
33 42 31 00-0198	EA	12' Deep, 6' Diameter Precast Catch Basin		6,912.50	2,155.29
33 42 31 00-0199	EA	14' Deep, 6' Diameter Precast Catch Basin		8,002.95	2,514.49
33 42 31 00-0200	VLF	Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin		548.24	179.60

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)				
33 42 31 00-0202	EA	Single Or Double Wing Slab Top With Throat.....	1,661.91	778.30
33 42 31 00-0203	EA	4' x 4' Weir Box, Precast Catch Basin.....	721.20	95.79
33 42 31 00-0204	EA	4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	413.52	101.78
33 42 31 00-0205	EA	3' Diameter, Up To 6" High, Precast Extension Ring.....	518.99	149.67
		For Each Additional Inch In Height, Add	61.53	
33 42 31 00-0206	EA	4' Diameter, Up To 6" High, Precast Extension Ring.....	612.70	179.60
		For Each Additional Inch In Height, Add	72.16	
33 42 31 00-0207	EA	5' Diameter, Up To 6" High, Precast Extension Ring.....	714.59	209.55
		For Each Additional Inch In Height, Add	84.21	
33 42 31 00-0208	EA	6' Diameter, Up To 6" High, Precast Extension Ring.....	900.62	299.34
		For Each Additional Inch In Height, Add	100.26	
33 42 31 00-0209	EA	Adjust Existing Catch Basin Inlet Grate To Match Grade.....	718.38	
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)				
33 42 31 00-0211	EA	Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser.....	440.52	
33 42 31 00-0212	EA	>860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	491.77	
33 42 31 00-0213	EA	>1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	552.71	
33 42 31 00-0214	EA	Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	474.24	
33 42 31 00-0215	EA	>860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	528.93	
33 42 31 00-0216	EA	>1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	596.47	
33 42 31 00-0217	EA	Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	524.61	
33 42 31 00-0218	EA	>860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	573.18	
33 42 31 00-0219	EA	>1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	640.93	
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)				
		Note: Inside span.		
33 42 31 00-0221	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	5,236.67	911.23
33 42 31 00-0222	EA	6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	5,980.39	1,039.89
33 42 31 00-0223	EA	6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	6,819.89	1,180.18
33 42 31 00-0224	EA	7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	8,181.32	1,415.76
33 42 31 00-0225	EA	8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	9,956.93	1,709.23
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)				
		Note: Inside dimensions.		
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)				
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)				
		Note: Yard inlet.		
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)				
33 42 31 00-0230	EA	24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	926.40	83.82
33 42 31 00-0231	EA	30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,088.79	101.78
33 42 31 00-0232	EA	36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,251.17	119.74
33 42 31 00-0233	EA	42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,415.05	138.45
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)				
33 42 31 00-0235	EA	6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	228.24	
33 42 31 00-0236	EA	12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	372.66	
33 42 31 00-0237	EA	18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	529.05	
33 42 31 00-0238	EA	24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	685.44	
33 42 31 00-0239	EA	30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	841.85	
33 42 31 00-0240	EA	36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	998.25	
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)				
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)				
33 42 31 00-0243	EA	36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,891.94	235.00
33 42 31 00-0244	EA	42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,127.44	271.72
33 42 31 00-0245	EA	48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,362.93	308.43
33 42 31 00-0246	EA	54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,598.61	345.24
33 42 31 00-0247	EA	60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,834.28	382.04
33 42 31 00-0248	EA	66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	3,069.95	418.86
33 42 31 00-0249	EA	72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	3,305.63	455.66
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)				
33 42 31 00-0251	EA	6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	446.62	
33 42 31 00-0252	EA	12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	725.61	
33 42 31 00-0253	EA	18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	785.52	
33 42 31 00-0254	EA	24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,007.46	
33 42 31 00-0255	EA	30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,229.38	
33 42 31 00-0256	EA	36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,442.35	
33 42 31 00-0257	EA	42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,677.85	
33 42 31 00-0258	EA	48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,913.34	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0259	EA	54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,149.02	
33 42 31 00-0260	EA	60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,384.69	
33 42 31 00-0261	EA	66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,620.36	
33 42 31 00-0262	EA	72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,856.04	
33 42 31 00-0263		30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264		30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		
33 42 31 00-0265	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,820.54	258.50
33 42 31 00-0266	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,056.02	298.88
33 42 31 00-0267	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,291.47	339.28
33 42 31 00-0268	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,527.14	379.77
33 42 31 00-0269	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,762.80	420.25
33 42 31 00-0270	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,998.46	460.73
33 42 31 00-0271	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	3,234.11	501.23
33 42 31 00-0272		30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
33 42 31 00-0273	EA	6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	442.34	
33 42 31 00-0274	EA	12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	710.78	
33 42 31 00-0275	EA	18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	771.90	
33 42 31 00-0276	EA	24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	988.86	
33 42 31 00-0277	EA	30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,205.83	
33 42 31 00-0278	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,421.62	
33 42 31 00-0279	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,653.84	
33 42 31 00-0280	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,884.91	
33 42 31 00-0281	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,117.14	
33 42 31 00-0282	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,348.20	
33 42 31 00-0283	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,580.44	
33 42 31 00-0284	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,812.67	
33 42 31 00-0285		42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0286		42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)		
33 42 31 00-0287	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,168.44	281.99
33 42 31 00-0288	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,445.12	327.82
33 42 31 00-0289	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,721.80	374.82
33 42 31 00-0290	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,997.29	420.64
33 42 31 00-0291	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,273.98	467.64
33 42 31 00-0292	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,550.67	513.46
33 42 31 00-0293	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,826.16	559.29
33 42 31 00-0294		42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)		
33 42 31 00-0295	EA	6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	489.63	
33 42 31 00-0296	EA	12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	803.01	
33 42 31 00-0297	EA	18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	865.88	
33 42 31 00-0298	EA	24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,112.59	
33 42 31 00-0299	EA	30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,359.31	
33 42 31 00-0300	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,606.02	
33 42 31 00-0301	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,868.60	
33 42 31 00-0302	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,131.19	
33 42 31 00-0303	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,393.77	
33 42 31 00-0304	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,656.35	
33 42 31 00-0305	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,918.92	
33 42 31 00-0306	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	3,181.51	
33 42 31 00-0307		42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)		
33 42 31 00-0308	EA	42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	1,228.10	176.25
33 42 31 00-0309		48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0310		48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)		
33 42 31 00-0311	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,087.41	313.33
33 42 31 00-0312	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,458.50	364.83
33 42 31 00-0313	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,829.60	416.34
33 42 31 00-0314	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,200.32	467.65
33 42 31 00-0315	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,571.05	518.96
33 42 31 00-0316	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,941.78	570.28
33 42 31 00-0317	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	5,312.50	621.59
33 42 31 00-0318		48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)		
33 42 31 00-0319	EA	6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	491.35	
33 42 31 00-0320	EA	12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	790.77	
33 42 31 00-0321	EA	18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,156.78	
33 42 31 00-0322	EA	24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,522.79	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0323 EA 30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,869.23	
33 42 31 00-0324 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,235.24	
33 42 31 00-0325 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,606.33	
33 42 31 00-0326 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,977.43	
33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,348.16	
33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,718.88	
33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	4,089.61	
33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	4,460.33	
33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab	1,334.83	190.93
33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,554.99	394.79
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,961.86	460.76
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,368.72	526.72
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,774.85	592.31
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	5,181.00	657.91
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	5,587.13	723.51
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	5,993.26	789.10
33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	538.14	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	845.98	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,252.52	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,659.06	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,032.71	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,439.25	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,846.11	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,252.98	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,659.11	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	4,065.25	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	4,471.39	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	4,877.52	
33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,483.82	213.85
33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,447.55	532.27
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,961.86	620.39
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,476.17	707.34
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,989.31	795.47
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	6,503.61	882.41
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	7,016.74	969.36
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	7,532.22	1,057.48
33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0357)		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	718.76	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,110.87	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,616.95	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,123.03	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,595.05	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,101.12	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,615.44	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,129.75	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,642.88	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	5,157.19	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	5,670.31	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	6,184.63	
33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0357)		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab	2,030.78	235.00
33 42 31 00-0381 Frames And Grates For Inlets (33 42 31 00-0226)		
33 42 31 00-0382 Inlet Frames And Grates (33 42 31 00-0381)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0383	EA		24" x 24", Heavy-Duty Inlet Grate..... Note: For type A, B, D, or E inlets.	437.22	54.49
33 42 31 00-0384	EA		47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT)..... Note: For type A, B, D, or E inlets.	567.72	54.49
33 42 31 00-0385	EA		47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT)..... Note: Includes legend: Dump No Waste "Drains To Waterways".	567.72	54.49
33 42 31 00-0386	EA		Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT)..... Note: Legend: Dump No Waste "Drains to Waterways"	567.72	54.49
33 42 31 00-0387	EA		Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362).....	622.34	54.49
33 42 31 00-0388	EA		Type B Inlet Dirt Plate (US Foundry 5217 BK).....	458.24	108.98
33 42 31 00-0389	EA		Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....	534.70	108.98
33 42 31 00-0390	EA		Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4)..... Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".	665.65	136.22
33 42 31 00-0391	EA		1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	567.35	136.22
33 42 31 00-0392	EA		2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	578.27	136.22
33 42 31 00-0393	EA		2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	600.11	136.22
33 42 31 00-0394	EA		3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	621.96	136.22
33 42 31 00-0395	EA		2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	600.11	136.22
33 42 31 00-0396	EA		2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	621.96	136.22
33 42 31 00-0397	EA		3" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	643.80	136.22
33 42 31 00-0398	EA		2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	927.79	136.22
33 42 31 00-0399	EA		2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	971.48	136.22
33 42 31 00-0400	EA		3" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	1,015.17	136.22
33 42 31 00-0401	EA		2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....	687.49	136.22
33 42 31 00-0402	EA		6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6).....	621.96	136.22
33 42 31 00-0403	EA		8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8).....	621.96	136.22
33 42 31 00-0404	EA		6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....	1,279.19	136.22
33 42 31 00-0405	EA		8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....	1,279.19	136.22
33 42 31 00-0406	EA		Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....	518.14	149.84
33 42 31 00-0407	EA		6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	725.67	149.84
33 42 31 00-0408	EA		8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	725.67	149.84
33 42 31 00-0409	EA		10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	802.12	149.84
33 42 31 00-0410	EA		Type B Inlet Frame (US Foundry 5216 FRM).....	922.27	149.84
33 42 31 00-0411	EA		Type D Inlet Frame (US Foundry 2999 FRM).....	791.20	149.84
33 42 31 00-0412	EA		Type B Inlet Frame (Campbell Foundry 2618-0202).....	1,129.80	149.84
33 42 31 00-0413	EA		Type D Inlet Frame (Campbell Foundry 2617-0002).....	998.73	149.84
33 42 31 00-0414	EA		Type A Inlet, Single Frame And Grate (US Foundry 52340).....	1,287.86	217.95
33 42 31 00-0415	EA		Type E Inlet, Single Frame And Grate (US Foundry 52342).....	2,074.28	217.95
33 42 31 00-0416	EA		Type A Inlet, Single Frame And Grate (General Foundries 52340).....	1,255.09	217.95
33 42 31 00-0417	EA		Type E Inlet, Double Frame And Grate (General Foundries 52342).....	1,971.61	217.95
33 42 31 00-0418	EA		Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....	2,106.54	326.93
33 42 31 00-0419	EA		Heavy-Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	2,159.51	435.91
33 42 31 00-0420	EA		6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....	2,368.18	435.91
33 42 31 00-0421	EA		8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	2,368.18	435.91
33 42 31 00-0422	EA		6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....	2,095.11	435.91
33 42 31 00-0423	EA		8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....	2,095.11	435.91
33 42 31 00-0424	EA		Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198).....	2,455.56	435.91
33 42 31 00-0425			Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)		
33 42 31 00-0426			Type OS Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0427	EA		3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,824.28	
33 42 31 00-0428	EA		4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,281.15	
33 42 31 00-0429	EA		5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,705.32	
33 42 31 00-0430	EA		6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,096.80	
33 42 31 00-0431	EA		7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,455.60	
33 42 31 00-0432	EA		8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,781.70	
33 42 31 00-0433	EA		8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,506.54	
33 42 31 00-0434	EA		10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,585.25	
33 42 31 00-0435	EA		12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,580.89	
33 42 31 00-0436	EA		14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,495.83	
33 42 31 00-0437	EA		16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,376.20	
33 42 31 00-0438	EA		18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,185.53	
33 42 31 00-0439	EA		20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,923.84	
33 42 31 00-0440			Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0441	EA		3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,845.83	
33 42 31 00-0442	EA		4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,272.82	
33 42 31 00-0443	EA		5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,667.11	
33 42 31 00-0444	EA		6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,028.71	
33 42 31 00-0445	EA		7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,356.43	
33 42 31 00-0446	EA		8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,652.66	
33 42 31 00-0447	EA		8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,326.25	
33 42 31 00-0448	EA		10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,379.74	
33 42 31 00-0449	EA		12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,350.15	
33 42 31 00-0450	EA		14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,238.66	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0451 EA 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,097.15	
33 42 31 00-0452 EA 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,884.62	
33 42 31 00-0453 EA 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,601.08	
33 42 31 00-0454 Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0455 EA 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,787.25	
33 42 31 00-0456 EA 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,186.96	
33 42 31 00-0457 EA 5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,552.78	
33 42 31 00-0458 EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,887.11	
33 42 31 00-0459 EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,187.55	
33 42 31 00-0460 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,455.30	
33 42 31 00-0461 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,145.98	
33 42 31 00-0462 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,173.03	
33 42 31 00-0463 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,119.40	
33 42 31 00-0464 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,982.69	
33 42 31 00-0465 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,818.11	
33 42 31 00-0466 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,583.72	
33 42 31 00-0467 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,277.11	
33 42 31 00-0468 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0469 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,129.28	
33 42 31 00-0470 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,488.70	
33 42 31 00-0471 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,815.45	
33 42 31 00-0472 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,109.48	
33 42 31 00-0473 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,370.84	
33 42 31 00-0474 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,599.49	
33 42 31 00-0475 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,307.24	
33 42 31 00-0476 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,298.46	
33 42 31 00-0477 EA 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,207.78	
33 42 31 00-0478 EA 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,035.21	
33 42 31 00-0479 EA 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,840.76	
33 42 31 00-0480 EA 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,574.10	
33 42 31 00-0481 EA 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,236.42	
33 42 31 00-0482 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0483 EA 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,853.40	
33 42 31 00-0484 EA 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,132.75	
33 42 31 00-0485 EA 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,379.41	
33 42 31 00-0486 EA 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,593.38	
33 42 31 00-0487 EA 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,773.45	
33 42 31 00-0488 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,922.04	
33 42 31 00-0489 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,578.55	
33 42 31 00-0490 EA 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,499.13	
33 42 31 00-0491 EA 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,337.81	
33 42 31 00-0492 EA 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,094.59	
33 42 31 00-0493 EA 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,838.85	
33 42 31 00-0494 EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,510.87	
33 42 31 00-0495 EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,111.90	
33 42 31 00-0496 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0497 EA 3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,667.07	
33 42 31 00-0498 EA 4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,138.36	
33 42 31 00-0499 EA 5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,572.12	
33 42 31 00-0500 EA 6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,968.33	
33 42 31 00-0501 EA 7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,328.18	
33 42 31 00-0502 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,651.70	
33 42 31 00-0503 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,470.45	
33 42 31 00-0504 EA 10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,643.74	
33 42 31 00-0505 EA 12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,724.97	
33 42 31 00-0506 EA 14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,712.92	
33 42 31 00-0507 EA 16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,669.19	
33 42 31 00-0508 EA 18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,545.57	
33 42 31 00-0509 EA 20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,340.87	
33 42 31 00-0510 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0511 EA 3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,688.61	
33 42 31 00-0512 EA 4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,128.83	
33 42 31 00-0513 EA 5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,532.70	
33 42 31 00-0514 EA 6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,900.24	
33 42 31 00-0515 EA 7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,230.21	
33 42 31 00-0516 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,522.64	
33 42 31 00-0517 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,341.40	
33 42 31 00-0518 EA 10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,487.23	
33 42 31 00-0519 EA 12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,540.96	
33 42 31 00-0520 EA 14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,502.62	



	Utilities	33	CS
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0521 EA 16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,434.88	
33 42 31 00-0522 EA 18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,287.47	
33 42 31 00-0523 EA 20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,060.05	
33 42 31 00-0524 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0525 EA 3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,902.88	
33 42 31 00-0526 EA 4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,274.93	
33 42 31 00-0527 EA 5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,619.56	
33 42 31 00-0528 EA 6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,939.17	
33 42 31 00-0529 EA 7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,233.74	
33 42 31 00-0530 EA 8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,500.89	
33 42 31 00-0531 Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0532 EA 3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,623.97	
33 42 31 00-0533 EA 4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,042.08	
33 42 31 00-0534 EA 5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,430.32	
33 42 31 00-0535 EA 6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,788.67	
33 42 31 00-0536 EA 7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,117.15	
33 42 31 00-0537 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,414.54	
33 42 31 00-0538 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,977.13	
33 42 31 00-0539 EA 10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,972.37	
33 42 31 00-0540 EA 12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,892.32	
33 42 31 00-0541 EA 14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,736.99	
33 42 31 00-0542 EA 16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,549.81	
33 42 31 00-0543 EA 18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,297.39	
33 42 31 00-0544 EA 20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,978.52	
33 42 31 00-0545 Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0546 EA 3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,063.12	
33 42 31 00-0547 EA 4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,429.97	
33 42 31 00-0548 EA 5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,770.59	
33 42 31 00-0549 EA 6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,086.19	
33 42 31 00-0550 EA 7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,374.37	
33 42 31 00-0551 EA 8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,637.51	
33 42 31 00-0552 Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0553 EA 3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,543.86	
33 42 31 00-0554 EA 4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,964.57	
33 42 31 00-0555 EA 5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,355.39	
33 42 31 00-0556 EA 6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,715.15	
33 42 31 00-0557 EA 7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,046.23	
33 42 31 00-0558 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,346.24	
33 42 31 00-0559 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,942.97	
33 42 31 00-0560 EA 10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,940.11	
33 42 31 00-0561 EA 12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,860.76	
33 42 31 00-0562 EA 14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,706.14	
33 42 31 00-0563 EA 16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,519.54	
33 42 31 00-0564 EA 18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,267.67	
33 42 31 00-0565 EA 20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,950.55	
33 42 31 00-0566 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0567 EA 3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,623.97	
33 42 31 00-0568 EA 4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,042.08	
33 42 31 00-0569 EA 5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,430.32	
33 42 31 00-0570 EA 6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,788.67	
33 42 31 00-0571 EA 7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,117.15	
33 42 31 00-0572 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,414.54	
33 42 31 00-0573 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,977.13	
33 42 31 00-0574 EA 10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,972.37	
33 42 31 00-0575 EA 12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,892.32	
33 42 31 00-0576 EA 14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,736.99	
33 42 31 00-0577 EA 16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,549.81	
33 42 31 00-0578 EA 18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,297.39	
33 42 31 00-0579 EA 20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,978.52	
33 42 31 00-0580 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0581 EA 3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,043.10	
33 42 31 00-0582 EA 4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,410.30	
33 42 31 00-0583 EA 5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,752.46	
33 42 31 00-0584 EA 6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,067.21	
33 42 31 00-0585 EA 7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,356.94	
33 42 31 00-0586 EA 8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,620.44	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0587		Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0588	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,083.16
33 42 31 00-0589	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,449.66
33 42 31 00-0590	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,789.93
33 42 31 00-0591	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,103.97
33 42 31 00-0592	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,391.79
33 42 31 00-0593	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,654.58
33 42 31 00-0594		Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0595	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,485.28
33 42 31 00-0596	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,058.73
33 42 31 00-0597	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,630.11
33 42 31 00-0598	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,083.25
33 42 31 00-0599	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,533.11
33 42 31 00-0600	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,942.97
33 42 31 00-0601		Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0602	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,226.40
33 42 31 00-0603	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,850.70
33 42 31 00-0604	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,428.80
33 42 31 00-0605	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,961.92
33 42 31 00-0606	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,448.85
33 42 31 00-0607	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,890.78
33 42 31 00-0608	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,221.86
33 42 31 00-0609	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,689.13
33 42 31 00-0610	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,043.65
33 42 31 00-0611	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,286.63
33 42 31 00-0612	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,484.55
33 42 31 00-0613	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,584.60
33 42 31 00-0614	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,586.79
33 42 31 00-0615		Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0616	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,465.24
33 42 31 00-0617	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,039.06
33 42 31 00-0618	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,572.87
33 42 31 00-0619	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,065.47
33 42 31 00-0620	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,515.69
33 42 31 00-0621	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,925.90
33 42 31 00-0622		Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0623	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,366.61
33 42 31 00-0624	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,986.07
33 42 31 00-0625	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,560.51
33 42 31 00-0626	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,088.77
33 42 31 00-0627	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,572.04
33 42 31 00-0628	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,010.32
33 42 31 00-0629	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,238.94
33 42 31 00-0630	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,705.85
33 42 31 00-0631	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,060.03
33 42 31 00-0632	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,301.45
33 42 31 00-0633	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,499.09
33 42 31 00-0634	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,598.87
33 42 31 00-0635	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,600.78
33 42 31 00-0636		Type GO Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0637	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,483.77
33 42 31 00-0638	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,887.04
33 42 31 00-0639	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,261.16
33 42 31 00-0640	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,606.09
33 42 31 00-0641	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,921.83
33 42 31 00-0642	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,209.61
33 42 31 00-0643	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,789.28
33 42 31 00-0644	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,754.93
33 42 31 00-0645	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,645.64
33 42 31 00-0646	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,463.83
33 42 31 00-0647	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,252.71
33 42 31 00-0648	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,976.38
33 42 31 00-0649	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,637.22
33 42 31 00-0650		Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0425)	
33 42 31 00-0651	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,244.92
33 42 31 00-0652	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,775.00
33 42 31 00-0653	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,266.93



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0654 EA 6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,721.88	
33 42 31 00-0655 EA 7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,137.45	
33 42 31 00-0656 EA 8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,516.04	
33 42 31 00-0657 EA 8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,445.80	
33 42 31 00-0658 EA 10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,690.38	
33 42 31 00-0659 EA 12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,839.97	
33 42 31 00-0660 EA 14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,895.82	
33 42 31 00-0661 EA 16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,912.36	
33 42 31 00-0662 EA 18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,846.47	
33 42 31 00-0663 EA 20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	13,698.15	
33 42 31 00-0664 Catch Basin Frames And Covers (33 42 31 00-0001)		
33 42 31 00-0665 Cast Iron Frames And Covers (33 42 31 00-0664)		
33 42 31 00-0666 EA 18" Diameter Cast Iron Catch Basin Frame And Cover.....	1,189.27	119.74
33 42 31 00-0667 EA 22" Diameter Cast Iron Catch Basin Frame And Cover.....	1,515.76	135.30
33 42 31 00-0668 EA 24" Diameter Cast Iron Catch Basin Frame And Cover.....	1,726.10	140.09
33 42 31 00-0669 EA 26" Diameter Cast Iron Catch Basin Frame And Cover.....	1,949.26	162.85
33 42 31 00-0670 EA 28" Diameter Cast Iron Catch Basin Frame And Cover.....	2,298.83	185.59
33 42 31 00-0671 EA 32" Diameter Cast Iron Catch Basin Frame And Cover.....	3,715.11	193.97
33 42 31 00-0672 EA 16" x 16" Cast Iron Catch Basin Frame And Cover.....	1,995.47	147.27
33 42 31 00-0673 EA 18" x 24" Cast Iron Catch Basin Frame And Cover.....	2,616.72	170.03
33 42 31 00-0674 EA 20" x 27" Cast Iron Catch Basin Frame And Cover.....	2,968.78	177.22
33 42 31 00-0675 EA 23" x 23" Cast Iron Catch Basin Frame And Cover.....	2,798.66	177.22
33 42 31 00-0676 EA 24" x 24" Cast Iron Catch Basin Frame And Cover.....	2,891.64	184.40
33 42 31 00-0677 EA 26" x 26" Cast Iron Catch Basin Frame And Cover.....	3,109.38	191.58
33 42 31 00-0678 EA 24" x 36" Cast Iron Catch Basin Frame And Cover.....	3,753.87	205.95
33 42 31 00-0679 Area Yard Drain (33 42 31 00-0001)		
33 42 31 00-0680 Ductile Iron Grates (33 42 31 00-0679)		
Note: Not for traffic loading.		
33 42 31 00-0681 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe.....	171.71	41.62
33 42 31 00-0682 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe.....	209.83	44.39
33 42 31 00-0683 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	483.36	55.49
33 42 31 00-0684 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	577.59	66.59
33 42 33 Stormwater Curbside Drains and Inlets (33 42)		
33 42 33 00-0001 Curb Inlet Frames And Covers (33 42 33)		
33 42 33 00-0002 Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)		
33 42 33 00-0003 EA 20" x 22" Cast Iron Curb Inlet Frame And Cover.....	2,507.16	140.09
33 42 33 00-0004 EA 22" x 24" Cast Iron Curb Inlet Frame And Cover.....	2,678.51	162.85
33 42 33 00-0005 EA 24" x 24" Cast Iron Curb Inlet Frame And Cover.....	2,789.97	162.85
33 42 33 00-0006 EA 27" x 27" Cast Iron Curb Inlet Frame And Cover.....	3,054.64	191.58
33 42 33 00-0007 EA 36" x 24" Cast Iron Curb Inlet Frame And Cover.....	3,015.55	204.75
33 42 36 Stormwater Trench Drains (33 42)		
33 42 36 00-0001 Modular Trench Drains (33 42 36)		
See CSI section 03 31 13 00-0011 for concrete.		
33 42 36 00-0002 Modular Trench Drains (33 42 36 00-0001)		
Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		
33 42 36 00-0003 4" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0004 4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0005 4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0006 LF 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain (Zurn Z844-C).....	73.47	19.16
For Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		109.19
For Galvanized Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		218.38
For Stainless Steel Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add		349.41
For Type 304 Stainless Steel Top Veneer Frame, Add		87.35
For Aluminum Veneer Bronze Anodized Frame, Add		43.68
33 42 36 00-0007 Outlet Adapters For 4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0008 EA Closed End Cap For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain.....	55.72	
33 42 36 00-0009 EA No-Hub End Outlet For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain.....	67.69	
33 42 36 00-0010 EA No-Hub Bottom Outlet For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain.....	67.69	
33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0012 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0013 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0014 LF 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain.....	225.13	19.16
For Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	109.19	
For Galvanized Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	218.38	
For Stainless Steel Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	349.41	
For Type 304 Stainless Steel Top Veneer Frame, Add	87.35	
For Aluminum Veneer Bronze Anodized Frame, Add	43.68	
33 42 36 00-0015 Outlet Adapters For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0016 EA Closed End Cap For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	102.57	
33 42 36 00-0017 EA No-Hub End Outlet For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	114.54	
33 42 36 00-0018 EA No-Hub Bottom Outlet For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	114.54	
33 42 36 00-0019 Other Fittings For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0020 EA Bottom Dome Strainer For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	197.03	
33 42 36 00-0021 EA Joint Connector For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	197.03	
33 42 36 00-0022 EA 90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	933.38	
33 42 36 00-0023 EA Cross For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	1,806.90	
33 42 36 00-0024 EA Cutting Charge For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	218.38	
33 42 36 00-0025 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0026 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0027 LF 6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	327.77	19.16
For Black Acid Resistant Coated Frame, Add	82.98	
For Galvanized Top Frame Assembly, Add	82.98	
For Type 304 Stainless Steel Top Frame Assembly, Add	305.73	
33 42 36 00-0028 Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0029 EA Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	111.30	
33 42 36 00-0030 EA No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	123.27	
33 42 36 00-0031 EA No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	123.27	
33 42 36 00-0032 Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0033 EA Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	197.03	
33 42 36 00-0034 EA Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	197.03	
33 42 36 00-0035 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	933.38	
33 42 36 00-0036 EA Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,806.90	
33 42 36 00-0037 EA Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	218.38	
33 42 36 00-0038 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0039 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0040 LF 6" Wide, Vinylester Fiberglass, Modular Trench Drain.....	423.86	19.16
For Black Acid Resistant Coated Frame, Add	82.98	
For Galvanized Top Frame Assembly, Add	82.98	
For Type 304 Stainless Steel Top Frame Assembly, Add	305.73	
33 42 36 00-0041 Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0042 EA Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	181.18	
33 42 36 00-0043 EA No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	193.15	
33 42 36 00-0044 EA No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	193.15	
33 42 36 00-0045 Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0046 EA Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	197.03	
33 42 36 00-0047 EA Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	197.03	
33 42 36 00-0048 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	933.38	
33 42 36 00-0049 EA Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	1,806.90	
33 42 36 00-0050 EA Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	218.38	
33 42 36 00-0051 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0011)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0052		6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0053	LF	6" Wide, Polymer Concrete, Modular Trench Drain	506.72	
33 42 36 00-0054		Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0055	EA	Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain	200.98	
33 42 36 00-0056	EA	No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	244.90	
33 42 36 00-0057	EA	No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	77.72	
33 42 36 00-0058		12" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0059		12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0060		12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0061	LF	12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain	423.93	26.34
		For Acid Resistant Coated Top Frame, Add	113.56	
		For Galvanized Welded Frame Assembly, Add	119.02	
		For Type 304 Stainless Steel Top Frame, Add	681.35	
33 42 36 00-0062		Outlet Adapters For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0063	EA	End Cap For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	211.00	
33 42 36 00-0064	EA	No-Hub End Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	226.96	
33 42 36 00-0065	EA	No-Hub Bottom Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	226.96	
33 42 36 00-0066		Other Fittings For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0067	EA	Bottom Dome Strainer For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	352.14	
33 42 36 00-0068	EA	Joint Connector For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	461.33	
33 42 36 00-0069	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	1,839.15	
33 42 36 00-0070	EA	Cross For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	3,586.19	
33 42 36 00-0071	EA	Cutting Charges For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	436.76	
33 42 36 00-0072		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0073		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0074	LF	12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	533.12	26.34
		For Acid Resistant Coated Top Frame, Add	113.56	
		For Galvanized Welded Frame Assembly, Add	119.02	
		For Type 304 Stainless Steel Top Frame, Add	681.35	
33 42 36 00-0075		Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0076	EA	End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	219.74	
33 42 36 00-0077	EA	No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	235.70	
33 42 36 00-0078	EA	No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	235.70	
33 42 36 00-0079		Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0080	EA	Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	352.14	
33 42 36 00-0081	EA	Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	461.33	
33 42 36 00-0082	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,839.15	
33 42 36 00-0083	EA	Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	3,586.19	
33 42 36 00-0084	EA	Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	436.76	
33 42 36 00-0085		12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0086		12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0087	LF	12" Wide, Vinylester Fiberglass, Modular Trench Drain	751.50	26.34
		For Acid Resistant Coated Top Frame, Add	113.56	
		For Galvanized Welded Frame Assembly, Add	119.02	
		For Type 304 Stainless Steel Top Frame, Add	681.35	
33 42 36 00-0088		Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0089	EA	End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	547.31	
33 42 36 00-0090	EA	No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	563.27	
33 42 36 00-0091	EA	No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	563.27	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0092		Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains ^(33 42 36 00-0092)		
33 42 36 00-0093	EA	Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	352.14	
33 42 36 00-0094	EA	Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	461.33	
33 42 36 00-0095	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,839.15	
33 42 36 00-0096	EA	Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	3,586.19	
33 42 36 00-0097	EA	Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	436.76	
33 42 36 00-0098		12" Wide, Polymer Concrete, Modular Trench Drains ^(33 42 36 00-0098)		
33 42 36 00-0099		12" Wide, Polymer Concrete, Modular Trench Drains ^(33 42 36 00-0099)		
33 42 36 00-0100	LF	12" Wide, Polymer Concrete, Modular Trench Drain	679.63	
33 42 36 00-0101		Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains ^(33 42 36 00-0101)		
33 42 36 00-0102	EA	Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain	341.79	
33 42 36 00-0103	EA	No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	588.84	
33 42 36 00-0104	EA	No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	136.30	
33 42 36 00-0105		23" Wide, Modular Trench Drains ^(33 42 36 00-0105)		
33 42 36 00-0106		23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains ^(33 42 36 00-0106)		
33 42 36 00-0107		23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains ^(33 42 36 00-0107)		
33 42 36 00-0108	LF	23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain	594.35	35.92
		<i>For Acid Resistant Coated Frame, Add</i>	170.34	
		<i>For Galvanized Frame Assembly, Add</i>	170.34	
		<i>For Type 304 Stainless Steel Top Frame, Add</i>	1,048.22	
33 42 36 00-0109		Outlet Adapters For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains ^(33 42 36 00-0109)		
33 42 36 00-0110	EA	End Cap For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	671.50	
33 42 36 00-0111	EA	No-Hub End Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	979.95	
33 42 36 00-0112	EA	No-Hub Bottom Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	979.95	
33 42 36 00-0113		Other Fittings For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains ^(33 42 36 00-0113)		
33 42 36 00-0114	EA	Bottom Dome Strainer For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	800.24	
33 42 36 00-0115	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	3,643.74	
33 42 36 00-0116	EA	Cross For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	7,137.82	
33 42 36 00-0117	EA	Cutting Charges For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	873.52	
33 42 36 00-0118		Modular Trench Drain Grates ^(33 42 36 00-0118)		
33 42 36 00-0119		4" Wide, Modular Trench Drain Grates ^(33 42 36 00-0119)		
33 42 36 00-0120	LF	4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	46.50	3.59
33 42 36 00-0121	LF	4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG)	48.89	3.59
33 42 36 00-0122	LF	4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG)	39.35	3.59
33 42 36 00-0123	LF	4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS)	104.89	3.59
33 42 36 00-0124	LF	4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG)	39.35	3.59
33 42 36 00-0125	LF	4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	104.89	3.59
33 42 36 00-0126		6" Wide, Modular Trench Drain Grates ^(33 42 36 00-0126)		
33 42 36 00-0127	LF	6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	215.63	3.59
33 42 36 00-0128	LF	6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate	182.66	3.59
33 42 36 00-0129	LF	6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	191.83	3.59
33 42 36 00-0130	LF	6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	167.59	3.59
33 42 36 00-0131	LF	6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	180.69	3.59
33 42 36 00-0132	LF	6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	182.88	3.59
33 42 36 00-0133	LF	6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	182.88	3.59
33 42 36 00-0134	LF	6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	180.69	3.59
33 42 36 00-0135	LF	6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate	158.86	3.59
33 42 36 00-0136	LF	6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	158.86	3.59
33 42 36 00-0137	LF	6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	168.90	3.59
33 42 36 00-0138	LF	6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	168.90	3.59
33 42 36 00-0139	LF	6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	220.00	3.59
33 42 36 00-0140	LF	6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	220.00	3.59
33 42 36 00-0141	LF	6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	403.44	3.59
33 42 36 00-0142	LF	6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	403.44	3.59
33 42 36 00-0143	LF	6" Wide, Stainless Steel Bar, Modular Trench Drain Grate	1,124.10	3.59
33 42 36 00-0144	LF	6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	150.12	3.59



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0145	LF	6" Wide, Fiberglass, Modular Trench Drain Grate	324.82	3.59
33 42 36 00-0146		12" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0147	LF	12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate	596.21	3.89
33 42 36 00-0148	LF	12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	570.00	3.89
33 42 36 00-0149	LF	12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	495.75	3.89
33 42 36 00-0150	LF	12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	520.86	3.89
33 42 36 00-0151	LF	12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	449.89	3.89
33 42 36 00-0152	LF	12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	881.19	3.89
33 42 36 00-0153	LF	12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	881.19	3.89
33 42 36 00-0154	LF	12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	1,124.69	3.89
33 42 36 00-0155	LF	12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	1,124.69	3.89
33 42 36 00-0156	LF	12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	1,435.88	3.89
33 42 36 00-0157	LF	12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	1,435.88	3.89
33 42 36 00-0158	LF	12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	1,362.72	3.89
33 42 36 00-0159	LF	12" Wide, Fiberglass, Modular Trench Drain Grate	643.16	3.89
33 42 36 00-0160		23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0161	LF	23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	941.85	4.19
33 42 36 00-0162	LF	23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	793.35	4.19
33 42 36 00-0163	LF	23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	1,230.11	4.19
33 42 36 00-0164	LF	23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate	911.27	4.19
33 44		Storm Utility Water Drains (33 40)		
33 44 36		Oil and Stormwater Separators (33 44)		
33 44 36 00-0001		Oil/Water Separator (33 44 36)		
		Note: Complete with internal sensors and detectors.		
33 44 36 00-0002		Coalescing Oil Water Separator (33 44 36 00-0001)		
		Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		
33 44 36 00-0003		Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0004	EA	550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	20,243.41	
		Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
		For Interior Polyurethane Coating, Add	711.00	
33 44 36 00-0005	EA	1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	24,740.02	
		Note: HTC-G 1000. 4' diameter x 14' long tank.		
		For Interior Polyurethane Coating, Add	893.70	
33 44 36 00-0006	EA	2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	29,603.87	
		Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
		For Interior Polyurethane Coating, Add	1,340.10	
33 44 36 00-0007		Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0008	EA	550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	31,373.56	
		Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
		For Interior Polyurethane Coating, Add	711.00	
33 44 36 00-0009	EA	1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	36,067.41	
		Note: HTC-G 1000. 4' diameter x 14' long tank.		
		For Interior Polyurethane Coating, Add	893.70	
33 44 36 00-0010	EA	2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	44,014.64	
		Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
		For Interior Polyurethane Coating, Add	1,340.10	
33 44 36 00-0011	EA	3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	51,206.36	
		Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.		
		For Interior Polyurethane Coating, Add	1,550.70	
33 44 36 00-0012	EA	5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	67,978.74	
		Note: HTC-G 5000. 6' diameter x 28'-8" long tank.		
		For Interior Polyurethane Coating, Add	2,057.80	
33 44 36 00-0013		Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)		
33 44 36 00-0014	EA	Single Channel Alarm Panel For Coalescing Oil Water Separator	1,259.51	
		Note: HTAP1.		
33 44 36 00-0015	EA	Two Channel Alarm Panel For Coalescing Oil Water Separator	1,711.70	
		Note: HTAP2.		
33 44 36 00-0016	EA	Float Interface Sensor For Coalescing Oil Water Separator	1,014.20	
		Note: Required for UL 2215 label.		
33 44 36 00-0017	EA	1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator	750.59	
		Note: Required for UL 2215 label.		
33 44 36 00-0018	EA	Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator	256.30	
		Note: Required for UL 2215 label.		
33 44 36 00-0019	EA	550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	4,318.85	
33 44 36 00-0020	EA	3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	8,637.70	
33 44 36 00-0021	EA	5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	12,956.66	

33 Utilities**33 40 Stormwater Utilities****33 44 Storm Utility Water Drains**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0022 EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	780.09	
33 44 36 00-0023 EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	920.68	
33 44 36 00-0024 EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,841.36	
33 44 36 00-0025 EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	4,080.14	
33 44 36 00-0026 EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,109.61	
33 44 36 00-0027 EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,445.47	
33 44 36 00-0028 EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	2,001.02	
33 44 36 00-0029 EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator	3,644.23	
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator	4,685.52	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator	5,880.58	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator	7,413.96	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,465.27	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,786.01	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	2,805.33	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,397.17	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,695.94	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	2,012.28	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	118.63	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	134.01	
33 44 36 00-0041 Oil Skimmers (33 44 36)		
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,345.77	748.33
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,581.57	748.33
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,367.61	748.33
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,669.99	748.33
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,615.41	748.33
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,815.18	748.33
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,666.71	748.33
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,968.01	748.33
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	6,098.24	997.98
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	6,350.41	997.98
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,164.83	997.98
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,527.26	997.98
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,735.76	997.98
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,987.93	997.98
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,789.25	997.98
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	7,152.77	997.98
33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	286.26	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	334.29	
33 46 Stormwater Management (33 40)		
33 46 23 Modular Buried Stormwater Storage Units (33 46)		
33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23)		
Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.		
33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)		
33 46 23 00-0003 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	622.88	
33 46 23 00-0004 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	575.01	
33 46 23 00-0005 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	540.30	
33 46 23 00-0006 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	506.72	
33 46 23 00-0007 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	259.40	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Management	33 46	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0008	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	229.70	
33 46 23 00-0009	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	212.26	
33 46 23 00-0010	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	195.08	
33 46 23 00-0011		85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)		
33 46 23 00-0012	EA	Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	354.39	
33 46 23 00-0013	EA	>10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	324.76	
33 46 23 00-0014	EA	>20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	304.03	
33 46 23 00-0015	EA	>30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	285.06	
33 46 23 00-0016	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	202.69	
33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	180.64	
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	167.09	
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	154.97	
33 46 23 00-0020		90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) (33 46 23 00-0001)		
33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	1,060.42	
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	988.61	
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	930.97	
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	878.45	
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	893.20	
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	829.73	
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	780.05	
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	735.07	
33 46 23 00-0029		85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) (33 46 23 00-0001)		
33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	646.86	
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	597.81	
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	561.94	
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	527.27	
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	259.40	
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	225.17	
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	212.26	
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	195.08	
33 46 23 00-0038		52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) (33 46 23 00-0001)		
33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	1,102.29	
33 46 23 00-0040	EA	>10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	1,026.31	
33 46 23 00-0041	EA	>20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	964.53	
33 46 23 00-0042	EA	>30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	910.94	
33 46 23 00-0043	EA	Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,373.03	
33 46 23 00-0044	EA	>10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,283.49	
33 46 23 00-0045	EA	>20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,208.87	
33 46 23 00-0046	EA	>30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,143.06	
33 46 23 00-0047		Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)		
33 46 23 00-0048	EA	Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	66.62	
33 46 23 00-0049	EA	Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	84.74	

33 Utilities**33 40 Stormwater Utilities****33 46 Stormwater Management**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0050	EA	Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	110.52	
33 46 23 00-0051	EA	Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	139.64	
33 46 23 00-0052	EA	12" x 6" Inspection Port Kit Note: (2712AG6IPKIT)	777.92	
33 46 53 Stormwater Leaching Pits (33 46)				
33 46 53 00-0001		Drainage Wells (33 46 53) Note: Includes augering hole.		
33 46 53 00-0002	LF	12" Diameter Drainage Well With Corrugated Metal Liner.....	35.79	
33 46 53 00-0003	LF	18" Diameter Drainage Well With Corrugated Metal Liner.....	44.03	
33 46 53 00-0004	LF	24" Diameter Drainage Well With Corrugated Metal Liner.....	59.41	
33 50 Hydrocarbon Utilities (33)				
33 51 Hydrocarbon Sources (33 50)				
33 51 29 Extraction Wells for Gaseous Hydrocarbons (33 51)				
33 51 29 00-0001		Landfill Gas Well (33 51 29)		
33 51 29 00-0002		Mobilization And Demobilization Landfill Gas Extraction Well (33 51 29 00-0001)		
33 51 29 00-0003	EA	24" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization.....	1,456.91	
33 51 29 00-0004	EA	>24" To 36" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization.....	2,185.37	
33 51 29 00-0005		Drill Landfill Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0001) Note: Excludes well gravel or materials.		
33 51 29 00-0006	LF	24" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	252.23	
33 51 29 00-0007	LF	30" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	328.54	
33 51 29 00-0008	LF	36" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	408.67	
33 51 29 00-0009		Landfill Gas Extraction Well Gravel Backfill (33 51 29 00-0001) Note: 1/2" x 1-1/2" drain rock.		
33 51 29 00-0010	LF	24" Diameter Landfill Gas Extraction Well, Gravel.....	130.58	
33 51 29 00-0011	LF	30" Diameter Landfill Gas Extraction Well, Gravel.....	167.76	
33 51 29 00-0012	LF	36" Diameter Landfill Gas Extraction Well, Gravel.....	194.14	
33 51 29 00-0013		Landfill Gas Extraction Well Collection Head (33 51 29 00-0001)		
33 51 29 00-0014	EA	Landfill Gas Extraction Well Head Assembly.....	3,636.80	
33 51 29 00-0015	EA	Landfill Gas Extraction Well Locking Enclosure.....	1,116.53	
33 51 29 00-0016	SF	Landfill Gas Extraction Well Skirt, PVC Seal (Landtex WBS-100-4).....	5.84	
33 51 29 00-0017	CF	Landfill Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD).....	11.43	
33 51 29 00-0018	CY	Landfill Gas Extraction Well Plug, Moistened And Tamped In 2' Lifts.....	144.07	
33 51 29 00-0019	EA	4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Landfill Gas Extraction Well..... Note: Includes drilling, concrete footing, pipe and concrete fill.	749.74	14.72
		For Galvanized Steel, Add	66.78	
		For 304 Stainless Steel, Add	530.28	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	1,451.76	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	707.00	
		For Schedule 80, Add	94.61	
33 51 29 00-0020		Landfill Gas Extraction Well Valve Box (33 51 29 00-0001)		
33 51 29 00-0021	EA	17" x 30" x 12" High Fibrelite Utility Box (FL36T-12).....	393.83	157.31
33 51 29 00-0022	EA	17" x 30" x 18" High Fibrelite Utility Box (FL36T-18).....	535.79	157.31
33 51 29 00-0023	EA	17" x 30" x 24" High Fibrelite Utility Box (FL36T-18).....	677.94	157.31
33 51 29 00-0024	EA	Fibrelite Composite Lid For 17" x 30" Utility Box (FL36D).....	305.81	37.95
33 51 29 00-0025	EA	6" High Extension For 17" x 30" Utility Box (FL36x6).....	182.84	55.20
33 51 29 00-0026	EA	8" High Extension For 17" x 30" Utility Box (FL36x8).....	204.85	55.20
33 51 29 00-0027		Landfill Gas Extraction Well Riser Pipe (33 51 29 00-0001)		
33 51 29 00-0028	LF	4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Thread.....	21.92	
33 51 29 00-0029	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Riser Pipe With Slip Joint And Coupler.....	58.12	
33 51 29 00-0030	EA	6" Well Riser Pipe, Centralizer For >12" To 24" Diameter Well.....	151.49	
33 51 29 00-0031	EA	6" Well Riser Pipe, Centralizer For >24" To 30" Diameter Well.....	226.55	
33 51 29 00-0032		Soil Vapor Gas Extraction Well (33 51 29)		
33 51 29 00-0033		Mobilization And Demobilization Soil Vapor Gas Extraction Well (33 51 29 00-0032)		
33 51 29 00-0034	EA	Up To 12" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization.....	1,195.07	
33 51 29 00-0035	EA	>12" To 24" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization.....	1,456.91	



Utilities			33	CS
Hydrocarbon Utilities			33 50	
Hydrocarbon Sources			33 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 51 29 00-0036 Drill Soil Vapor Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0032) Note: Excludes well gravel or materials.		
33 51 29 00-0037 LF 6" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	28.23	
33 51 29 00-0038 LF 8" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	33.51	
33 51 29 00-0039 LF 10" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	44.80	
33 51 29 00-0040 LF 12" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	70.11	
33 51 29 00-0041 LF 18" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	156.62	
33 51 29 00-0042 Soil Vapor Gas Extraction Well Pea Gravel Backfill (33 51 29 00-0032)		
33 51 29 00-0043 LF 6" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	20.13	
33 51 29 00-0044 LF 8" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	29.72	
33 51 29 00-0045 LF 10" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	41.43	
33 51 29 00-0046 LF 12" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	53.10	
33 51 29 00-0047 LF 18" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	97.16	
33 51 29 00-0048 Soil Vapor Gas Extraction Well Head (33 51 29 00-0032)		
33 51 29 00-0049 EA Soil Vapor Gas Extraction Well Head Assembly.....	1,781.71	
33 51 29 00-0050 EA Soil Vapor Gas Extraction Well Head Concrete Cap	1,446.57	
33 51 29 00-0051 EA Soil Vapor Gas Extraction Well Locking Enclosure.....	1,116.53	
33 51 29 00-0052 CF Soil Vapor Gas Extraction Well Neat Cement.....	9.53	
33 51 29 00-0053 CF Soil Vapor Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD).....	11.43	
33 51 29 00-0054 EA 4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Soil Vapor Gas Extraction Well	749.74	14.72
Note: Includes drilling, concrete footing, pipe and concrete fill.		
For Galvanized Steel, Add	66.78	
For 304 Stainless Steel, Add	530.28	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	1,451.76	
For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	707.00	
For Schedule 80, Add	94.61	
33 51 29 00-0055 LF 1/4" Polyethylene Tubing For Soil Vapor Gas Extraction Well.....	3.62	
For Work In Restricted Working Space, Add	1.00	
33 51 29 00-0056 EA 1/4" Polyvinyl Chloride (PVC) Stopcock Valve (Hayward LC12) For Soil Vapor Gas Extraction Well	80.64	21.67
33 51 29 00-0057 Soil Vapor Gas Extraction Well Riser Pipe (33 51 29 00-0032)		
33 51 29 00-0058 LF 3/4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Tread.....	3.96	
33 51 29 00-0059 LF 3/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Riser Pipe	10.56	
33 52 Hydrocarbon Transmission and Distribution (33 50)		
33 52 16 Gas Hydrocarbon Piping (33 52)		
33 52 16 13 Steel Natural Gas Piping (33 52 16)		
33 52 16 13-0001 Gas Distribution Lines (33 52 16 13) Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 53 Hydrocarbon Utility Pressure Regulation (33 50)		
33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)		
33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)		
33 53 16 00-0002 EA 3/4" Gas Pressure Regulator, Screwed End.....	267.13	21.67
33 53 16 00-0003 EA 1" Gas Pressure Regulator, Screwed End.....	272.06	21.67
33 53 16 00-0004 EA 1-1/4" Gas Pressure Regulator, Screwed End.....	283.85	25.73
33 53 16 00-0005 EA 1-1/2" Gas Pressure Regulator, Screwed End.....	952.87	29.79
33 53 16 00-0006 EA 2" Gas Pressure Regulator, Screwed End.....	1,015.09	46.14
33 53 16 00-0007 EA 3" Gas Pressure Regulator, Screwed End.....	2,850.15	103.50
33 53 16 00-0008 EA 4" Gas Pressure Regulator, Screwed End.....	3,960.18	137.17
33 59 Hydrocarbon Utility Metering (33 50)		
33 59 11 Diaphragm/Bellows Hydrocarbons Meters (33 59)		
33 59 11 00-0001 Diaphragm Meters (33 59 11) Note: With standard direct-digital reading maximum working pressures 5 lb. to 100 lb., threaded connections. Excludes pressure and temperature compensation.		
33 59 11 00-0002 EA 250 CF/Hour Gas Diaphragm Meter At 5 Lb., Direct Digital, Threaded	654.30	84.80
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0003 EA 425 CF/Hour Gas Diaphragm Meter At 10 Lb., Direct Digital, Threaded	1,286.62	129.69
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0004 EA 425 CF/Hour Gas Diaphragm Meter At 25 Lb., Direct Digital, Threaded	1,513.24	129.69
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	

33 Utilities**33 50 Hydrocarbon Utilities****33 59 Hydrocarbon Utility Metering**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 59 11 00-0005 EA 800 CF/Hour Gas Diaphragm Meter At 20 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	3,310.01 8.40 26.50	162.11
33 59 11 00-0006 EA 1,000 CF/Hour Gas Diaphragm Meter At 25 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	3,743.58 8.40 26.50	199.52
33 59 11 00-0007 EA 800 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	4,929.30 8.40 26.50	162.11
33 59 11 00-0008 EA 1,000 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	5,486.13 8.40 26.50	199.52
33 59 11 00-0009 EA 1,400 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	7,243.76 8.40 26.50	211.99
33 59 11 00-0010 EA 2,300 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	10,251.25 8.40 26.50	249.40
33 59 11 00-0011 EA 5,000 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	15,657.76 8.40 26.50	411.51

33 59 16 Hydrocarbons Turbine Meters (33 59)**33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading (33 59 16)**

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002 EA 4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	12,569.09	433.54
33 59 16 00-0003 EA 6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	13,460.29	503.46
33 59 16 00-0004 EA 8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	20,821.27	536.93
33 59 16 00-0005 EA 10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	40,483.56	653.65
33 59 16 00-0006 EA 12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	66,783.02	817.05

33 70 Electrical Utilities (33)**33 71 Electrical Utility Transmission and Distribution (33 70)****33 71 19 Electrical Underground Ducts, Ductbanks and Manholes (33 71)**

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes (33 71 19)**33 71 19 13-0001 Electrical Handholes And Pull Boxes (33 71 19 13)****33 71 19 13-0002 Electrical Pull Boxes (33 71 19 13-0001)**

See CSI section 33 05 63 00-0427 for handholes.

33 71 19 13-0003 EA 24" x 36" x 24", Electric Pull Boxes, Precast Concrete	2,742.50	592.72
33 71 19 13-0004 EA 24" x 36" x 36", Electric Pull Boxes, Precast Concrete	3,316.10	656.99
33 71 19 13-0005 EA 30" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,866.69	714.12
33 71 19 13-0006 EA 36" x 72" x 24", Electric Pull Boxes, Precast Concrete	6,163.09	856.94
33 71 19 13-0007 EA 36" x 60" x 36", Electric Pull Boxes, Precast Concrete	6,608.00	856.94
33 71 19 13-0008 EA 48" x 48" x 36", Electric Pull Boxes, Precast Concrete	7,124.24	892.65
33 71 19 13-0009 EA 48" x 60" x 48", Electric Pull Boxes, Precast Concrete	8,208.48	999.77
33 71 19 13-0010 EA 18" x 28" x 34", Electric Pull Boxes, Precast Concrete	2,892.58	656.99
33 71 19 13-0011 EA 14" x 20" x 12", Electric Pull Boxes, Precast Concrete	1,434.47	428.48
33 71 19 13-0012 EA 18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,819.49	856.94
33 71 19 13-0013 EA 24" x 36" x 12", Electric Pull Boxes, Precast Concrete	2,475.68	999.77
33 71 19 13-0014 EA 24" x 3", Round Electric Pull Boxes, Precast Concrete	1,577.93	249.94
33 71 19 13-0015 EA 30" x 3", Round Electric Pull Boxes, Precast Concrete	1,664.98	267.79

33 71 19 13-0016 Electrical Pull Boxes (CALTRANS And SDG&E) (33 71 19 13-0001)

33 71 19 13-0017 EA Body, CALTRANS 3-1/2 Precast Concrete Pull Box	147.81	
33 71 19 13-0018 EA Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	59.14	
33 71 19 13-0019 EA Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	90.82	
33 71 19 13-0020 EA Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	192.54	
33 71 19 13-0021 EA Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	298.01	
For Galvanized Steel Cover, Add	51.06	
33 71 19 13-0022 EA 12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	74.60	
33 71 19 13-0023 EA Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	74.60	
33 71 19 13-0024 EA Body, CALTRANS 5 Precast Concrete Pull Box	211.41	
33 71 19 13-0025 EA Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	79.11	
33 71 19 13-0026 EA Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	110.79	
33 71 19 13-0027 EA Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	395.36	
For Galvanized Steel Cover, Add	93.61	
33 71 19 13-0028 EA 12" Extension, CALTRANS 5 Precast Concrete Pull Box	105.80	
33 71 19 13-0029 EA Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	98.93	
33 71 19 13-0030 EA Body, CALTRANS 6 Precast Concrete Pull Box	231.38	
33 71 19 13-0031 EA Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	105.94	
33 71 19 13-0032 EA Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	137.63	
33 71 19 13-0033 EA Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	542.64	
For Galvanized Steel Cover, Add	131.05	
33 71 19 13-0034 EA 12" Extension, CALTRANS 6 Precast Concrete Pull Box	125.77	



		Utilities	33	CS
		Electrical Utilities	33 70	
		Electrical Utility Transmission and Distribution	33 71	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0035	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	118.28	
33 71 19 13-0036	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	163.21	
33 71 19 13-0037	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	330.66	
33 71 19 13-0038	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	475.24	
33 71 19 13-0039	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	150.73	
33 71 19 13-0040	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	138.25	
33 71 19 13-0041	EA	Body, CALTRANS 5-T Precast Concrete Pull Box	431.08	
33 71 19 13-0042	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	687.42	
33 71 19 13-0043	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box.....	180.69	
33 71 19 13-0044	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	175.69	
33 71 19 13-0045	EA	Body, CALTRANS 6-T Precast Concrete Pull Box	613.30	
33 71 19 13-0046	EA	Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	962.01	
33 71 19 13-0047	EA	12" Extension, CALTRANS 6-T Precast Concrete Pull Box.....	305.50	
33 71 19 13-0048	EA	Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	238.10	
33 71 19 13-0049	EA	24" x 36" Handhole (SDG&E 3313K/T).....	246.13	
33 71 19 13-0050	EA	24" x 36" Traffic Cover (SDG&E 3313CSTG).....	1,974.98	
33 71 19 13-0051 Precast Concrete Box Extensions (33 71 19 13-0001)				
33 71 19 13-0052	EA	14" x 20" x 12", Precast Concrete Extension	239.20	45.87
33 71 19 13-0053	EA	18" x 28" x 12", Precast Concrete Extension	300.53	58.11
33 71 19 13-0054	EA	24" x 36" x 12", Precast Concrete Extension	392.49	79.51
33 71 19 13-0055	EA	30" x 48" x 12", Precast Concrete Extension	485.60	110.10
33 71 19 13-0056	EA	36" x 60" x 12", Precast Concrete Extension	772.92	134.56
33 71 19 13-0057	EA	36" x 72" x 12", Precast Concrete Extension	1,030.81	152.90
33 71 19 13-0058	EA	48" x 48" x 12", Precast Concrete Extension	1,166.09	140.67
33 71 19 13-0059	EA	48" x 60" x 12", Precast Concrete Extension	1,430.02	165.13
33 71 19 13-0060 Electrical Property Line Boxes (33 71 19 13)				
33 71 19 13-0061	EA	3'-6" x 2'-9" x 2' Deep Property Line Box	5,850.87	482.03
33 71 19 13-0062	EA	4'-6" x 3'-6" x 4' Deep Property Line Box	6,884.61	499.88
33 71 19 13-0063	EA	6' x 4' x 5' Deep Property Line Box	7,546.24	607.00
33 71 19 13-0064	EA	11'-6" x 4'-6" x 6' Deep Property Line Box	11,558.98	892.65
33 71 19 13-0065 Manhole Accessories (33 71 19 13)				
33 71 19 13-0066	EA	6" Precast Grade Ring Riser Casting.....	541.96	162.57
33 71 19 13-0067	EA	12" Precast Grade Ring Riser Casting.....	586.94	176.12
33 71 19 13-0068	EA	36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D)	2,297.57	270.95
33 71 19 13-0069	EA	42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....	2,995.26	338.69
33 71 19 13-0070	EA	Cast Iron Adjusting Ring (NEENAH #R-1979).....	983.12	180.87
33 71 19 13-0071	EA	Cast Iron Frame And Cover (NEENAH #R-1640-B)	1,244.83	203.21
33 71 19 23 Trenched Electrical Underground Duct and Ductbanks (33 71 19)				
33 71 19 23-0001 Underground Ductbank (33 71 19 23)				
Note: Installation of single or multiple configuration underground utility raceways assembly to have minimum 3" concrete leveling base and encased in concrete envelope. Based on minimum 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations. See CSI section 03 30 53 00-0001 for concrete.				
33 71 19 23-0002 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (33 71 19 23-0001)				
Note: Includes appropriate spacers and fittings.				
33 71 19 23-0003	LF	2 At 2", Rigid Galvanized Conduit Duct Bank	38.02	
33 71 19 23-0004	LF	4 At 2", Rigid Galvanized Conduit Duct Bank	76.08	
33 71 19 23-0005	LF	2 At 3", Rigid Galvanized Conduit Duct Bank	78.32	
33 71 19 23-0006	LF	4 At 3", Rigid Galvanized Conduit Duct Bank	157.10	
33 71 19 23-0007	LF	2 At 4", Rigid Galvanized Conduit Duct Bank	115.29	
33 71 19 23-0008	LF	4 At 4", Rigid Galvanized Conduit Duct Bank	231.82	
33 71 19 23-0009	LF	6 At 4", Rigid Galvanized Conduit Duct Bank	348.50	
33 71 19 23-0010	LF	2 At 5", Rigid Galvanized Conduit Duct Bank	216.03	
33 71 19 23-0011	LF	4 At 5", Rigid Galvanized Conduit Duct Bank	430.82	
33 71 19 23-0012	LF	6 At 5", Rigid Galvanized Conduit Duct Bank	663.17	
33 71 19 23-0013	LF	2 At 6", Rigid Galvanized Conduit Duct Bank	307.05	
33 71 19 23-0014	LF	4 At 6", Rigid Galvanized Conduit Duct Bank	616.35	
33 71 19 23-0015	LF	6 At 6", Rigid Galvanized Conduit Duct Bank	917.03	
33 71 19 23-0016 Polyvinyl Chloride (PVC), Type EB-20 Duct Bank System (33 71 19 23-0001)				
Note: Includes appropriate spacers and fittings.				
33 71 19 23-0017	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	8.71	
33 71 19 23-0018	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	19.15	
33 71 19 23-0019	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	36.76	
33 71 19 23-0020	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	11.53	
33 71 19 23-0021	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	23.03	
33 71 19 23-0022	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	46.77	

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 23-0023 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	15.40	
33 71 19 23-0024 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	30.81	
33 71 19 23-0025 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	61.69	
33 71 19 23-0026 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	92.51	
33 71 19 23-0027 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	19.44	
33 71 19 23-0028 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	38.84	
33 71 19 23-0029 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	75.19	
33 71 19 23-0030 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	106.58	
33 71 19 23-0031 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	34.59	
33 71 19 23-0032 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	52.60	
33 71 19 23-0033 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	105.44	
33 71 19 23-0034 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	170.56	
33 71 19 23-0035 Polyvinyl Chloride (PVC), Type DB-60 Duct Bank System (33 71 19 23-0001)		
Note: Includes appropriate spacers and fittings.		
33 71 19 23-0036 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	9.67	
33 71 19 23-0037 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	21.16	
33 71 19 23-0038 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	40.50	
33 71 19 23-0039 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	11.96	
33 71 19 23-0040 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	23.91	
33 71 19 23-0041 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	47.66	
33 71 19 23-0042 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	15.76	
33 71 19 23-0043 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	31.53	
33 71 19 23-0044 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	63.13	
33 71 19 23-0045 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	94.67	
33 71 19 23-0046 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	19.98	
33 71 19 23-0047 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	39.93	
33 71 19 23-0048 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	77.35	
33 71 19 23-0049 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	109.83	
33 71 19 23-0050 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	35.34	
33 71 19 23-0051 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	54.16	
33 71 19 23-0052 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	108.56	
33 71 19 23-0053 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	175.23	
33 71 19 23-0054 Male Or Female Adapters (33 71 19 23-0001)		
33 71 19 23-0055 EA 2" Adapter.....	46.60	
33 71 19 23-0056 EA 3" Adapter.....	67.09	
33 71 19 23-0057 EA 4" Adapter.....	86.67	
33 71 19 23-0058 EA 5" Adapter.....	132.33	
33 71 19 23-0059 EA 6" Adapter.....	163.75	
33 71 19 23-0060 Underground Cable Protection Slab And Marking (33 71 19 23)		
33 71 19 23-0061 EA 24" x 12", 2" Concrete, Underground Cable Protection	6.05	
33 71 19 23-0062 Underground Electrical Concrete Markers (33 71 19 23)		
33 71 19 23-0063 EA 36" x 6" x 6", Underground Electric Concrete Marker	403.43	

END OF SECTION 33



Transportation		34
Operation and Maintenance of Transportation		34 01
Operation and Maintenance of Railways		34 01 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 Transportation

34 01 Operation and Maintenance of Transportation ⁽³⁴⁾

34 01 23 Operation and Maintenance of Railways ^(34 01)

34 01 23 33 Track Realignment ^(34 01 23)

34 01 23 33-0001 Realign Railroad Track ^(34 01 23 33)

34 01 23 33-0002	LF	Removal Of Track Rails And Ties And Re-Install Including New Bolts And Spikes	109.81
34 01 23 33-0003	EA	Removal Of Railroad Track Turnouts And Re-install Including New Bolts And Spikes.....	5,375.21

34 01 43 Operation and Maintenance of Bridges ^(34 01)

34 01 43 00-0001 Repair Of Bridge Posts ^(34 01 43)

34 01 43 00-0002	SF	Chipping Of Concrete To Expose Rebar	39.24
34 01 43 00-0003	EA	Removal And Replacement Of Concrete Post, 20" x 20" Square, 36" To 42" High	2,359.68
Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.			
34 01 43 00-0004	EA	Repair Bearing Pad	840.79

34 01 43 00-0005 Repair Of Bridge Rails ^(34 01 43)

34 01 43 00-0006	EA	Repair Concrete Rail Supports	418.33
34 01 43 00-0007	LF	Repair Guardrail	156.87
34 01 43 00-0008	LF	Repair Bridge Parapet Wall	261.45
34 01 43 00-0009	LF	Repair Bridge Rail.....	102.14
34 01 43 00-0010	LF	Repair Damaged Metal Rail And Posts	54.07
34 01 43 00-0011	LF	Removal And Replacement Of 1-1/2" Galvanized Metal Rail	63.79
34 01 43 00-0012	LF	Removal And Replacement Of 2-1/2" Galvanized Metal Rail	86.80
34 01 43 00-0013	LF	Removal And Replacement Of 3" Galvanized Metal Rail	99.21

34 01 43 00-0014 Repair Of Bridge ^(34 01 43)

34 01 43 00-0015	LF	Repair Of Expansion Joints On Bridge	24.93

34 01 43 00-0016 Repair Of Bridge Parapet ^(34 01 43)

34 01 43 00-0017	DAY	Minimum for Stone Bridge Parapet Repair	2,896.19
Note: Includes removing and resetting of existing stone, new stone, including Capstone. Wet or Dry Mortar. Includes chipping, sandblasting and Jackhammer.			
34 01 43 00-0018	CF	Stone Bridge Parapet Repair Removing And Resetting Existing Stone And Capstone	399.03
Note: Includes removing loose stones and mortar, chipping, sandblasting Jackhammer.			
For Mortar, Add Per CF			50.00
34 01 43 00-0019	CF	Stone Bridge Parapet Repair Using New Stone And Masonry	483.83
Note: Includes removing loose stones and mortar, chipping, sandblasting Jackhammer.			
For Mortar, Add Per CF			50.00
34 01 43 00-0020	SF	Removing and Resetting Existing 24" Capstones.....	128.72
Note: Includes chipping, jackhammering, sandblasting, cleaning.			
For Mortar, Add Per CF			50.00
34 01 43 00-0021	SF	Removing and Resetting Existing 30" Capstones.....	160.90
Note: Includes chipping, jackhammering, sandblasting, cleaning.			
For Mortar, Add Per CF			50.00
34 01 43 00-0022	SF	Removing and Resetting Existing 36" Capstones.....	193.08
Note: Includes chipping, jackhammering, sandblasting, cleaning.			
For Mortar, Add Per CF			50.00

34 05 Common Work Results for Transportation ⁽³⁴⁾

34 05 43 Common Work Results for Bridges ^(34 05)

34 05 43 00-0001 Mobilize Bridge Crew ^(34 05 43)

Note: Excludes mobilize jacking crew.			
34 05 43 00-0002	EA	Mobilize Bridge Crew	1,481.03

34 05 43 00-0003 Remove And Patch Bridge And Structures Concrete ^(34 05 43)

Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.			

34 05 43 00-0004 Remove And Patch Decks Or Floors ^(34 05 43 00-0003)

Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.			
34 05 43 00-0005	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material	2,587.62
34 05 43 00-0006	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material	109.80
34 05 43 00-0007	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material.....	2,669.63

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0008 SF Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	114.92	
34 05 43 00-0009 EA Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	2,651.48	
34 05 43 00-0010 SF Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	113.79	
34 05 43 00-0011 EA Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	4,041.55	
<i>For Owner Furnished Material, Deduct</i>	-1,703.78	
34 05 43 00-0012 SF Remove And Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	200.67	
<i>For Owner Furnished Material, Deduct</i>	-106.47	
34 05 43 00-0013 Remove And Patch Verticals Or Overheads (34 05 43 00-0003)		
Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0014 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	3,049.24	
34 05 43 00-0015 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	132.88	
34 05 43 00-0016 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	3,131.25	
34 05 43 00-0017 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	138.00	
34 05 43 00-0018 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	3,113.10	
34 05 43 00-0019 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	136.87	
34 05 43 00-0020 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	4,503.17	
<i>For Owner Furnished Material, Deduct</i>	-1,703.78	
34 05 43 00-0021 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	223.75	
<i>For Owner Furnished Material, Deduct</i>	-106.47	
34 05 43 00-0022 Remove And Patch Pier Caps And Pedestals (34 05 43 00-0003)		
Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0023 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material	3,510.86	
34 05 43 00-0024 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material	150.19	
34 05 43 00-0025 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	3,592.87	
34 05 43 00-0026 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	155.31	
34 05 43 00-0027 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	3,574.72	
34 05 43 00-0028 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	154.18	
34 05 43 00-0029 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)	4,964.79	
<i>For Owner Furnished Material, Deduct</i>	-1,703.78	
34 05 43 00-0030 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)	241.06	
<i>For Owner Furnished Material, Deduct</i>	-106.47	
34 05 43 00-0031 Remove And Patch Circular Piers (34 05 43 00-0003)		
Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0032 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	4,203.29	
34 05 43 00-0033 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	167.50	
34 05 43 00-0034 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	4,285.30	
34 05 43 00-0035 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	172.62	
34 05 43 00-0036 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	4,267.15	
34 05 43 00-0037 SF Remove And Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	190.79	
34 05 43 00-0038 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	5,657.22	
<i>For Owner Furnished Material, Deduct</i>	-1,703.78	
34 05 43 00-0039 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	258.37	
<i>For Owner Furnished Material, Deduct</i>	-106.47	
34 05 43 00-0040 Fiber Reinforced Shotcrete Repair For Bridges (34 05 43)		
34 05 43 00-0041 EA Mobilize Fiber Reinforced Shotcrete Repair Crew	946.12	
34 05 43 00-0042 SF Up To 2" Thick, Fiber Reinforced Shotcrete Repair	58.41	
<i>For Up To 25, Add</i>	28.39	
<i>For >25 To 50, Add</i>	14.19	
<i>For >50 To 150, Add</i>	5.68	
34 05 43 00-0043 SF >2" To 4" Thick, Fiber Reinforced Shotcrete Repair	69.51	
<i>For Up To 25, Add</i>	33.12	
<i>For >25 To 50, Add</i>	16.56	
<i>For >50 To 150, Add</i>	6.62	
34 05 43 00-0044 SF >4" To 6" Thick, Fiber Reinforced Shotcrete Repair	80.62	
<i>For Up To 25, Add</i>	37.85	
<i>For >25 To 50, Add</i>	18.93	
<i>For >50 To 150, Add</i>	7.57	
34 05 43 00-0045 Bridge Railing (34 05 43)		
34 05 43 00-0046 Remove And Store Bridge Railings (34 05 43 00-0045)		
See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0047 LF Removal And Storage Of One Rail Bridge Railing	8.23	
34 05 43 00-0048 LF Removal And Storage Of Two Rail Bridge Railing	16.48	
34 05 43 00-0049 LF Removal And Storage Of Three Rail Bridge Railing	24.71	
34 05 43 00-0050 LF Removal And Storage Of Four Rail Bridge Railing	32.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0051			Install Stored Or Supplied Bridge Railings (34 05 43 00-0045) See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0052	LF		Install Stored Or Supplied One Rail Bridge Railing.....	69.40	
34 05 43 00-0053	LF		Install Stored Or Supplied Two Rail Bridge Railing.....	138.79	
34 05 43 00-0054	LF		Install Stored Or Supplied Three Rail Bridge Railing.....	208.19	
34 05 43 00-0055	LF		Install Stored Or Supplied Four Rail Bridge Railing.....	277.59	
34 05 43 00-0056			Bridge Bearings (34 05 43) Note: Excludes drilling and anchor bolts.		
34 05 43 00-0057			Elastomeric Bearings (34 05 43 00-0056)		
34 05 43 00-0058	EA		Plain Elastomeric, Type EP Bearing, 716-10, All Loads.....	1,284.16	355.45
34 05 43 00-0059	EA		Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K.....	1,934.51	710.89
			For >100K To 250K Load, Add.....	95.70	
			For >250K To 500K Load, Add.....	191.41	
			For >500K To 750K Load, Add.....	287.11	
34 05 43 00-0060	EA		Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K.....	4,369.25	1,066.35
			For >100K To 250K Load, Add.....	290.30	
			For >250K To 500K Load, Add.....	580.61	
			For >500K To 750K Load, Add.....	870.91	
34 05 43 00-0061			Fixed Structural Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0062	EA		100K To 250K Fixed Structural Pot Bearing.....	3,806.48	
34 05 43 00-0063	EA		>250K To 500K Fixed Structural Pot Bearing.....	5,826.49	
34 05 43 00-0064	EA		>500K To 750K Fixed Structural Pot Bearing.....	7,846.49	
34 05 43 00-0065			Universal Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0066	EA		100K To 250K Universal Structural Pot Bearing.....	4,736.82	
34 05 43 00-0067	EA		>250K To 500K Universal Structural Pot Bearing.....	7,256.10	
34 05 43 00-0068	EA		>500K To 750K Universal Structural Pot Bearing.....	9,779.80	
34 05 43 00-0069			Guided Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0070	EA		100K To 250K Guided Structural Pot Bearing.....	4,904.79	
34 05 43 00-0071	EA		>250K To 500K Guided Structural Pot Bearing.....	7,507.99	
34 05 43 00-0072	EA		>500K To 750K Guided Structural Pot Bearing.....	10,115.63	
34 05 43 00-0073			Remove, Repair And Install Bridge Bearings (34 05 43 00-0056)		
34 05 43 00-0074			Remove Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0075	EA		100K To 250K Structural Bearing Removal.....	510.95	
34 05 43 00-0076	EA		>250K To 500K Structural Bearing Removal.....	1,021.92	
34 05 43 00-0077	EA		>500K To 750K Structural Bearing Removal.....	1,532.87	
34 05 43 00-0078			Install And Set Supplied Or Restored Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0079	EA		100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing.....	766.43	
34 05 43 00-0080	EA		>250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing.....	1,532.87	
34 05 43 00-0081	EA		>500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing.....	2,299.30	
34 05 43 00-0082			Power Wash And Paint Structural Bearings (34 05 43 00-0073) Note: Includes bearing plates.		
34 05 43 00-0083	EA		100K To 250K Structural Bearing - Power Wash And Paint.....	1,195.28	
34 05 43 00-0084	EA		>250K To 500K Structural Bearing - Power Wash And Paint.....	1,350.14	
34 05 43 00-0085	EA		>500K To 750K Structural Bearing - Power Wash And Paint.....	1,504.98	
34 05 43 00-0086			Power Wash, Mechanically Clean And Paint Structural Bearings (34 05 43 00-0073) Note: Includes bearing plates. Excludes paint removal.		
34 05 43 00-0087	EA		100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint.....	1,590.27	
			For Vacuum Contained Cleaning, Add.....	394.95	
34 05 43 00-0088	EA		>250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint.....	1,794.45	
			For Vacuum Contained Cleaning, Add.....	444.31	
34 05 43 00-0089	EA		>500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint.....	1,998.16	
			For Vacuum Contained Cleaning, Add.....	493.55	
34 05 43 00-0090			Power Wash And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0091	EA		100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	745.75	
34 05 43 00-0092	EA		>250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	897.21	
34 05 43 00-0093	EA		>500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	1,048.69	
34 05 43 00-0094			Power Wash, Mechanically Clean And Paint Only Bearing Plates (34 05 43 00-0073)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0095 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	994.49	
For Vacuum Contained Cleaning, Add	246.85	
34 05 43 00-0096 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	1,193.42	
For Vacuum Contained Cleaning, Add	296.21	
34 05 43 00-0097 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	1,391.91	
For Vacuum Contained Cleaning, Add	345.45	
34 05 43 00-0098 Sand Blast And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0099 EA 100K To 250K Structural Bearing - Sand Blast And Paint	1,906.18	
For Vacuum Contained Cleaning, Add	473.93	
34 05 43 00-0100 EA >250K To 500K Structural Bearing - Sand Blast And Paint	2,149.89	
For Vacuum Contained Cleaning, Add	533.17	
34 05 43 00-0101 EA >500K To 750K Structural Bearing - Sand Blast And Paint	2,393.60	
For Vacuum Contained Cleaning, Add	592.41	
34 05 43 00-0102 Sand Blast And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0103 EA 100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,191.91	
For Vacuum Contained Cleaning, Add	296.21	
34 05 43 00-0104 EA >250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,430.39	
For Vacuum Contained Cleaning, Add	355.45	
34 05 43 00-0105 EA >500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,668.86	
For Vacuum Contained Cleaning, Add	414.69	
34 05 43 00-0106 Grease Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0107 EA 100K To 250K Structural Bearing - Grease	74.05	
34 05 43 00-0108 EA >250K To 500K Structural Bearing - Grease	111.08	
34 05 43 00-0109 EA >500K To 750K Structural Bearing - Grease	148.11	
34 05 43 00-0110 Replace Bronze Plate Wearing Pad (34 05 43 00-0073)		
34 05 43 00-0111 SF Removal And Replacement Of Bronze Plate Wearing Pad	493.21	
34 05 43 00-0112 Bridge Bearing Rivet Removal (34 05 43 00-0073)		
See CSI section 02 41 19 13-0080 for reaming of hole, 34 05 43 00-0343 for anchors and grouting.		
34 05 43 00-0113 EA Bridge Bearing Rivet Removal	296.20	
34 05 43 00-0114 Bridge Pintels, Side Keeper, And Shim Plates (34 05 43)		
34 05 43 00-0115 EA Removal And Replacement Of Bridge Pintel	295.73	
34 05 43 00-0116 EA Removal And Replacement Of Bridge Side Keeper	302.09	
34 05 43 00-0117 EA Refabricate And Install Shim Plates At One Bearing	183.06	
34 05 43 00-0118 EA Refabricate And Install Beveled Shim Plates At One Bearing	183.06	
34 05 43 00-0119 EA Refabricate And Install Finger Shim Plates At One Bearing	183.06	
34 05 43 00-0120 Vertical Jacking And Lifting For Bridges (34 05 43)		
Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 03 01 30 71-0000 for concrete repair, 05 12 23 00-0000 for temporary steel members.		
34 05 43 00-0121 Mobilize Jacking Crew And Equipment (34 05 43 00-0120)		
Note: Includes removing equipment after completion.		
34 05 43 00-0122 EA Mobilize Bridge Jacking Crew and Equipment.....	2,665.86	
For Temporary Support Mobilization, Add	5,331.72	
34 05 43 00-0123 Vertical Jacking And Lifting Per Point of Contact (34 05 43 00-0120)		
Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.		
34 05 43 00-0124 EA Up To 10 Ton Jack, Per Point Of Contact.....	444.31	
For Synchronized Lift, Add	88.86	
For Jacking From Temporary Support, Add	177.72	
34 05 43 00-0125 EA >10 To 20 Ton Jack, Per Point Of Contact	518.36	
For Synchronized Lift, Add	103.67	
For Jacking From Temporary Support, Add	207.34	
34 05 43 00-0126 EA >20 To 40 Ton Jack, Per Point Of Contact	592.41	
For Synchronized Lift, Add	118.48	
For Jacking From Temporary Support, Add	236.96	
34 05 43 00-0127 EA >40 To 60 Ton Jack, Per Point Of Contact	666.46	
For Synchronized Lift, Add	133.29	
For Jacking From Temporary Support, Add	266.58	
34 05 43 00-0128 EA >60 To 80 Ton Jack, Per Point Of Contact	740.52	
For Synchronized Lift, Add	148.10	
For Jacking From Temporary Support, Add	296.21	
34 05 43 00-0129 EA >80 To 100 Ton Jack, Per Point Of Contact	814.57	
For Synchronized Lift, Add	162.91	
For Jacking From Temporary Support, Add	325.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0130 EA >100 To 120 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	888.61 177.72 355.44	
34 05 43 00-0131 EA >120 To 140 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	925.64 185.13 370.26	
34 05 43 00-0132 EA >140 To 160 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	962.67 192.53 385.07	
34 05 43 00-0133 EA >160 To 250 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	962.67 192.53 385.07	
34 05 43 00-0134 EA >250 To 300 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	1,036.72 207.34 414.69	
34 05 43 00-0135 EA >300 To 400 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	1,110.78 222.16 444.31	
34 05 43 00-0136 EA >400 To 500 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	1,184.82 236.96 473.93	
34 05 43 00-0137 EA >500 To 600 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	1,258.87 251.77 503.55	
34 05 43 00-0138 Daily Charge For Vertical Jacking Equipment (34 05 43 00-0120) Note: Includes hydraulics and synchronizing equipment.		
34 05 43 00-0139 DAY Up To 10 Ton Jacking Equipment Charge By The Day	22.31	
34 05 43 00-0140 DAY >10 To 20 Ton Jacking Equipment Charge By The Day	44.62	
34 05 43 00-0141 DAY >20 To 40 Ton Jacking Equipment Charge By The Day	89.24	
34 05 43 00-0142 DAY >40 To 60 Ton Jacking Equipment Charge By The Day	133.87	
34 05 43 00-0143 DAY >60 To 80 Ton Jacking Equipment Charge By The Day	178.49	
34 05 43 00-0144 DAY >80 To 100 Ton Jacking Equipment Charge By The Day	223.11	
34 05 43 00-0145 DAY >100 To 120 Ton Jacking Equipment Charge By The Day	267.73	
34 05 43 00-0146 DAY >120 To 140 Ton Jacking Equipment Charge By The Day	312.35	
34 05 43 00-0147 DAY >140 To 160 Ton Jacking Equipment Charge By The Day	356.97	
34 05 43 00-0148 DAY >160 To 250 Ton Jacking Equipment Charge By The Day	407.34	
34 05 43 00-0149 DAY >250 To 300 Ton Jacking Equipment Charge By The Day	464.37	
34 05 43 00-0150 DAY >300 To 400 Ton Jacking Equipment Charge By The Day	588.20	
34 05 43 00-0151 DAY >400 To 500 Ton Jacking Equipment Charge By The Day	698.48	
34 05 43 00-0152 DAY >500 To 600 Ton Jacking Equipment Charge By The Day	796.29	
34 05 43 00-0153 Temporary Shoring (34 05 43 00-0120) Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.		
34 05 43 00-0154 HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0155 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	3,079.04	
34 05 43 00-0156 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,167.43	
34 05 43 00-0157 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	472.25	
34 05 43 00-0158 HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0159 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	3,193.03	
34 05 43 00-0160 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,037.04	
34 05 43 00-0161 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	453.03	
34 05 43 00-0162 HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0163 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	2,024.62	
34 05 43 00-0164 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	852.26	
34 05 43 00-0165 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	288.39	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0166		HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0167	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	5,840.40	
34 05 43 00-0168	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	3,344.11	
34 05 43 00-0169	EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	776.27	
34 05 43 00-0170		Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring (34 05 43 00-0153) Note: Excludes mats. See CSI section 01 22 23 00-0591 for mats.		
34 05 43 00-0171	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Set-up	6,297.82	
34 05 43 00-0172	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Relocation	2,344.28	
34 05 43 00-0173	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Take Down And Removal	1,184.83	
34 05 43 00-0174		Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring (34 05 43 00-0153) Note: Excludes mats. See CSI section 01 22 23 00-0591 for mats.		
34 05 43 00-0175	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Set-up	2,611.20	
34 05 43 00-0176	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	717.66	
34 05 43 00-0177	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	406.16	
34 05 43 00-0178		MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0179	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Set-up	2,865.62	
34 05 43 00-0180	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation	2,612.04	
34 05 43 00-0181	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal	396.55	
34 05 43 00-0182		MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0183	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Set-up	2,133.22	
34 05 43 00-0184	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Relocation	1,924.98	
34 05 43 00-0185	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal	326.85	
34 05 43 00-0186		Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0187	EA	Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Set-up	1,526.96	
34 05 43 00-0188		Temporary Bridge Shoring Components (34 05 43 00-0153) Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0041 for temporary lumber.		
34 05 43 00-0189		Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring (34 05 43 00-0188) Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.		
34 05 43 00-0190	LF	Fabricate And Install MC7 x 19.1 For Temporary Bridge Shoring	100.85	
34 05 43 00-0191	LF	Fabricate And Install MC18 x 51.9 For Temporary Bridge Shoring	246.92	
34 05 43 00-0192	LF	Fabricate And Install HP12 x 53 For Temporary Bridge Shoring	194.84	
34 05 43 00-0193	LF	Fabricate And Install HP12 x 63 For Temporary Bridge Shoring	218.51	
34 05 43 00-0194	LF	Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring	27.24	
		For Galvanized Steel, Add	6.62	
34 05 43 00-0195	LF	Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring	34.65	
		For Galvanized Steel, Add	9.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0196 LF Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring Note: Remove after use. <i>For Galvanized Steel, Add</i>	69.95 20.36	
34 05 43 00-0197 LF Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring Note: Remove after use. <i>For Galvanized Steel, Add</i>	60.64 18.24	
34 05 43 00-0198 LF Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring Note: Remove after use. <i>For Galvanized Steel, Add</i>	80.25 24.14	
34 05 43 00-0199 SF Fabricate And Install 5/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use. <i>For A50 Grade Steel, Add</i>	104.31 2.95	
34 05 43 00-0200 SF Fabricate And Install 7/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use. <i>For A50 Grade Steel, Add</i>	146.03 4.12	
34 05 43 00-0201 SF Fabricate And Install 1-3/8" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use. <i>For A50 Grade Steel, Add</i>	229.47 6.48	
34 05 43 00-0202 SF Fabricate And Install 1-1/2" A36 Steel Plates For Temporary Bridge Shoring Note: Remove after use. <i>For A50 Grade Steel, Add</i>	250.33 7.07	
34 05 43 00-0203 Relocate Temporary Steel Bridge Shoring (34 05 43 00-0188)		
Note: Includes removal after use.		
34 05 43 00-0204 EA Relocate Complete Temporary Steel Bridge Shoring	5,198.72	
Note: Remove after use. Includes relocating support matts. Excludes anchors, bolts or additional steel if required.		
34 05 43 00-0205 SF Relocate 1-3/8" A36 Steel Plates For Temporary Bridge Shoring	99.86	
Note: Remove after use.		
34 05 43 00-0206 LF Relocate HP12 x 63 For Temporary Bridge Shoring.....	83.18	
Note: Remove after use.		
34 05 43 00-0207 LF Relocate 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring.....	16.57	
Note: Remove after use.		
34 05 43 00-0208 LF Relocate 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring.....	20.12	
Note: Remove after use.		
34 05 43 00-0209 LF Relocate 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring.....	41.32	
Note: Remove after use.		
34 05 43 00-0210 SF Relocate 7/8" A36 Steel Plates For Temporary Bridge Shoring.....	63.55	
Note: Remove after use.		
34 05 43 00-0211 LF Relocate MC7 x 19.1 For Temporary Bridge Shoring.....	48.23	
Note: Remove after use.		
34 05 43 00-0212 LF Relocate HP12 x 53 For Temporary Bridge Shoring.....	81.44	
Note: Remove after use.		
34 05 43 00-0213 SF Relocate 5/8" A36 Steel Plates For Temporary Bridge Shoring.....	45.40	
Note: Remove after use.		
34 05 43 00-0214 LF Relocate 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring.....	37.11	
Note: Remove after use.		
34 05 43 00-0215 SF Relocate 1-1/2" A36 Steel Plates For Temporary Bridge Shoring	108.94	
Note: Remove after use.		
34 05 43 00-0216 LF Relocate MC18 x 51.9 For Temporary Bridge Shoring	139.21	
Note: Remove after use.		
34 05 43 00-0217 LF Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring.....	31.22	
Note: Remove after use.		
34 05 43 00-0218 Pier Caps And Pedestal Replacement For Bridges (34 05 43)		
See CSI section 03 15 19 00-0001 for anchor bolts.		
34 05 43 00-0219 SF Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas For Bridges.....	33.04	
34 05 43 00-0220 CWT Rebar For Pier Cap Or Pedestals For Bridges	529.36	
34 05 43 00-0221 CY Pour Pedestals For Bridges	436.50	
34 05 43 00-0222 CY Demolish Concrete Pedestals For Bridges	4,855.00	
34 05 43 00-0223 CY Pour Pier Cap For Bridges.....	516.15	
34 05 43 00-0224 CY Demolish Concrete Pier Cap For Bridges.....	5,582.71	
34 05 43 00-0225 Bridge Deck Repair (34 05 43)		
34 05 43 00-0226 Bridge Expansion Joint Repair (34 05 43 00-0225)		
Note: Replace header with semi-flexible polymer nosing system. Includes saw cutting, chipping, sandblasting, forming, backer rod cleaning, primer and debris removal. Excludes disposal.		
34 05 43 00-0227 CF Removal And Replacement Of Header With Semi-Flexible Polymer Nosing System For Bridge Expansion Joint Repair.....	1,007.94	
34 05 43 00-0228 CF Removal And Replacement Of Header With Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Expansion Joint Repair.....	240.07	
Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.		
<i>For Up To 24, Add</i>		
34 05 43 00-0229 CF Removal And Replacement Of Header With Polyester-Based Polymer Patch For Bridge Expansion Joint Repair.....	245.17	
Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.		
<i>For Up To 24, Add</i>		
34 05 43 00-0230 CI Seal Expansion Joints With Rapid Cure Silicone For Bridge Expansion Joint Repair	7.66	
34 05 43 00-0231 CI Seal Expansion Joints With Closed Cell Foam/EVA For Bridge Expansion Joint Repair	0.89	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0232	LF	Seal Expansion Joints With "V" Shape Preformed Silicone For Bridge Expansion Joint Repair.....	100.62	
		For >1,000 To 2,500, Deduct	-10.06	
		For >2,500, Deduct	-16.42	
34 05 43 00-0233	LF	Seal Expansion Joints With "W" Shape Preformed Silicone For Bridge Expansion Joint Repair.....	106.63	
		For >1,000 To 2,500, Deduct	-10.66	
		For >2,500, Deduct	-17.32	
34 05 43 00-0234 Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element				
For Concrete Bridge Deck (34 05 43 00-0225)				
Note: Includes steel profile and neoprene seal element. Demolition includes saw cutting and disposal of existing strip seal but excludes concrete removal.				
34 05 43 00-0235	LF	1-1/4" x 3-3/4" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	207.07	
		For >1,000 To 2,500, Deduct	-20.71	
		For >2,500, Deduct	-35.20	
34 05 43 00-0236	LF	1-7/8" x 8" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	235.18	
		For >1,000 To 2,500, Deduct	-23.52	
		For >2,500, Deduct	-39.58	
34 05 43 00-0237	LF	1-1/4" x 2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	184.81	
		For >1,000 To 2,500, Deduct	-18.48	
		For >2,500, Deduct	-31.69	
34 05 43 00-0238	LF	1" x 1-1/2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	182.51	
		For >1,000 To 2,500, Deduct	-18.25	
		For >2,500, Deduct	-31.35	
34 05 43 00-0239 Silicone Joint Sealant For Concrete Bridge Deck (34 05 43 00-0225)				
Note: Installation includes saw cutting, high pressure water wash, sand blast, sweeping, cleaning area, backer rod and silicone sealant.				
34 05 43 00-0240	LF	1" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	30.10	
		For >1,000 To 2,500, Deduct	-3.01	
		For >2,500, Deduct	-5.42	
34 05 43 00-0241	LF	1-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	39.18	
		For >1,000 To 2,500, Deduct	-3.92	
		For >2,500, Deduct	-6.80	
34 05 43 00-0242	LF	2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	55.00	
		For >1,000 To 2,500, Deduct	-5.50	
		For >2,500, Deduct	-9.18	
34 05 43 00-0243	LF	2-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	58.86	
		For >1,000 To 2,500, Deduct	-5.89	
		For >2,500, Deduct	-9.78	
34 05 43 00-0244 V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck (34 05 43 00-0225)				
Note: Includes saw cutting, sand blasting, conditioner, epoxy, and backer rod.				
34 05 43 00-0245	LF	3" Remove And Replace V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck	98.75	
		For >1,000 To 2,500, Deduct	-9.88	
		For >2,500, Deduct	-17.46	
34 05 43 00-0246	LF	4" Remove And Replace V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck	104.29	
		For >1,000 To 2,500, Deduct	-10.43	
		For >2,500, Deduct	-18.42	
34 05 43 00-0247 J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck (34 05 43 00-0225)				
Note: Includes saw cutting, sand blasting, conditioner, and epoxy.				
34 05 43 00-0248	LF	2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	100.13	
		For >1,000 To 2,500, Deduct	-10.01	
		For >2,500, Deduct	-17.44	
34 05 43 00-0249	LF	2-1/2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	119.00	
		For >1,000 To 2,500, Deduct	-11.90	
		For >2,500, Deduct	-20.38	
34 05 43 00-0250	LF	3" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	147.06	
		For >1,000 To 2,500, Deduct	-14.71	
		For >2,500, Deduct	-24.71	
34 05 43 00-0251	LF	3-1/2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	178.27	
		For >1,000 To 2,500, Deduct	-17.83	
		For >2,500, Deduct	-29.52	
34 05 43 00-0252	LF	4" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	199.00	
		For >1,000 To 2,500, Deduct	-19.90	
		For >2,500, Deduct	-32.76	
34 05 43 00-0253	LF	5" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	366.09	
		For >1,000 To 2,500, Deduct	-36.61	
		For >2,500, Deduct	-58.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0254			Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck (34 05 43 00-0225) Note: Includes saw cutting, sand blasting, and lubricant adhesive.		
34 05 43 00-0255	LF		1-1/4" x 1-1/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	53.16	
			For >1,000 To 2,500, Deduct	-5.32	
			For >2,500, Deduct	-10.17	
34 05 43 00-0256	LF		1-5/8" x 1-7/8" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	57.70	
			For >1,000 To 2,500, Deduct	-5.77	
			For >2,500, Deduct	-10.96	
34 05 43 00-0257	LF		1-3/4" x 1-3/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	60.40	
			For >1,000 To 2,500, Deduct	-6.04	
			For >2,500, Deduct	-11.42	
34 05 43 00-0258	LF		2" x 2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	63.66	
			For >1,000 To 2,500, Deduct	-6.37	
			For >2,500, Deduct	-11.97	
34 05 43 00-0259	LF		2-1/2" x 2-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	71.66	
			For >1,000 To 2,500, Deduct	-7.17	
			For >2,500, Deduct	-13.28	
34 05 43 00-0260	LF		3" x 3-1/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	82.01	
			For >1,000 To 2,500, Deduct	-8.20	
			For >2,500, Deduct	-14.95	
34 05 43 00-0261	LF		3-1/2" x 3-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	96.31	
			For >1,000 To 2,500, Deduct	-9.63	
			For >2,500, Deduct	-17.22	
34 05 43 00-0262	LF		4" x 4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	110.85	
			For >1,000 To 2,500, Deduct	-11.09	
			For >2,500, Deduct	-19.54	
34 05 43 00-0263	LF		4-1/2" x 4-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	116.94	
			For >1,000 To 2,500, Deduct	-11.69	
			For >2,500, Deduct	-20.59	
34 05 43 00-0264	LF		5" x 5" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	133.61	
			For >1,000 To 2,500, Deduct	-13.36	
			For >2,500, Deduct	-23.23	
34 05 43 00-0265	LF		6" x 6" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	190.18	
			For >1,000 To 2,500, Deduct	-19.02	
			For >2,500, Deduct	-31.86	
34 05 43 00-0266			Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck (34 05 43 00-0225) Note: Includes saw cutting, sand blasting and epoxy.		
34 05 43 00-0267	LF		1/2" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	46.35	
			For >1,000 To 2,500, Deduct	-4.64	
			For >2,500, Deduct	-8.95	
34 05 43 00-0268	LF		5/8" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	47.66	
			For >1,000 To 2,500, Deduct	-4.77	
			For >2,500, Deduct	-9.20	
34 05 43 00-0269	LF		3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	48.96	
			For >1,000 To 2,500, Deduct	-4.90	
			For >2,500, Deduct	-9.44	
34 05 43 00-0270	LF		1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	50.63	
			For >1,000 To 2,500, Deduct	-5.06	
			For >2,500, Deduct	-9.74	
34 05 43 00-0271	LF		1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	52.34	
			For >1,000 To 2,500, Deduct	-5.23	
			For >2,500, Deduct	-10.05	
34 05 43 00-0272	LF		1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	71.04	
			For >1,000 To 2,500, Deduct	-7.10	
			For >2,500, Deduct	-12.91	
34 05 43 00-0273	LF		1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	75.58	
			For >1,000 To 2,500, Deduct	-7.56	
			For >2,500, Deduct	-13.70	
34 05 43 00-0274	LF		2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	78.38	
			For >1,000 To 2,500, Deduct	-7.84	
			For >2,500, Deduct	-14.18	
34 05 43 00-0275	LF		2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	82.68	
			For >1,000 To 2,500, Deduct	-8.27	
			For >2,500, Deduct	-14.88	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0276	LF	2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	87.52	
		For >1,000 To 2,500, Deduct	-8.75	
		For >2,500, Deduct	-15.66	
34 05 43 00-0277	LF	2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	92.61	
		For >1,000 To 2,500, Deduct	-9.26	
		For >2,500, Deduct	-16.48	
34 05 43 00-0278	LF	3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	95.32	
		For >1,000 To 2,500, Deduct	-9.53	
		For >2,500, Deduct	-16.95	
34 05 43 00-0279	LF	3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	103.84	
		For >1,000 To 2,500, Deduct	-10.38	
		For >2,500, Deduct	-18.29	
34 05 43 00-0280	LF	3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	110.96	
		For >1,000 To 2,500, Deduct	-11.10	
		For >2,500, Deduct	-19.42	
34 05 43 00-0281	LF	3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	117.07	
		For >1,000 To 2,500, Deduct	-11.71	
		For >2,500, Deduct	-20.40	
34 05 43 00-0282	LF	4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	119.91	
		For >1,000 To 2,500, Deduct	-11.99	
		For >2,500, Deduct	-20.89	
34 05 43 00-0283	EA	3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	154.90	
34 05 43 00-0284	EA	1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	159.71	
34 05 43 00-0285	EA	1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	182.59	
34 05 43 00-0286	EA	1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	190.18	
34 05 43 00-0287	EA	1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	196.89	
34 05 43 00-0288	EA	2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	223.26	
34 05 43 00-0289	EA	2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	229.23	
34 05 43 00-0290	EA	2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	236.16	
34 05 43 00-0291	EA	2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	243.46	
34 05 43 00-0292	EA	3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	277.39	
34 05 43 00-0293	EA	3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	290.62	
34 05 43 00-0294	EA	3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	301.42	
34 05 43 00-0295	EA	3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	310.54	
34 05 43 00-0296	EA	4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	314.95	
34 05 43 00-0297		Remove Existing Steel Joint System (34 05 43 00-0225)		
34 05 43 00-0298	LF	Removal Of Existing Steel Joint System.....	72.10	
34 05 43 00-0299		Break-Up And Remove Bridge Decking By Machine (34 05 43 00-0225)		
		Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting, See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0300	SY	Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine.....	23.57	
		For >500 To 1,000, Deduct	-2.36	
		For >1,000 To 2,500, Deduct	-4.24	
		For >2,500 To 5,000, Deduct	-6.13	
		For >5,000 To 10,000, Deduct	-8.01	
		For >10,000, Deduct	-9.90	
34 05 43 00-0301	SY	Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine.....	32.18	
		For >500 To 1,000, Deduct	-3.22	
		For >1,000 To 2,500, Deduct	-5.79	
		For >2,500 To 5,000, Deduct	-8.37	
		For >5,000 To 10,000, Deduct	-10.94	
		For >10,000, Deduct	-13.52	
34 05 43 00-0302	SY	Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine.....	39.04	
		For >500 To 1,000, Deduct	-3.90	
		For >1,000 To 2,500, Deduct	-7.03	
		For >2,500 To 5,000, Deduct	-10.15	
		For >5,000 To 10,000, Deduct	-13.27	
		For >10,000, Deduct	-16.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0303	SY		Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine	50.19	
			For >500 To 1,000, Deduct	-5.02	
			For >1,000 To 2,500, Deduct	-9.03	
			For >2,500 To 5,000, Deduct	-13.05	
			For >5,000 To 10,000, Deduct	-17.06	
			For >10,000, Deduct	-21.08	
34 05 43 00-0304	SY		Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine	89.74	
			For >500 To 1,000, Deduct	-8.97	
			For >1,000 To 2,500, Deduct	-16.15	
			For >2,500 To 5,000, Deduct	-23.33	
			For >5,000 To 10,000, Deduct	-30.51	
			For >10,000, Deduct	-37.69	
34 05 43 00-0305	SY		Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine	117.12	
			For >500 To 1,000, Deduct	-11.71	
			For >1,000 To 2,500, Deduct	-21.08	
			For >2,500 To 5,000, Deduct	-30.45	
			For >5,000 To 10,000, Deduct	-39.82	
			For >10,000, Deduct	-49.19	
34 05 43 00-0306	SY		Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine	153.12	
			For >500 To 1,000, Deduct	-15.31	
			For >1,000 To 2,500, Deduct	-27.56	
			For >2,500 To 5,000, Deduct	-39.81	
			For >5,000 To 10,000, Deduct	-52.06	
			For >10,000, Deduct	-64.31	
34 05 43 00-0307	SY		Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine	185.83	
			For >500 To 1,000, Deduct	-18.58	
			For >1,000 To 2,500, Deduct	-33.45	
			For >2,500 To 5,000, Deduct	-48.32	
			For >5,000 To 10,000, Deduct	-63.18	
			For >10,000, Deduct	-78.05	
34 05 43 00-0308			Break-Up And Remove Bridge Decking By Hand (34 05 43 00-0225) Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0309	SF		Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand	15.06	
			Note: Includes jackhammer and hand tools.		
34 05 43 00-0310	SF		Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand	19.81	
			Note: Includes jackhammer and hand tools.		
34 05 43 00-0311	SF		Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand	25.75	
			Note: Includes jackhammer and hand tools.		
34 05 43 00-0312	SF		Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand	18.82	
			Note: Includes jackhammer and hand tools.		
34 05 43 00-0313	SF		Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand	23.52	
			Note: Includes jackhammer and hand tools.		
34 05 43 00-0314	SF		Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand	28.23	
			Note: Includes jackhammer and hand tools.		
34 05 43 00-0315	SF		Chipping And Cleaning Of Bridge Deck After Break-up And Removals.....	6.54	
34 05 43 00-0316			Hydro Blasting Of Bridge Decks (34 05 43 00-0225) Note: Excludes hauling and disposal of water and debris.		
34 05 43 00-0317	EA		Mobilization Of Hydro Blasting Equipment.....	16,080.60	
			Note: Includes trailer with power, hydro milling machine, vacuum machine.		
34 05 43 00-0318	EA		Mobilization Of Hydro Blasting Equipment.....	2,088.39	
			Note: Includes water tank, pump and miscellaneous fittings.		
34 05 43 00-0319	SF		Hydro Blasting Of Up To 2-1/2" Of Bridge Decks	13.67	
34 05 43 00-0320	SF		Vacuuming And Cleaning Of Bridge Decks Up To 2-1/2", Following Hydroblasting	10.10	
34 05 43 00-0321	SF		Chipping And Cleaning Of Bridge Deck After Hydro Blasting And Vacuum Up To 2-1/2"	2.50	
34 05 43 00-0322	SF		Hydro Blasting 3" To 4-1/2" Of Bridge Decks.....	20.22	
34 05 43 00-0323	SF		Vacuuming And Cleaning Of Bridge Decks 3" To 4-1/2", Following Hydro Blasting	13.67	
34 05 43 00-0324	SF		Chipping And Cleaning Of Bridge Deck After Hydro Blasting And Vacuum 3" To 4-1/2".....	6.54	
34 05 43 00-0325	GAL		Water For Hydro Blasting	0.20	
			Note: Includes delivery.		
34 05 43 00-0326			Patch For Bridge Deck (34 05 43 00-0225)		
34 05 43 00-0327	CF		Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Deck	106.90	
			Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		
34 05 43 00-0328	CF		Polyester-Based Polymer Patch For Bridge Deck	112.00	
			Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		
34 05 43 00-0329	SF		Hand Placed Hot Mixed Asphalt Repair For Bridge Approach.....	27.46	
			Note: Includes removal of HMA, tack coat, and installation of HMA and compaction by roller.		
34 05 43 00-0330			Pressure Washing For Bridge Deck (34 05 43 00-0225)		
34 05 43 00-0331	SF		Pressure Washing For Bridge Deck.....	0.11	
			Note: Includes pressure washer and water.		
34 05 43 00-0332			Galvanic Anodes For Bridges (34 05 43)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0333 EA 2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP).....	61.72	
Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0334 EA 4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT).....	61.72	
Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0335 EA 2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2).....	70.53	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0336 EA 4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4).....	77.22	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0337 EA 2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+).....	70.53	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0338 EA 1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65).....	72.76	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0339 EA 1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100).....	88.37	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0340 EA 1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135).....	81.68	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0341 Bridge Netting Panels (34 05 43)		
34 05 43 00-0342 SF Bridge Netting Panel.....	10.53	
Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.		
For Up To 160, Add	10.64	
For >160 To 320, Add	5.32	
For >320 To 480, Add	2.66	
For >2,000 To 10,000, Deduct	-0.46	
For >10,000 To 25,000, Deduct	-0.92	
For >25,000, Deduct	-1.38	
34 05 43 00-0343 Anchors For Bridges (34 05 43)		
Note: Excludes core drilling. See CSI section 02 41 19 13-0080 for core drilling.		
34 05 43 00-0344 Threaded Rod, A449 (34 05 43 00-0343)		
34 05 43 00-0345 LF 7/8" Diameter Continuous Threaded Rod, A449.....	22.32	
34 05 43 00-0346 LF 1" Diameter Continuous Threaded Rod, A449.....	26.54	
34 05 43 00-0347 LF 1-1/8" Diameter Continuous Threaded Rod, A449.....	30.74	
34 05 43 00-0348 LF 1-1/4" Diameter Continuous Threaded Rod, A449.....	38.81	
34 05 43 00-0349 Flat Washers, F436 (34 05 43 00-0343)		
34 05 43 00-0350 EA 7/8" Flat Washer, F436.....	2.43	
34 05 43 00-0351 EA 1" Flat Washer, F436.....	2.83	
34 05 43 00-0352 EA 1-1/8" Flat Washer, F436.....	3.12	
34 05 43 00-0353 EA 1-1/4" Flat Washer, F436.....	3.55	
34 05 43 00-0354 Heavy Hex Nut, A194 (34 05 43 00-0343)		
34 05 43 00-0355 EA 7/8" Hex Nut, A194.....	4.90	
34 05 43 00-0356 EA 1" Hex Nut, A194.....	6.63	
34 05 43 00-0357 EA 1-1/8" Hex Nut, A194.....	7.85	
34 05 43 00-0358 EA 1-1/4" Hex Nut, A194.....	9.39	
34 05 43 00-0359 Grout For Threaded Rod (34 05 43 00-0343)		
34 05 43 00-0360 IN Grout 7/8" Rod In Hole.....	3.32	
34 05 43 00-0361 IN Grout 1" Rod In Hole.....	3.78	
34 05 43 00-0362 IN Grout 1-1/8" Rod In Hole.....	4.41	
34 05 43 00-0363 IN Grout 1-1/4" Rod In Hole.....	5.29	
34 05 43 00-0364 Test Grouted Anchor (34 05 43 00-0343)		
34 05 43 00-0365 EA Test Grouted Anchor.....	37.55	
34 05 43 00-0366 Removal Of Fasteners Or Anchors In Concrete (34 05 43 00-0343)		
Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.		
34 05 43 00-0367 EA Drill Out 3/8" Diameter Fastener/Anchor In Concrete.....	31.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0368 EA Drill Out 1/2" Diameter Fastener/Anchor In Concrete	33.35	
34 05 43 00-0369 EA Drill Out 9/16" Diameter Fastener/Anchor In Concrete	34.96	
34 05 43 00-0370 EA Drill Out 5/8" Diameter Fastener/Anchor In Concrete	38.04	
34 05 43 00-0371 EA Drill Out 3/4" Diameter Fastener/Anchor In Concrete	41.60	
34 05 43 00-0372 EA Drill Out 7/8" Diameter Fastener/Anchor In Concrete	46.05	
34 05 43 00-0373 EA Drill Out 1" Diameter Fastener/Anchor In Concrete	48.70	
34 05 43 00-0374 EA Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete	51.84	
34 05 43 00-0375 EA Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete	55.77	
34 05 43 00-0376 EA Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete	62.58	
34 05 43 00-0377 Bridge Surfacing (34 05 43)		
34 05 43 00-0378 Bridge Coatings (34 05 43 00-0377)		
Note: Includes sweeping of bridge deck.		
34 05 43 00-0379 SF Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats)	1.29	
Note: Includes power washing and drying after power washing.		
34 05 43 00-0380 SF Protective Seal Coat For Existing Bridge Decks	2.36	
34 05 43 00-0381 SF Penetrating Sealer For Existing Bridge Decks	3.89	
34 05 43 00-0382 Bridge Membranes (34 05 43 00-0377)		
Note: Excludes abrasive blasting of deck.		
34 05 43 00-0383 SF Spray Applied Waterproofing Membrane For Bridge Decks	14.90	
34 05 43 00-0384 SF Sheet Applied Waterproofing Membrane For Bridge Decks	4.31	
34 05 43 00-0385 Sealer And Overlay For Bridge Deck (34 05 43 00-0377)		
Note: Excludes sweeping, cleaning and abrasive blasting.		
34 05 43 00-0386 SY Shot Blasting Bridge Decks	15.97	
Note: Includes steel ball media. Includes air cleaning of deck surface after shot blasting.		
34 05 43 00-0387 SY Thin Polymer (Epoxy) Overlay For Bridge Deck	99.18	
Note: Includes epoxy overlay applied in two coats with aggregate.		
34 05 43 00-0388 SY 3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	180.29	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0389 SY 1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	205.78	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0390 SY 1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	262.96	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0391 SY 2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	320.14	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0392 SY 2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	377.33	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0393 SY 3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	434.51	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0394 Broadcast Silica Sand (34 05 43 00-0377)		
Note: Includes removing loose sand.		
34 05 43 00-0395 SF Broadcast Silica Sand	0.33	
34 05 43 00-0396 Sweeping And Cleaning Of Bridge Deck (34 05 43 00-0377)		
See CSI section 01 22 23 00-1372 for water trucks, 01 22 23 00-1390 for vacuum sweeper trucks.		
34 05 43 00-0397 Concrete Overlay For Bridge Deck (34 05 43 00-0377)		
Note: Includes sweeping and cleaning. Excludes abrasive blasting.		
34 05 43 00-0398 SY 3" Concrete Overlay For Bridge Deck	195.64	
For DOT Class DP, Add	35.54	
For DOT Class E, Add	11.60	
For DOT Class HP, Add	33.93	
34 05 43 00-0399 Bridge Roadway Grooving (34 05 43 00-0377)		
34 05 43 00-0400 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	4,623.24	
34 05 43 00-0401 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	7.48	
34 05 43 00-0402 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	5,150.45	
34 05 43 00-0403 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	9.76	
34 05 43 00-0404 Gravity Fed Concrete Crack Repair (34 05 43 00-0377)		
Note: Includes removing loose materials and cleaning.		
34 05 43 00-0405 LF Epoxy Low Viscosity Gravity Fed Concrete Crack Repair	3.96	
34 05 43 00-0406 LF HMWM Low Viscosity Gravity Fed Concrete Crack Repair	4.65	
34 05 43 00-0407 Concrete Pumping With Boom Truck (34 05 43 00-0377)		
See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 37 16 00-0001 for concrete pump truck.		
34 05 43 00-0408 Bridge Girder Repair (34 05 43)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
34 05 43 00-0409	Bridge Girder Repair (34 05 43 00-0409)				
	Note: Does not include mobilization of bridge jacking crew. See CSI section 05 05 23 00-0042 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.				
34 05 43 00-0410	HR UT, MT, PT Testing.....	75.00			
	Note: Does not include mileage to job site.				
34 05 43 00-0411	EA Mobilization of Bridge Girder Repair Crew.....	2,798.49			
34 05 43 00-0412	LF 3" x 3" x 1/4" Angle Iron For Bridge Repair.....	15.67		6.31	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	23.23			
	For Aluminum, Add	1.31			
	For Galvanized Steel, Add	4.50			
34 05 43 00-0413	LF 4" x 4" x 1/4" Angle Iron For Bridge Repair.....	20.07		7.70	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	31.39			
	For Aluminum, Add	1.77			
	For Galvanized Steel, Add	6.08			
34 05 43 00-0414	LF 3" x 3" x 3/8" Angle Iron For Bridge Repair.....	20.13		7.10	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	34.14			
	For Aluminum, Add	1.92			
	For Galvanized Steel, Add	6.62			
34 05 43 00-0415	LF 4" x 4" x 3/8" Angle Iron For Bridge Repair.....	26.03		8.63	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	46.50			
	For Aluminum, Add	2.62			
	For Galvanized Steel, Add	9.01			
34 05 43 00-0416	LF 6" x 4" x 3/8" Angle Iron For Bridge Repair.....	33.29		11.26	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	58.50			
	For Aluminum, Add	3.29			
	For Galvanized Steel, Add	11.33			
34 05 43 00-0417	LF 6" x 6" x 3/8" Angle Iron For Bridge Repair.....	37.15		11.26	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	70.85			
	For Aluminum, Add	3.99			
	For Galvanized Steel, Add	13.73			
34 05 43 00-0418	LF 6" x 6" x 1/2" Angle Iron For Bridge Repair.....	49.28		15.12	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	93.18			
	For Aluminum, Add	5.24			
	For Galvanized Steel, Add	18.05			
34 05 43 00-0419	LF 7" x 4" x 5/8" Angle Iron For Bridge Repair.....	54.08		15.93	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	105.09			
	For Aluminum, Add	5.91			
	For Galvanized Steel, Add	20.36			
34 05 43 00-0420	LF 5" x 3-1/2" x 3/4" Angle Iron For Bridge Repair.....	47.27		13.38	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	94.14			
	For Aluminum, Add	5.30			
	For Galvanized Steel, Add	18.24			
34 05 43 00-0421	LF 6" x 4" x 3/4" Angle Iron For Bridge Repair.....	56.34		15.95	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	112.22			
	For Aluminum, Add	6.31			
	For Galvanized Steel, Add	21.74			
34 05 43 00-0422	LF 7" x 4" x 3/4" Angle Iron For Bridge Repair.....	62.55		17.71	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	124.58			
	For Aluminum, Add	7.01			
	For Galvanized Steel, Add	24.14			
34 05 43 00-0423	LF 8" x 6" x 7/8" Angle Iron For Bridge Repair.....	91.00		24.67	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	185.95			
	For Aluminum, Add	10.46			
	For Galvanized Steel, Add	36.03			
34 05 43 00-0424	LF C4 x 5.4 - 4" Wide Channels For Bridge Repair.....	18.84		8.11	
	Cutting Fee For Channels And Angles, Add Per Each Piece	20.00			
	For Fractured Critical, Add	20.00			
	For Stainless Steel, Add	25.66			
	For Aluminum, Add	1.44			
	For Galvanized Steel, Add	4.97			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0425 LF C6 x 8.2 - 6" Wide Channels For Bridge Repair	27.32	11.35
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	38.98	
For Aluminum, Add	2.19	
For Galvanized Steel, Add	7.55	
34 05 43 00-0426 LF C8 x 11.5 - 8" Wide Channels For Bridge Repair	36.92	14.87
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	54.69	
For Aluminum, Add	3.08	
For Galvanized Steel, Add	10.60	
34 05 43 00-0427 LF C10 x 15.3 - 10" Wide Channels For Bridge Repair	49.10	19.78
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	72.74	
For Aluminum, Add	4.09	
For Galvanized Steel, Add	14.09	
34 05 43 00-0428 LF C12 x 20.7 - 12" Wide Channels For Bridge Repair	66.45	26.77
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	98.43	
For Aluminum, Add	5.54	
For Galvanized Steel, Add	19.07	
34 05 43 00-0429 LF C15 x 33.9 - 15" Wide Channels For Bridge Repair	108.82	43.84
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	161.18	
For Aluminum, Add	9.07	
For Galvanized Steel, Add	31.23	
34 05 43 00-0430 SF 1/2" A36 Steel Plates For Bridge Repair	65.29	17.25
For A50 Grade Steel, Add	2.36	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0431 SF 5/8" A36 Steel Plates For Bridge Repair	81.61	21.57
For A50 Grade Steel, Add	2.95	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0432 SF 3/4" A36 Steel Plates For Bridge Repair	97.93	25.75
For A50 Grade Steel, Add	3.54	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0433 SF 7/8" A36 Steel Plates For Bridge Repair	114.26	30.18
For A50 Grade Steel, Add	4.12	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0434 SF 1" A36 Steel Plates For Bridge Repair	130.57	34.50
For A50 Grade Steel, Add	4.71	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0435 SF 1-1/4" A36 Steel Plates For Bridge Repair	163.23	43.12
For A50 Grade Steel, Add	5.89	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0436 SF 1-3/8" A36 Steel Plates For Bridge Repair	179.54	47.44
For A50 Grade Steel, Add	6.48	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0437 SF 1-1/2" A36 Steel Plates For Bridge Repair	195.87	51.75
For A50 Grade Steel, Add	7.07	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
For Fractured Critical, Add	20.00	
34 05 43 00-0438 CWT Removal Of Existing Steel For Bridge Repair A36	75.08	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For Removal Over 30' To 50', Add	15.02	
For Removal Over 50' To 75', Add	26.28	
For Removal Over 75', Add	37.54	
34 05 43 00-0439 TON Removal Of Existing Steel For Bridge Repair A36	1,001.11	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For Removal Over 30' To 50', Add	200.22	
For Removal Over 50' To 75', Add	350.39	
For Removal Over 75', Add	500.56	
34 05 43 00-0440 CWT Miscellaneous Steel For Bridge Repair A36	499.06	
Note: For use with angles, channels and steel plates up to 5' x 5'.		
For A50 Grade Steel, Add	84.80	
Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
34 05 43 00-0441 TON Miscellaneous Steel For Bridge Repair A36	7,960.40	
Note: For use with I-beams, floor beams and plates over 5' x 5'.		
For A50 Grade Steel, Add	1,391.86	
Cutting Fee For I-beams, Floor Beams And Plates Over 5' x 5', Add Per Each Piece	30.00	
34 05 43 00-0442 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter	42.83	
Note: Per each hole drilled per steel member.		
34 05 43 00-0443 EA Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter	55.69	
Note: Per each hole drilled per steel member.		
34 05 43 00-0444 EA Bolts A325 For Steel Repair Connections Up To 7/8"	34.35	2.40

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0445 EA Bridge Girder Rivet Removal	372.55	
34 05 43 00-0446 LF Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	7.98	
Note: Includes rust or scale removal.		
34 05 43 00-0447 LF >1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting	13.99	
Note: Includes rust or scale removal.		
34 05 43 00-0448 LF >1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	19.99	
Note: Includes rust or scale removal.		
34 05 43 00-0449 LF >1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	26.00	
Note: Includes rust or scale removal.		
34 05 43 00-0450 LF >2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	32.01	
Note: Includes rust or scale removal.		
34 05 43 00-0451 LF >2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting	38.02	
Note: Includes rust or scale removal.		
34 05 43 00-0452 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces (34 05 43 00-0408)		
34 05 43 00-0453 SF Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.25	
For Up To 100, Add	0.77	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.15	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.12	
For >15,000 To 30,000, Deduct	-0.18	
For >30,000, Deduct	-0.24	
34 05 43 00-0454 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.69	
For Up To 100, Add	1.02	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.20	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 15,000, Deduct	-0.16	
For >15,000 To 30,000, Deduct	-0.24	
For >30,000, Deduct	-0.32	
34 05 43 00-0455 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	2.49	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 15,000, Deduct	-0.23	
For >15,000 To 30,000, Deduct	-0.36	
For >30,000, Deduct	-0.48	
34 05 43 00-0456 SF Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair	4.15	
For Up To 100, Add	2.56	
For >100 To 250, Add	1.19	
For >250 To 500, Add	0.51	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 15,000, Deduct	-0.39	
For >15,000 To 30,000, Deduct	-0.60	
For >30,000, Deduct	-0.79	
34 05 43 00-0457 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.17	
For Up To 100, Add	1.93	
For >100 To 250, Add	0.90	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 15,000, Deduct	-0.29	
For >15,000 To 30,000, Deduct	-0.46	
For >30,000, Deduct	-0.60	
34 05 43 00-0458 SF Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.92	
For Up To 100, Add	2.36	
For >100 To 250, Add	1.10	
For >250 To 500, Add	0.47	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 15,000, Deduct	-0.36	
For >15,000 To 30,000, Deduct	-0.56	
For >30,000, Deduct	-0.75	
34 05 43 00-0459 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	5.07	
For Up To 100, Add	3.07	
For >100 To 250, Add	1.43	
For >250 To 500, Add	0.61	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 15,000, Deduct	-0.47	
For >15,000 To 30,000, Deduct	-0.73	
For >30,000, Deduct	-0.97	
34 05 43 00-0460 SF Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair	6.35	
For Up To 100, Add	3.84	
For >100 To 250, Add	1.79	
For >250 To 500, Add	0.77	
For >5,000 To 10,000, Deduct	-0.29	
For >10,000 To 15,000, Deduct	-0.59	
For >15,000 To 30,000, Deduct	-0.92	
For >30,000, Deduct	-1.21	

34 05 43 00-0461 Galvanized Anchor Bolts For Bridge Bearings (34 05 43 00-0408)

34 05 43 00-0462 EA 1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	17.93
34 05 43 00-0463 EA 1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings	29.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0464 EA 1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	36.86	
34 05 43 00-0465 EA 5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	44.51	
34 05 43 00-0466 EA 5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	56.50	
34 05 43 00-0467 EA 5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	64.02	
34 05 43 00-0468 EA 3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	63.66	
34 05 43 00-0469 EA 3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	73.44	
34 05 43 00-0470 EA 3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	91.59	
34 05 43 00-0471 EA 3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	112.94	
34 05 43 00-0472 EA 7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	85.37	
34 05 43 00-0473 EA 7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	101.25	
34 05 43 00-0474 EA 7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	131.57	
34 05 43 00-0475 EA 1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	107.74	
34 05 43 00-0476 EA 1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	128.90	
34 05 43 00-0477 EA 1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	160.34	
34 05 43 00-0478 EA 1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	196.71	
34 05 43 00-0479 EA 1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	131.59	
34 05 43 00-0480 EA 1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	157.54	
34 05 43 00-0481 EA 1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	196.11	
34 05 43 00-0482 EA 1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	240.45	
34 05 43 00-0483 EA 1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	161.29	
34 05 43 00-0484 EA 1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	193.25	
34 05 43 00-0485 EA 1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	240.73	
34 05 43 00-0486 EA 1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	294.97	
34 05 43 00-0487 EA 1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	198.44	
34 05 43 00-0488 EA 1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	237.83	
34 05 43 00-0489 EA 1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	296.50	
34 05 43 00-0490 EA 1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	363.17	
34 05 43 00-0491 Welding For Bridge Repair (34 05 43 00-0408)		
34 05 43 00-0492 EA Minimum Charge For Welding For Bridge Repair.....	2,611.06	
Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
34 05 43 00-0493 LF 3/16" Fillet Welding For Bridge Repair.....	17.78	
For Full Penetration Weld, Add	6.56	
34 05 43 00-0494 LF 1/4" Fillet Welding For Bridge Repair.....	26.72	
For Full Penetration Weld, Add	9.85	
34 05 43 00-0495 LF 5/16" Fillet Welding For Bridge Repair.....	35.64	
For Full Penetration Weld, Add	13.13	
34 05 43 00-0496 LF 3/8" Fillet Welding For Bridge Repair.....	44.50	
For Full Penetration Weld, Add	16.41	
34 05 43 00-0497 LF 7/16" Fillet Welding For Bridge Repair.....	51.98	
For Full Penetration Weld, Add	19.69	
34 05 43 00-0498 LF 1/2" Fillet Welding For Bridge Repair.....	61.83	
For Full Penetration Weld, Add	22.80	
34 05 43 00-0499 LF 9/16" Fillet Welding For Bridge Repair.....	71.48	
For Full Penetration Weld, Add	26.86	
34 05 43 00-0500 LF 5/8" Fillet Welding For Bridge Repair.....	78.99	
For Full Penetration Weld, Add	29.54	
34 05 43 00-0501 LF 3/4" Fillet Welding For Bridge Repair.....	109.75	
For Full Penetration Weld, Add	40.37	
34 05 43 00-0502 LF 7/8" Fillet Welding For Bridge Repair.....	143.63	
For Full Penetration Weld, Add	53.52	
34 05 43 00-0503 LF 1" Fillet Welding For Bridge Repair.....	201.12	
For Full Penetration Weld, Add	73.85	
34 05 43 00-0504 Bridge Trough Repair (34 05 43)		
34 05 43 00-0505 EA New Bridge Trough Hanger	327.06	30.05
34 05 43 00-0506 EA Reattach By Welding Existing Bridge Trough Hanger, Top And/or Bottom	81.11	
34 05 43 00-0507 EA Removal And Replacement Of All Thread For Existing Bridge Trough Hanger.....	140.30	
34 05 43 00-0508 EA Removal And Replacement Of Steel Angle Attachment For Existing Bridge Trough Hanger.....	78.16	
34 05 43 00-0509 Spot Paint Removal And Painting, Bridge Structural Steel (34 05 43)		
34 05 43 00-0510 HR Testing For Lead And Asbestos Paint Removal By Asbestos Contractor.....	126.40	
34 05 43 00-0511 EA Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal	237.13	
34 05 43 00-0512 SF >4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	59.28	
34 05 43 00-0513 EA Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal	292.02	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0514 SF >4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal	73.01	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0515 CF Treat and Dispose of Removed Paint Waste	6.62	
34 05 43 00-0516 SF Flat Surfaces Spot Painting	62.47	
Note: Includes 1 coat epoxy rust inhibiting primer and 2 coats epoxy paint finish.		
34 05 43 00-0517 EA Minimum Charge For Plastic Barrier Enclosure for Paint Removal.....	1,477.01	
Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.		
34 05 43 00-0518 SF Plastic Barrier Enclosure For Paint Removal	4.61	
Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 05 43 00-0519		End Beam Cleaning And Painting For Bridges (34 05 43)		
34 05 43 00-0520	SF	End Beam Cleaning and Painting.....	4.45	
		Note: Includes high-pressure wash at minimum 3,003 to 5,000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC – SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.		
		For Up To 100, Add	4.45	
		For >100 To 500, Add	2.94	
		For >500 To 3,000, Add	1.47	
		For >5,000 To 7,500, Deduct	-0.73	
		For >7,500 To 10,000, Deduct	-1.10	
		For >10,000, Deduct	-1.57	
34 05 43 00-0521		Pedestrian Fences For Bridges (34 05 43)		
34 05 43 00-0522		Pedestrian Fence Assembly For Bridges (34 05 43 00-0521)		
		Note: Includes 1", 11 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' on-center. Posts exclude installation onto bridge. Heights indicated are for mesh to top.		
34 05 43 00-0523		Galvanized Pedestrian Fence Assembly For Bridges (34 05 43 00-0522)		
34 05 43 00-0524	LF	4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	60.35	14.19
		For Posts 8' On Centers, Add	3.30	
		For Posts 5' On Centers, Add	12.38	
		For Up To 100, Add	11.39	
		For >100 To 250, Add	4.19	
34 05 43 00-0525	LF	>4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	65.68	14.89
		For Posts 8' On Centers, Add	3.58	
		For Posts 5' On Centers, Add	13.42	
		For Up To 100, Add	12.31	
		For >100 To 250, Add	4.51	
34 05 43 00-0526	LF	>5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	71.07	15.61
		For Posts 8' On Centers, Add	3.86	
		For Posts 5' On Centers, Add	14.46	
		For Up To 100, Add	13.23	
		For >100 To 250, Add	4.84	
34 05 43 00-0527	LF	>6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	74.58	16.31
		For Posts 8' On Centers, Add	4.05	
		For Posts 5' On Centers, Add	15.17	
		For Up To 100, Add	13.88	
		For >100 To 250, Add	5.07	
34 05 43 00-0528	LF	>7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	84.79	17.73
		For Posts 8' On Centers, Add	4.59	
		For Posts 5' On Centers, Add	17.16	
		For Up To 100, Add	15.64	
		For >100 To 250, Add	5.70	
34 05 43 00-0529		Vinyl Coated Pedestrian Fence Assembly For Bridges (34 05 43 00-0522)		
34 05 43 00-0530	LF	4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	63.35	14.19
		For Powder Coated, Add	7.99	
		For Aluminum Coated, Add	15.98	
		For Posts 8' On Centers, Add	3.45	
		For Posts 5' On Centers, Add	12.92	
		For Up To 100, Add	11.84	
		For >100 To 250, Add	4.34	
34 05 43 00-0531	LF	>4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	69.47	14.89
		For Powder Coated, Add	8.98	
		For Aluminum Coated, Add	17.97	
		For Posts 8' On Centers, Add	3.77	
		For Posts 5' On Centers, Add	14.10	
		For Up To 100, Add	12.88	
		For >100 To 250, Add	4.70	
34 05 43 00-0532	LF	>5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	78.76	15.61
		For Powder Coated, Add	10.61	
		For Aluminum Coated, Add	21.22	
		For Posts 8' On Centers, Add	4.25	
		For Posts 5' On Centers, Add	15.85	
		For Up To 100, Add	14.39	
		For >100 To 250, Add	5.22	
34 05 43 00-0533	LF	>6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	83.53	16.31
		For Powder Coated, Add	11.33	
		For Aluminum Coated, Add	22.66	
		For Posts 8' On Centers, Add	4.50	
		For Posts 5' On Centers, Add	16.78	
		For Up To 100, Add	15.22	
		For >100 To 250, Add	5.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0534	LF		>7" To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	95.22	17.73
			For Powder Coated, Add.....	13.20	
			For Aluminum Coated, Add.....	26.40	
			For Posts 8' On Centers, Add.....	5.11	
			For Posts 5' On Centers, Add.....	19.04	
			For Up To 100, Add.....	17.21	
			For >100 To 250, Add.....	6.22	
34 05 43 00-0535			Bridge Connection Mounting For Pedestrian Fence Assembly (34 05 43 00-0522)		
34 05 43 00-0536	EA		Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts.....	68.99	
			Note: Includes drilling into steel post.		
34 05 43 00-0537	EA		Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint.....	36.64	
34 05 43 00-0538	EA		Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint.....	100.15	
34 05 43 00-0539	EA		Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts.....	115.01	
			Note: Includes drilling into steel post.		
34 05 43 00-0540	EA		Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts.....	153.87	
			Note: Includes drilling into steel post.		
34 05 43 00-0541			Bridge Drainage Pipe (34 05 43)		
			Note: Concrete gray.		
34 05 43 00-0542			FRP Bridge Drain Pipe (34 05 43 00-0541)		
34 05 43 00-0543	LF		6" IPS FRP Bridge Drain Piping.....	173.01	20.30
34 05 43 00-0544	LF		8" IPS FRP Bridge Drain Piping.....	219.33	25.35
34 05 43 00-0545	LF		10" IPS FRP Bridge Drain Piping.....	282.18	30.40
34 05 43 00-0546	LF		12" IPS FRP Bridge Drain Piping.....	351.90	35.45
34 05 43 00-0547			FRP Bridge Drain Tee Saddles (34 05 43 00-0541)		
34 05 43 00-0548	EA		6" x 6" FRP Bridge Drain Tee Saddle.....	1,465.66	303.78
34 05 43 00-0549	EA		8" x 8" FRP Bridge Drain Tee Saddle.....	1,860.43	379.72
34 05 43 00-0550	EA		10" x 10" FRP Bridge Drain Tee Saddle.....	2,726.51	455.66
34 05 43 00-0551	EA		12" x 12" FRP Bridge Drain Tee Saddle.....	3,293.72	531.61
34 05 43 00-0552	EA		8" x 6" FRP Bridge Drain Tee Saddle.....	1,730.29	341.75
34 05 43 00-0553	EA		10" x 6" FRP Bridge Drain Tee Saddle.....	2,472.36	379.72
34 05 43 00-0554	EA		10" x 8" FRP Bridge Drain Tee Saddle.....	2,599.46	417.69
34 05 43 00-0555	EA		12" x 6" FRP Bridge Drain Tee Saddle.....	2,932.87	417.69
34 05 43 00-0556	EA		12" x 8" FRP Bridge Drain Tee Saddle.....	3,038.56	455.66
34 05 43 00-0557	EA		12" x 10" FRP Bridge Drain Tee Saddle.....	3,170.52	493.64
34 05 43 00-0558			FRP Bridge Drain 45 Degree Lateral Saddles (34 05 43 00-0541)		
34 05 43 00-0559	EA		6" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	1,565.71	303.78
34 05 43 00-0560	EA		8" x 8" FRP Bridge Drain 45 Degree Lateral Saddle.....	1,976.49	379.72
34 05 43 00-0561	EA		10" x 10" FRP Bridge Drain 45 Degree Lateral Saddle.....	2,945.91	455.66
34 05 43 00-0562	EA		12" x 12" FRP Bridge Drain 45 Degree Lateral Saddle.....	3,725.21	531.61
34 05 43 00-0563	EA		8" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	1,846.99	341.75
34 05 43 00-0564	EA		10" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	2,698.15	379.72
34 05 43 00-0565	EA		10" x 8" FRP Bridge Drain 45 Degree Lateral Saddle.....	2,821.99	417.69
34 05 43 00-0566	EA		12" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	3,362.94	417.69
34 05 43 00-0567	EA		12" x 8" FRP Bridge Drain 45 Degree Lateral Saddle.....	3,486.86	455.66
34 05 43 00-0568			FRP Bridge Drain Couplings (34 05 43 00-0541)		
34 05 43 00-0569	EA		6" FRP Bridge Drain Coupling.....	668.57	161.99
34 05 43 00-0570	EA		8" FRP Bridge Drain Coupling.....	863.70	202.48
34 05 43 00-0571	EA		10" FRP Bridge Drain Coupling.....	1,043.88	242.98
34 05 43 00-0572	EA		12" FRP Bridge Drain Coupling.....	1,477.45	283.59
34 05 43 00-0573			FRP Bridge Drain Flanges (34 05 43 00-0541)		
34 05 43 00-0574	EA		6" FRP Bridge Drain Flange.....	812.84	80.99
34 05 43 00-0575	EA		6", 8 Hole FRP Bridge Drain Flange.....	955.59	101.30
34 05 43 00-0576	EA		8" FRP Bridge Drain Flange.....	1,001.76	101.30
34 05 43 00-0577	EA		8", 8 Hole FRP Bridge Drain Flange.....	1,159.73	126.53
34 05 43 00-0578	EA		10" FRP Bridge Drain Flange.....	1,350.82	121.49
34 05 43 00-0579	EA		10", 12 Hole FRP Bridge Drain Flange.....	1,559.08	151.88
34 05 43 00-0580			FRP Bridge Drain Socket Cleanouts With Plug (34 05 43 00-0541)		
34 05 43 00-0581	EA		6" x 4" FRP Bridge Drain Socket Cleanout With 4" Plug.....	655.33	101.30
34 05 43 00-0582	EA		8" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug.....	877.51	126.53
34 05 43 00-0583	EA		10" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug.....	1,011.89	151.88
34 05 43 00-0584	EA		12" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug.....	1,300.88	177.25

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0585 FRP Bridge Drain Concentric Reducers (34 05 43 00-0541)				
34 05 43 00-0586	EA	8" x 6" FRP Bridge Drain Concentric Reducer	1,128.42	126.53
34 05 43 00-0587	EA	10" x 6" FRP Bridge Drain Concentric Reducer	1,084.50	144.32
34 05 43 00-0588	EA	10" x 8" FRP Bridge Drain Concentric Reducer	1,068.66	151.88
34 05 43 00-0589	EA	12" x 6" FRP Bridge Drain Concentric Reducer	1,285.98	159.46
34 05 43 00-0590	EA	12" x 8" FRP Bridge Drain Concentric Reducer	1,292.37	168.35
34 05 43 00-0591	EA	12" x 10" FRP Bridge Drain Concentric Reducer	1,370.01	177.25
34 05 43 00-0592	EA	14" x 8" FRP Bridge Drain Concentric Reducer	2,140.57	186.02
34 05 43 00-0593	EA	14" x 10" FRP Bridge Drain Concentric Reducer	2,168.61	195.39
34 05 43 00-0594	EA	14" x 12" FRP Bridge Drain Concentric Reducer	2,198.06	205.12
34 05 43 00-0595	EA	16" x 12" FRP Bridge Drain Concentric Reducer	2,604.06	215.45
34 05 43 00-0596	EA	18" x 12" FRP Bridge Drain Concentric Reducer	2,957.49	226.15
34 05 43 00-0597 FRP Bridge Drain 90 Degree Socket Elbows (34 05 43 00-0541)				
34 05 43 00-0598	EA	6" FRP Bridge Drain 90 Degree Socket Elbow	1,486.86	202.48
34 05 43 00-0599	EA	8" FRP Bridge Drain 90 Degree Socket Elbow	1,746.33	253.19
34 05 43 00-0600	EA	10" FRP Bridge Drain 90 Degree Socket Elbow	2,734.13	303.78
34 05 43 00-0601	EA	12" FRP Bridge Drain 90 Degree Socket Elbow	3,732.12	354.37
34 05 43 00-0602 FRP Bridge Drain 45 Degree Socket Elbows (34 05 43 00-0541)				
34 05 43 00-0603	EA	6" FRP Bridge Drain 45 Degree Socket Elbow	1,141.15	202.48
34 05 43 00-0604	EA	8" FRP Bridge Drain 45 Degree Socket Elbow	1,502.46	253.19
34 05 43 00-0605	EA	10" FRP Bridge Drain 45 Degree Socket Elbow	2,038.80	303.78
34 05 43 00-0606	EA	12" FRP Bridge Drain 45 Degree Socket Elbow	2,663.20	354.37
34 05 43 00-0607 FRP Bridge Drain 22-1/2 Degree Socket Elbows (34 05 43 00-0541)				
34 05 43 00-0608	EA	6" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,008.79	202.48
34 05 43 00-0609	EA	8" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,310.49	253.19
34 05 43 00-0610	EA	10" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,673.34	303.78
34 05 43 00-0611	EA	12" FRP Bridge Drain 22-1/2 Degree Socket Elbow	3,117.21	354.37
34 05 43 00-0612 FRP Bridge Drain Debris Covers (34 05 43 00-0541)				
34 05 43 00-0613	EA	8" x 6" FRP Bridge Drain Debris Cover	894.58	105.51
34 05 43 00-0614	EA	10" x 6" FRP Bridge Drain Debris Cover	920.16	110.79
34 05 43 00-0615	EA	10" x 8" FRP Bridge Drain Debris Cover	954.38	122.08
34 05 43 00-0616	EA	12" x 10" FRP Bridge Drain Debris Cover	1,001.48	134.58
34 05 43 00-0617	EA	12" x 6" FRP Bridge Drain Debris Cover	936.86	116.32
34 05 43 00-0618	EA	12" x 8" FRP Bridge Drain Debris Cover	982.17	128.22
34 05 43 00-0619	EA	14" x 10" FRP Bridge Drain Debris Cover	1,053.10	141.32
34 05 43 00-0620	EA	14" x 12" FRP Bridge Drain Debris Cover	1,074.39	148.40
34 05 43 00-0621	EA	16" x 12" FRP Bridge Drain Debris Cover	1,147.26	155.85
34 10 Guideways/Railways (34)				
34 11 Rail Tracks (34 10)				
34 11 93 Track Appurtenances and Accessories (34 11)				
34 11 93 00-0001 Railroad Crossings (34 11 93)				
34 11 93 00-0002 Asphalt Railroad Crossings (34 11 93 00-0001)				
Note: Based on 8" thickness x 20' including track and approach.				
34 11 93 00-0003	EA	8" Asphalt Railroad Crossing, 12' Roadway 6 CY	2,348.43	407.01
34 11 93 00-0004	EA	8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY	2,749.08	461.28
34 11 93 00-0005	EA	8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY	3,239.27	542.69
34 11 93 00-0006	EA	8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY	3,853.51	651.23
34 11 93 00-0007	EA	8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY	4,684.80	814.03
34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts (34 11 93 00-0001)				
Note: Based on 6" thickness x standard rail width gauge.				
34 11 93 00-0009	EA	Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge	5,776.53	179.84
34 11 93 00-0010	EA	Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge	7,220.66	218.38
34 11 93 00-0011	EA	Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge	8,658.43	269.75
34 11 93 00-0012	EA	Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge	10,097.82	308.29
34 11 93 00-0013	EA	Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge	11,536.18	359.68
34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers (34 11 93 00-0001)				
Note: Based on 3' x 8'-6" sections.				
34 11 93 00-0015	EA	Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers	3,601.66	179.84
34 11 93 00-0016	EA	Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers	4,279.24	218.38
34 11 93 00-0017	EA	Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers	4,950.45	269.75
34 11 93 00-0018	EA	Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers	5,623.28	308.29
34 11 93 00-0019	EA	Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers	6,295.09	359.68



Transportation		34	34
Guideways/Railways		34 10	
Rail Tracks		34 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 11 93 00-0020	Railroad Trackage Demolition (34 11 93)				
34 11 93 00-0021	CY		Removal Of Railroad Track Ballast.....	10.46	
34 11 93 00-0022	LF		Removal Of Railroad Track Rail And Spikes	26.15	
34 11 93 00-0023	EA		Removal And Disposal Of Concrete Post Footings	158.67	
34 11 93 00-0024	EA		Backfill Holes From Post Removal.....	66.13	

34 40 Transportation Signaling and Control Equipment (34)

34 41 Roadway Signaling and Control Equipment (34 40)

34 41 13 Traffic Signals (34 41)

34 41 13 00-0001 Traffic Signals (34 41 13)

34 41 13 00-0002	EA	Single Traffic Signal Head, 4 Way Pattern.....	8,426.44	908.17

34 41 13 00-0003 Traffic Detector Induction Loop (34 41 13)

34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop.....	452.12	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop.....	563.83	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop.....	642.66	
Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop	551.59	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0008	EA	6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	957.23	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0009	EA	6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,170.24	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0010	EA	6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	1,251.90	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0011	EA	6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop	1,548.37	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0012	EA	6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,668.20	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0013	EA	6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop	1,771.46	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0014	EA	6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,917.83	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0015	LF	In Pavement, Lead Wire For Traffic Signal Detector.....	9.07	
Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.				
34 41 13 00-0016	LF	In Earthwork, Lead Wire For Traffic Signal Detector.....	4.18	
Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.				
34 41 13 00-0017	EA	2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	297.51	
34 41 13 00-0018	EA	4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	842.40	
34 41 13 00-0019	EA	2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	522.69	

34 41 13 00-0020 Overhead Traffic Signals (34 41 13)

34 41 13 00-0021	EA	Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	6,872.09	1,210.90
34 41 13 00-0022	EA	Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	7,076.73	1,210.90
34 41 13 00-0023	EA	Traffic Signal Controller Unit, Replacement For Type 170E (ASC/3RM)	7,353.59	1,210.90
34 41 13 00-0024	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way	1,285.18	270.95
34 41 13 00-0025	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way	1,405.55	270.95
34 41 13 00-0026	EA	Optical Detector For Mast Arm Mounting, 2 Channel	1,800.38	270.95
34 41 13 00-0027	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way	1,285.18	270.95
34 41 13 00-0028	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way	1,405.55	270.95
34 41 13 00-0029	EA	Optical Detector For Pole-Side Mounting, 2 Channel	1,800.38	270.95
34 41 13 00-0030	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	1,285.18	270.95
34 41 13 00-0031	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	1,405.55	270.95
34 41 13 00-0032	EA	Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	1,800.38	270.95
34 41 13 00-0033	EA	Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	1,285.18	270.95
34 41 13 00-0034	EA	Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	1,405.55	270.95
34 41 13 00-0035	EA	Optical Detector For Span Wire Mounting, 2 Channel.....	1,800.38	270.95
34 41 13 00-0036	EA	Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	1,285.18	270.95
34 41 13 00-0037	EA	Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	1,405.55	270.95
34 41 13 00-0038	EA	Optical Detector For Signal Top Mounting, 2 Channel.....	1,800.38	270.95

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0039 EA Phase Selector, 2 Channel	4,100.30	33.87
34 41 13 00-0040 EA Phase Selector, 4 Channel	6,375.39	33.87
34 41 13 00-0041 EA Malfunction Management Unit For Use With NEMA Controller	2,061.48	67.74
34 41 13 00-0042 EA Malfunction Management Unit For Use With Type 170E Or 2070 Controller	2,061.48	67.74
34 41 13 00-0043 EA Time Switch, 1-Circuit	331.17	40.64
34 41 13 00-0044 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal	414.25	16.93
34 41 13 00-0045 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay	541.85	16.93
34 41 13 00-0046 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal	770.57	16.93
34 41 13 00-0047 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay	967.98	16.93
34 41 13 00-0048 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Controller Cabinet	2,629.15	16.93
34 41 13 00-0049 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet	2,629.15	16.93
34 41 13 00-0050 EA Power Line Surge Protector	242.75	10.16
34 41 13 00-0051 EA Loop Detector Surge Protector	123.48	10.16
34 41 13 00-0052 EA Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay	15,751.11	1,702.82
34 41 13 00-0053 EA Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays	17,123.39	1,702.82
34 41 13 00-0054 EA Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay	18,772.52	1,702.82
34 41 13 00-0055 EA Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays	19,278.10	1,702.82
34 41 13 00-0056 EA Speed Limit Beacon Control Option	6,926.92	454.09
34 41 13 00-0057 EA Speed Limit Beacon Control Cabinet	7,835.09	908.17
34 41 13 00-0058 EA Remote Detector Cabinet	4,103.46	908.17
34 41 13 00-0059 EA Traffic Signal Hand Control	1,145.34	151.36
34 41 13 00-0060 EA Load Switch	114.21	10.16
34 41 13 00-0061 EA Extra Pedestrian Detector Isolation Assembly	904.60	151.36
34 41 13 00-0062 EA Fiber Optic Transceivers-Repeater Module	1,650.79	270.95
34 41 13 00-0063 EA Field Transceiver-Repeater	859.15	67.74
34 41 13 00-0064 EA 30" Pedestal With Base Plate And Cover	998.75	136.18
34 41 13 00-0065 EA 42" Pedestal With Base Plate And Cover (Push Button Pedestal)	1,170.02	142.37
34 41 13 00-0066 EA 8' Pedestal With Base Plate And Cover	1,466.74	159.70
34 41 13 00-0067 EA 11' Pedestal With Base Plate And Cover	1,632.26	173.32
34 41 13 00-0068 EA 15' Pedestal With Base Plate And Cover	1,814.19	206.74
34 41 13 00-0069 LF 6-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.85	
34 41 13 00-0070 LF 12-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.98	
34 41 13 00-0071 LF 24-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.36	
34 41 13 00-0072 LF 36-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.77	
34 41 13 00-0073 LF 48-Fiber Interconnect Cable, Fiber Optic, Single Mode	3.16	
34 41 13 00-0074 LF 72-Fiber Interconnect Cable, Fiber Optic, Single Mode	3.87	
34 41 13 00-0075 LF 96-Fiber Interconnect Cable, Fiber Optic, Single Mode	4.55	
34 41 13 00-0076 LF 144-Fiber Interconnect Cable, Fiber Optic, Single Mode	5.87	
34 41 13 00-0077 LF 3/16" Diameter Messenger Cable	0.77	0.12
34 41 13 00-0078 LF 1/4" Diameter Messenger Cable	0.92	0.12
34 41 13 00-0079 LF 3/8" Diameter Messenger Cable	1.71	0.12
34 41 13 00-0080 LF 1/2" Diameter Messenger Cable	3.55	0.24
34 41 13 00-0081 EA 4' Diameter x 10' Concrete Base For Poles	3,210.64	
Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0082 EA 4' Diameter x 16' Concrete Base For Poles	5,068.53	
Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0083 EA Internally Illuminated Street Name Sign, 1 Line, 4'	3,109.25	302.72
34 41 13 00-0084 EA Internally Illuminated Street Name Sign, 1 Line, 6'	3,838.41	378.40
34 41 13 00-0085 EA Internally Illuminated Street Name Sign, 1 Line, 8'	4,182.37	454.09
34 41 13 00-0086 EA Internally Illuminated Street Name Sign, 1 Line, 10'	4,718.93	529.76
34 41 13 00-0087 EA Internally Illuminated Street Name Sign, 1 Line, 12'	5,062.90	605.45
34 41 13 00-0088 EA Internally Illuminated Street Name Sign, 2 Line, 4'	4,929.32	302.72
34 41 13 00-0089 EA Internally Illuminated Street Name Sign, 2 Line, 6'	6,072.57	378.40
34 41 13 00-0090 EA Internally Illuminated Street Name Sign, 2 Line, 8'	6,551.35	454.09
34 41 13 00-0091 EA Internally Illuminated Street Name Sign, 2 Line, 10'	7,319.03	529.76
34 41 13 00-0092 EA Internally Illuminated Street Name Sign, 2 Line, 12'	7,855.60	605.45
34 41 13 00-0093 EA Photoelectric Controller, Multi-Volt	106.56	35.22
34 41 13 00-0094 EA Photoelectric Controller, 120 Volt	107.05	35.22
34 41 13 00-0095 EA Photoelectric Controller, 480 Volt	107.05	35.22
34 41 13 00-0096 EA Wi-Fi Communication Unit	1,624.44	151.36
34 41 13 00-0097 EA Wi-Fi Communication Unit Mounting Bracket	347.42	113.52
34 41 13 00-0098 EA Wi-Fi Communication Unit Power Supply / POE Injector	317.48	75.68
34 41 13 00-0099 EA Wi-Fi Communication Unit Packet	2,289.33	227.04
34 41 13 00-0100 LF Preemptor Detector Cable	1.87	
34 41 13 00-0101 EA Sno-Shoe Cable Storage Assembly	294.32	
34 41 13 00-0102 EA 16' Pedestal With Base Plate And Cover	1,914.50	206.74
34 41 13 00-0103 EA Vehicle Signal Face, LED, 1 - 12" Section	629.13	192.98
34 41 13 00-0104 EA Vehicle Signal Face, LED, 2 - 12" Sections	1,024.00	272.45
34 41 13 00-0105 EA Vehicle Signal Face, LED, 3 - 12" Sections	1,436.39	332.99
34 41 13 00-0106 EA Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank	1,364.17	332.99
34 41 13 00-0107 EA Vehicle Signal Face, LED, 4 - 12" Sections	1,825.05	370.84
34 41 13 00-0108 EA Vehicle Signal Face, LED, 5 - 12" Sections	2,183.43	393.55
34 41 13 00-0109 EA Vehicle Signal Face, LED, 5 - 12" Sections, Cluster	2,323.06	393.55
34 41 13 00-0110 EA Vehicle Signal Face, LED, 1 - 8" Section	593.01	192.98
34 41 13 00-0111 EA Vehicle Signal Face, LED, 2 - 8" Sections	951.78	272.45
34 41 13 00-0112 EA Vehicle Signal Face, LED, 3 - 8" Sections	1,260.64	332.99
34 41 13 00-0113 EA Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section	1,349.72	332.99
34 41 13 00-0114 EA Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections	1,670.97	370.84
34 41 13 00-0115 EA Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section	1,620.41	370.84
34 41 13 00-0116 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections	1,918.60	393.55
34 41 13 00-0117 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster	2,031.76	393.55



Transportation		34
Transportation Signaling and Control Equipment		34 40
Roadway Signaling and Control Equipment		34 41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0118	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed.....	2,929.04	332.99
34 41 13 00-0119	EA	Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed.....	3,830.49	370.84
34 41 13 00-0120	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed.....	5,000.20	393.55
34 41 13 00-0121	EA	Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed.....	5,421.52	393.55
34 41 13 00-0122	EA	Bracket Signal Mounting Assembly.....	606.06	151.36
34 41 13 00-0123	EA	Mast Arm Signal Mounting Assembly.....	1,072.51	302.72
34 41 13 00-0124	EA	Top Pole Signal Mounting Assembly.....	376.30	113.52
34 41 13 00-0125	EA	Pedestrian Signal Head.....	1,104.11	227.04
34 41 13 00-0126	EA	Pedestrian Signal Insert.....	682.06	113.52
34 41 13 00-0127	EA	Audible Pedestrian Signal.....	1,533.18	
34 41 13 00-0128	EA	Junction Box, Pole Or Post Mounted.....	630.34	
34 41 13 00-0129	EA	Pedestrian Push Button.....	566.43	
34 41 13 00-0130	EA	Illuminated Sign, Bracket Mounted, Symbolic.....	4,569.96	
34 41 13 00-0131	EA	Illuminated Sign, Mast Arm Mounted, Symbolic.....	4,768.45	
34 41 13 00-0132	EA	Sign, Message, "BLANK OUT", Bracket Mounted.....	5,033.39	
34 41 13 00-0133	EA	Sign, Message, "BLANK OUT", Mast Arm Mounted.....	5,350.69	
34 41 13 00-0134	EA	Sign, Fiber Optic, Bracket Mounted.....	5,736.35	
34 41 13 00-0135	EA	Sign, Fiber Optic, Mast Arm Mounted.....	6,060.29	
34 41 13 00-0136	EA	30' Type 15TS Signal And Lighting Standard.....	8,613.49	
		Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0137	EA	35' Type 21TS Signal And Lighting Standard.....	10,027.24	
		Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0138	EA	17' Type 18-2-100 Signal And Lighting Standard.....	4,815.94	
		Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0139	EA	17' Type 18-3-100 Signal And Lighting Standard.....	5,361.79	
		Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0140	EA	17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard.....	5,571.03	
		Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.		
34 41 13 00-0141	EA	17' Type 23-3-100 Signal And Lighting Standard.....	5,571.03	
		Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0142	EA	17' Type 23-4-100 Signal And Lighting Standard.....	5,680.88	
		Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0143	EA	17' Type 27-3-100 Signal And Lighting Standard.....	6,230.16	
		Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0144	EA	17' Type 27-4-100 Signal And Lighting Standard.....	6,356.47	
		Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0145	EA	17' Type 28-5-100 Signal And Lighting Standard.....	6,615.46	
		Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0146	EA	17' Type 60-5-100 Signal And Lighting Standard.....	7,023.36	
		Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0147	EA	18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard.....	5,137.05	
		Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.		
34 41 13 00-0148	EA	30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard.....	9,186.63	
		Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0149	EA	30' Type 19-2-100 Signal And Lighting Standard.....	10,332.91	
		Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0150	EA	30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard.....	10,772.32	
		Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0151	EA	30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard.....	10,772.32	
		Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0152	EA	30' Type 26-3-100 Signal And Lighting Standard.....	12,156.45	
		Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0153	EA	30' Type 26-4-100 Signal And Lighting Standard.....	12,687.06	
		Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0154	EA	30' Type 29-5-100 Signal And Lighting Standard.....	13,244.15	
		Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0155	EA	30' Type 61-5-100 Signal And Lighting Standard.....	14,121.62	
		Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0156	EA	35' Type 17A-2-100 Signal And Lighting Standard.....	10,680.96	
		Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0157	EA	35' Type 19A-2-100 Signal And Lighting Standard.....	12,018.29	
		Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0158	EA	35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard.....	12,530.95	
		Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0159	EA	35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard.....	12,530.95	
		Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0160	EA	35' Type 26A-3-100 Signal And Lighting Standard.....	14,145.76	
		Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0161	EA	35' Type 26A-4-100 Signal And Lighting Standard.....	14,764.79	
		Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0162	EA	35' Type 29A-5-100 Signal And Lighting Standard.....	15,414.75	
		Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0163	EA	35' Type 61A-5-100 Signal And Lighting Standard.....	16,438.44	
		Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.		
34 41 13 00-0164	EA	15' Steel Straight Mast Arm, MONOTUBE.....	3,481.09	
34 41 13 00-0165	EA	20' Steel Straight Mast Arm, MONOTUBE.....	3,654.41	
34 41 13 00-0166	EA	25' Steel Straight Mast Arm, MONOTUBE.....	3,916.09	
34 41 13 00-0167	EA	30' Steel Straight Mast Arm, MONOTUBE.....	5,311.49	
34 41 13 00-0168	EA	35' Steel Straight Mast Arm, MONOTUBE.....	6,406.34	
34 41 13 00-0169	EA	40' Steel Straight Mast Arm, MONOTUBE.....	6,881.05	
34 41 13 00-0170	EA	45' Steel Straight Mast Arm, MONOTUBE.....	7,561.74	
34 41 13 00-0171	EA	50' Steel Straight Mast Arm, MONOTUBE.....	8,584.31	
34 41 13 00-0172	EA	55' Steel Straight Mast Arm, MONOTUBE.....	9,765.76	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0173 EA 60' Steel Straight Mast Arm, MONOTUBE.....	10,529.38	
34 41 13 00-0174 EA 65' Steel Straight Mast Arm, MONOTUBE.....	12,220.73	
34 41 13 00-0175 EA 4' Steel Curved Luminaire Mast Arm	1,187.55	
For High Rise Arm, Add	102.07	
For High Rise Straight Arm, Add	81.66	
34 41 13 00-0176 EA 6' Steel Curved Luminaire Mast Arm	1,545.47	
For High Rise Arm, Add	136.46	
For High Rise Straight Arm, Add	109.17	
34 41 13 00-0177 EA 8' Steel Curved Luminaire Mast Arm	1,933.66	
For High Rise Arm, Add	170.85	
For High Rise Straight Arm, Add	136.68	
34 41 13 00-0178 EA 10' Steel Curved Luminaire Mast Arm	2,636.84	
For High Rise Arm, Add	200.87	
For High Rise Straight Arm, Add	160.70	
34 41 13 00-0179 EA 12' Steel Curved Luminaire Mast Arm	2,918.88	
For High Rise Arm, Add	236.90	
For High Rise Straight Arm, Add	189.52	
34 41 13 00-0180 EA 15' Steel Curved Luminaire Mast Arm	3,058.97	
For High Rise Arm, Add	264.19	
For High Rise Straight Arm, Add	211.35	
34 41 13 00-0181 EA 20' Steel Curved Luminaire Mast Arm	3,483.37	
For High Rise Arm, Add	315.50	
34 41 13 00-0182 EA 15' Tubular Aluminum Post.....	1,251.92	
34 41 13 00-0183 EA 17' Tubular Aluminum Post.....	1,331.92	
34 41 13 00-0184 EA 20' Tubular Aluminum Post.....	1,479.46	
34 41 13 00-0185 EA CUT-OFF POLE AND CAPPED	212.23	
34 41 13 00-0186 EA PAINT EXISTING SL/TS CONTROLLER COMPLETE.....	63.77	
34 41 13 00-0187 EA PAINT EXISTING TS POST COMPLETE.....	300.78	
34 41 13 00-0188 EA 1 Channel Loop Detector Amplifier	1,941.89	
34 41 13 00-0189 EA 4 Channel Loop Detector Amplifier	3,679.62	
34 41 13 00-0190 EA FLASHING BEACON WITH DOWNLIGHT.....	2,703.33	
34 41 13 00-0191 EA Flashing Beacon, Bracket Mounted.....	902.37	
34 41 13 00-0192 EA Flashing Beacon, Mast Arm Mounted.....	902.37	
34 41 13 00-0193 EA Flashing Beacon, Solar Powered, Bracket Mounted.....	24,298.83	
34 41 13 00-0194 EA Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	4,394.13	
34 41 13 00-0195 EA Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US).....	2,361.96	
34 41 13 00-0196 EA Smart Sensor HD (Wavetronix HD125)	12,550.89	
34 41 13 00-0197 EA Access Point (Sensys AP240-ES)	5,806.13	
Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0198 EA Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	10,041.77	
34 41 13 00-0199 EA Mounting Kit for Access Points and Repeaters (KIT-MTG).....	358.36	
34 41 13 00-0200 EA Repeater (Sensys RP240-B-LL)	2,660.25	
Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41 13 00-0201 EA Wireless Flush Mounted Sensor (Sensys VSN240-F)	1,193.73	
Note: Excludes coring.		
34 41 13 00-0202 EA Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	2,985.35	
34 41 13 00-0203 EA Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	7,891.06	1.98
34 41 13 00-0204 EA Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 And 26-4-80 Poles.....	10,320.69	1.98
34 41 13 00-0205 EA Pole Base Foundation for Type 15 and 21 Poles.....	6,162.71	1.98
34 41 13 00-0206 EA Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles.....	7,891.06	1.98
34 41 13 00-0207 EA Pole Base Foundation for 26-4-100 And 27-4-100 Poles.....	10,320.69	1.98
34 41 13 00-0208 EA Service Equipment Enclosure, Type III-AF	1,550.87	
34 41 13 00-0209 EA 12", 3 Section Signal, Mast Arm Mounted	1,830.48	
34 41 13 00-0210 EA 8", 3 Section Signal, Mast Arm Mounted	1,632.83	
34 41 13 00-0211 EA 12" FCV Visor	110.77	
34 41 13 00-0212 EA 8" FCV Visor	78.66	
34 41 13 00-0213 EA Eggcrate Visor	106.79	
34 41 13 00-0214 EA Pedestrian H/M	1,208.17	
34 41 13 00-0215 EA Pedestrian Audio	1,326.45	
34 41 13 00-0216 EA Adjustable Pushbutton	328.56	
34 41 13 00-0217 EA ADA Cap And Switch.....	416.93	
34 41 13 00-0218 EA 3 Section 12" Backplate.....	179.51	
34 41 13 00-0219 EA 3 Section 12" MAS Mount Backplate	264.50	
34 41 13 00-0220 EA 3 Section 8" Backplate.....	144.71	
34 41 13 00-0221 EA 12" Red LED Lenses	304.87	
34 41 13 00-0222 EA 12" Amber LED Lenses	326.96	
34 41 13 00-0223 EA 12" Green LED Lenses	569.34	
34 41 13 00-0224 EA 12" Red Arrow.....	303.09	
34 41 13 00-0225 EA 12" Amber Arrow.....	286.91	
34 41 13 00-0226 EA 12" Green Arrow	428.68	
34 41 13 00-0227 EA 8" Red	299.82	
34 41 13 00-0228 EA 8" Amber	287.86	
34 41 13 00-0229 EA 8" Green	346.83	
34 41 13 00-0230 EA Hand/Man	523.52	
34 41 13 00-0231 EA Frameworks, 8" TV-1-T.....	638.23	
34 41 13 00-0232 EA Frameworks, 8" TV-2-T.....	724.06	
34 41 13 00-0233 EA Frameworks, MAT MT	190.64	
34 41 13 00-0234 EA Frameworks, MAS MT	207.80	
34 41 13 00-0235 EA Frameworks, 3W PT TC	441.58	



Transportation			34
Transportation Signaling and Control Equipment			34 40
Roadway Signaling and Control Equipment			34 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0236	EA		Frameworks, 2W PT TC	416.88	
34 41 13 00-0237	EA		Frameworks, 2W SM TC	393.99	
34 41 13 00-0238	EA		Frameworks, SV-1	261.64	
34 41 13 00-0239	EA		Frameworks, TV-1	253.06	
34 41 13 00-0240	EA		Type III Service Pedestal	5,005.61	
34 41 13 00-0241	EA		Single Fuse Holder	48.06	
34 41 13 00-0242	EA		Double Fuse Holder	120.12	
34 41 13 00-0243	EA		Pullbox, 1-1/2" x 20" x 14"	110.38	
34 41 13 00-0244	EA		Pullbox, 5" x 28" x 18"	149.46	
34 41 13 00-0245	EA		Pullbox, 6" x 36" x 23"	194.57	
34 41 13 00-0246	EA		Pullbox Lids, FL9D	119.33	
34 41 13 00-0247	EA		Pullbox Lids, FL30D	222.47	
34 41 13 00-0248	EA		Pullbox Lids, FL36D	66.29	
34 41 13 00-0249	EA		LED Enhanced Pedestrian Crossing Symbol Sign	2,108.55	123.80
			Note: 2 required per system.		
34 41 13 00-0250	EA		42" Height, 8-1/2" Diameter Automatic Bollard Activation System	6,082.13	742.80
			Note: 4 required per system.		
34 41 13 00-0251	EA		Power Control Unit With Enclosure (Solar)	21,365.87	495.20
			Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41 13 00-0252	EA		Power Control Unit With Enclosure (A/C)	13,705.20	495.20
34 41 13 00-0253	EA		Push Button Assembly With Sign	1,210.41	247.60
34 41 13 00-0254	EA		Advanced Warning Signs	2,386.53	247.60
34 41 13 00-0255	EA		14' High Galvanized Steel Traffic Signal Pole	4,270.09	
			Note: For mast arm.		
34 41 13 00-0256	EA		21' High Galvanized Steel Traffic Signal Pole	6,526.27	
			Note: For mast arm.		
34 41 13 00-0257	EA		22' High Galvanized Steel Traffic Signal Pole	6,781.00	
			Note: For mast arm and luminaire arm.		
34 41 13 00-0258	EA		30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm	9,180.94	
			Note: For mast arm and luminaire arm.		
34 41 13 00-0259	EA		32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm	9,728.59	
			Note: For mast arm and luminaire arm.		
34 41 13 00-0260	EA		30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm	7,590.61	
34 41 13 00-0261	EA		30' High Galvanized Steel Traffic Signal Pole, Octafute	6,761.17	
34 41 13 00-0262	EA		30' (High Spun Aluminum Traffic Signal Pole, Tapered	5,506.63	
34 41 13 00-0263	EA		Type 26-6-70 Signal Pole With 55' SMA And 20' LMA	27,097.20	
34 41 13 00-0264	EA		Type 29-6-70 Signal Pole With 65' SMA And 20' LMA	31,283.21	
34 41 13 00-0265			Traffic Signal Cable (34 41 13)		
34 41 13 00-0266	LF		16 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.55	1.05
34 41 13 00-0267	LF		16 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.89	1.14
34 41 13 00-0268	LF		16 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.21	1.21
34 41 13 00-0269	LF		16 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.53	1.28
34 41 13 00-0270	LF		16 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.91	1.36
34 41 13 00-0271	LF		16 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.59	1.51
34 41 13 00-0272	LF		16 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.42	1.74
34 41 13 00-0273	LF		16 AWG, 12-Conductor, Solid, Traffic Signal Cable	6.24	1.96
34 41 13 00-0274	LF		16 AWG, 16-Conductor, Solid, Traffic Signal Cable	7.46	2.19
34 41 13 00-0275	LF		16 AWG, 20-Conductor, Solid, Traffic Signal Cable	8.94	2.41
34 41 13 00-0276	LF		14 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.66	1.05
34 41 13 00-0277	LF		14 AWG, 3-Conductor, Solid, Traffic Signal Cable	3.04	1.14
34 41 13 00-0278	LF		14 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.41	1.21
34 41 13 00-0279	LF		14 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.77	1.28
34 41 13 00-0280	LF		14 AWG, 6-Conductor, Solid, Traffic Signal Cable	4.21	1.36
34 41 13 00-0281	LF		14 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.98	1.51
34 41 13 00-0282	LF		14 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.90	1.74
34 41 13 00-0283	LF		14 AWG, 12-Conductor, Solid, Traffic Signal Cable	6.82	1.96
34 41 13 00-0284	LF		14 AWG, 16-Conductor, Solid, Traffic Signal Cable	8.23	2.19
34 41 13 00-0285	LF		14 AWG, 20-Conductor, Solid, Traffic Signal Cable	9.96	2.41
34 41 13 00-0286	LF		12 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.92	1.05
34 41 13 00-0287	LF		12 AWG, 3-Conductor, Solid, Traffic Signal Cable	3.42	1.14
34 41 13 00-0288	LF		12 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.89	1.21
34 41 13 00-0289	LF		12 AWG, 5-Conductor, Solid, Traffic Signal Cable	4.34	1.28
34 41 13 00-0290	LF		12 AWG, 6-Conductor, Solid, Traffic Signal Cable	4.93	1.36
34 41 13 00-0291	LF		12 AWG, 8-Conductor, Solid, Traffic Signal Cable	5.92	1.51
34 41 13 00-0292	LF		12 AWG, 10-Conductor, Solid, Traffic Signal Cable	7.06	1.74
34 41 13 00-0293	LF		12 AWG, 12-Conductor, Solid, Traffic Signal Cable	8.20	1.96
34 41 13 00-0294	LF		12 AWG, 16-Conductor, Solid, Traffic Signal Cable	10.08	2.19
34 41 13 00-0295	LF		12 AWG, 20-Conductor, Solid, Traffic Signal Cable	12.43	2.41
34 41 13 00-0296			School Zone Flasher Beacons (34 41 13)		
34 41 13 00-0297	EA		One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly	6,405.05	227.57
			Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0298	EA		One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly	6,450.78	227.57
			Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0299 EA Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	7,227.29	227.57
34 41 13 00-0300 EA Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	7,373.65	227.57
34 41 13 00-0301 EA 10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.	13,555.01	227.57
34 41 13 00-0302 EA 10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	14,128.59	227.57
34 41 13 00-0303 Traffic Light Control Synchronization (34 41 13)		
34 41 13 00-0304 EA ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	5,565.22	
34 41 13 00-0305 EA ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	4,151.29	
34 41 13 00-0306 EA ENCOM Dual 2.4/2.4 GHz Broadband Radio with Integrated Antenna (COMMPAKBB24/24).....	9,509.04	
34 41 13 00-0307 EA 5.8 GHz Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	6,498.48	
34 41 13 00-0308 EA 2.4 GHz Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	6,498.48	
34 41 13 00-0309 EA Solar Cabinet Assembly.....	17,524.29	
34 41 13 00-0310 EA Data Controller Interface Cable Assembly	692.51	
34 41 13 00-0311 EA 900 MHz Splitter	821.34	
34 41 13 00-0312 EA 900 MHz Surge Suppressor.....	296.13	
34 41 13 00-0313 EA Surge-Radio Lead in Cable.....	186.34	
34 41 13 00-0314 EA 12DB GAIN YAGI Antenna	836.83	
34 41 13 00-0315 EA PELCO Antenna Mounting Bracket	557.80	
34 41 13 00-0316 MLF Coaxial Cable, LMR-400.....	4,514.38	
34 41 13 00-0317 EA Perle 16 Port Serial Server	4,700.55	
34 41 13 00-0318 EA Serial to Ethernet Card	2,503.55	
34 41 13 00-0319 EA 404 Stand-Alone Modem (GDI 404)	2,280.11	
34 41 13 00-0320 Traffic Signal Controls (34 41 13)		
34 41 13 00-0321 EA Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2).....	1,975.03	
34 41 13 00-0322 EA Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	823.69	
34 41 13 00-0323 EA Access Box for contract closure master card (CC-ACC).....	290.41	
34 41 13 00-0324 EA Flush Mount Wireless Sensor (ATT VSN240-F)	1,118.48	
34 41 13 00-0325 EA Flush Mount Wireless Sensor (Speed And Count VSN240-F).....	1,118.48	
34 41 13 00-0326 EA Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	172.40	
34 41 13 00-0327 EA SNAPS License for each enabled AP (SNAPS-PER-AP).....	474.22	
34 41 13 00-0328 Traffic Signal Devices (34 41 13)		
34 41 13 00-0329 EA 12" Polycarbonate Signal Head Housing (McCain).....	1,046.88	111.42
34 41 13 00-0330 EA 16" Polycarbonate Pedestrian Signal Housing (McCain)	533.84	86.66
34 41 13 00-0331 EA Pedestrian Push Button Cap And Switch (McCain M31334)	404.28	160.94
34 41 13 00-0332 EA Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	552.84	235.22
34 41 13 00-0333 EA Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793)	424.96	185.70
34 41 13 00-0334 EA 16 Channel Conflict Monitor (McCain 2010 ECLIP)	1,572.11	80.47
34 41 13 00-0335 EA LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	323.53	30.95
34 41 13 00-0336 EA Traffic signal Video Detection Camera (Iteris R24-awdr).....	3,558.22	136.18
34 41 13 00-0337 EA Camera processor card (Iteris Edge Connect).....	8,121.54	198.09
34 41 13 00-0338 EA Wireless Broadband Radio (Encom BB58).....	7,669.30	185.70
34 41 13 00-0339 EA 24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900)	5,066.25	148.56
34 41 13 00-0340 EA Power Adapter (Mean Well DR-120-48)	178.57	46.43
34 41 13 00-0341 LF 14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	1.05	
34 41 13 00-0342 EA Radar Detection System (Wavetronix Matrix)	14,705.40	470.44
34 41 13 00-0343 EA Pedestrian Audio Push Button (Polaris APS)	440.78	117.61
34 41 13 00-0344 EA Opticom Infrared System - Detector (GTT 711)	1,139.66	110.43
34 41 13 00-0345 EA Opticom Infrared System - Detector (GTT 721)	1,275.09	123.55
34 41 13 00-0346 EA Opticom Infrared System - Detector (GTT 722)	1,775.93	172.09
34 41 13 00-0347 EA Opticom Multimode Phase Selector (GTT 764)	5,871.00	101.83
34 41 13 00-0348 LF Opticom GPS Installation Cable (GTT 1070).....	1.26	
34 41 13 00-0349 EA Precast Concrete Traffic Pull Box, 5-T, with steel frame and diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324)	980.79	
34 41 13 00-0350 EA Precast Concrete Traffic Pull Box, 6-T, with steel frame and diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730)	1,040.28	
34 41 13 00-0351 EA UPS Module (Alpha Technologies FXM 350)	1,593.91	67.74
34 41 13 00-0352 EA Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual)..... Note: To control flashing "School" signs	502.74	55.71
34 41 13 00-0353 LF Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR).....	11.25	0.57
34 41 13 00-0354 LF Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber)	2.73	0.49
34 41 13 00-0355 EA 12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	150.53	55.71
34 41 13 00-0356 EA 12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	150.53	55.71
34 41 13 00-0357 EA 12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	150.53	55.71
34 41 13 00-0358 EA 12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	150.53	55.71
34 41 13 00-0359 EA 12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	150.53	55.71
34 41 13 00-0360 EA 12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	150.53	55.71



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Transportation Signaling and Control Equipment		34 40
Roadway Signaling and Control Equipment		34 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0361	EA		LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	443.71	142.37
34 41 13 00-0362	EA		EOC Switch (Actellis ML688).....	5,835.42	440.31
34 41 13 00-0363	EA		Ethernet Extender Kit (ENABLE-IT 860 Pro).....	1,571.50	101.61
34 41 13 00-0364	EA		#5 pull box lid (Concrete, Bolt down) (Christy N30T).....	125.66	26.22
34 41 13 00-0365	EA		#5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	450.57	37.95
34 41 13 00-0366	EA		#6 pull box lid (Concrete, Bolt down) (Christy N36T).....	156.38	26.22
34 41 13 00-0367	EA		#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	545.65	37.95
34 41 13 00-0368	EA		Battery Back-up (Alpha FXM110 UPS).....	3,775.49	135.48
34 41 13 00-0369	EA		Battery (Alpha AlphaCell 220GXL).....	535.00	33.87
34 41 13 00-0370	EA		BBS Cabinet (Alpha SE48-1616).....	4,347.81	304.82
34 41 13 00-0371	LF		Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	6.70	2.64
34 41 13 00-0372	LF		Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	2.96	1.22
34 41 13 00-0373	EA		FDU And Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	1,351.00	101.61
34 41 13 00-0374	EA		12" THREE SECTION HOUSING (McCain M22435).....	929.84	67.74
34 41 13 00-0375	EA		12" FOUR SECTION HOUSING (McCain M30883).....	1,196.16	101.61
34 41 13 00-0376	EA		12" FIVE SECTION HOUSING (McCain M31769).....	1,394.75	101.61
34 41 13 00-0377	EA		12" CLUSTER, WITHOUT MAS (McCain M30987).....	1,494.05	101.61
34 41 13 00-0378	EA		CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	929.84	67.74
34 41 13 00-0379	EA		NAVIGATOR IN2 APS 2 WIRE PPB #N250N0-B (Polara iN250N0-B).....	929.84	67.74
34 41 13 00-0380	EA		NAVIGATOR IN2 CONTROLLER RACK MOUNT ICCU-C (Polara ICCU-C).....	5,438.93	237.08
34 41 13 00-0381	EA		NAVIGATOR IN2 INTERCONNECT BOARD IN2-ICB-C (Polara IN2-ICB-C).....	266.33	33.87
34 41 13 00-0382	EA		NAVIGATOR IN2 POWER SUPPLY IN2-150-WPS-C (Polara IN2-150-WPS-C).....	266.33	33.87
34 41 13 00-0383	EA		NAVIGATOR IN2 CONNECTOR IN2-C4CABLE-C (Polara IN2-c4cable-C).....	598.09	50.80
34 41 13 00-0384	EA		12" Visor (McCain M19302).....	46.96	13.55
34 41 13 00-0385	EA		LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	498.79	50.80
34 41 13 00-0386	EA		SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258).....	830.54	67.74
34 41 13 00-0387	EA		CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259).....	1,543.69	101.61
34 41 13 00-0388	EA		ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487).....	830.54	67.74
34 41 13 00-0389	EA		HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	167.04	33.87
34 41 13 00-0390	EA		ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	498.79	50.80
34 41 13 00-0391	EA		CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	929.84	67.74
34 41 13 00-0392	EA		242L ISOLATOR, EDI (McCain M56812).....	167.04	33.87
34 41 13 00-0393	EA		EDI 222 DETECTOR (McCain M11407).....	216.68	33.87
34 41 13 00-0394	EA		ALPHA BBS, INVERTER AND BYPASS SWITCH (McCain M59763).....	3,714.72	169.34
34 41 13 00-0395	EA		GENERATOR SWITCH AND PLUG ASSY FOR ALPHA BBS (McCain M68752-2).....	612.10	67.74
34 41 13 00-0396	EA		BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	830.54	67.74
34 41 13 00-0397	EA		Battery Backup Cabinet Anondize 44x26x12 (McCain M64438A).....	1,742.28	101.61

34 41 16 Traffic Control Equipment (34 41)**34 41 16 00-0001 Transportation Control Equipment (34 41 16)**

34 41 16 00-0002	EA		CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	12,007.33	1,046.21
34 41 16 00-0003	EA		CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	12,127.85	1,106.45
34 41 16 00-0004	EA		CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	14,837.30	1,119.47
34 41 16 00-0005	EA		CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	17,631.04	1,359.23
34 41 16 00-0006	EA		CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	14,605.22	670.53
34 41 16 00-0007	EA		CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	16,195.23	734.10
34 41 16 00-0008	EA		CONTROLLER, TS, 12-BAY, "M" CABINET.....	26,689.56	1,154.13
34 41 16 00-0009	EA		CONTROLLER, TS, 12-BAY, "P" CABINET.....	28,394.91	1,279.01
34 41 16 00-0010	EA		CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER.....	40,721.47	1,437.93
34 41 16 00-0011	EA		CONTROLLER, TS, 16-BAY, "P" CABINET.....	32,200.41	1,362.26
34 41 16 00-0012	EA		CONTROLLER, PEDESTRIAN CROSSING, ADD-IN.....	920.28	159.99
34 41 16 00-0013	EA		CONCRETE BLOCK PEDESTAL.....	849.18	240.21
34 41 16 00-0014	WK		MAINTAIN EXIST TS INSTALLATION.....	376.37	188.18
34 41 16 00-0015	EA		INST SIGN BOARDS, ST. NAME.....	675.80	316.80
34 41 16 00-0016	EA		F.O. ADD-IN FOR LOCAL CONTROLLER.....	13,583.02	423.76
34 41 16 00-0017	EA		F.O. ADD-IN FOR MASTER CONTROLLER.....	32,930.86	635.84
34 41 16 00-0018	EA		PDU Equipped netBooster With IEC320 C13 Outlets (Synaccess NP-0808DUH).....	1,135.18	17.65
34 41 16 00-0019	EA		Remote Power Switched netBooster PDU, 8 Independent Outlets (Synaccess NP-0801DU).....	644.89	17.65

34 41 16 00-0020 Transportation Cabinets (34 41 16)**34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)**

34 41 16 00-0022	EA		50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures).....	2,980.53	203.21
34 41 16 00-0023	EA		66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	12,736.14	203.21
34 41 16 00-0024	EA		46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	2,785.86	203.21
34 41 16 00-0025	EA		50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures).....	2,980.53	203.21
34 41 16 00-0026	EA		60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	13,168.76	203.21
34 41 16 00-0027	EA		55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,920.61	203.21

34 41 16 00-0028 Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)

34 41 16 00-0029	EA		28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017).....	7,274.93	237.08
Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.					

34 41 16 00-0030 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0031 EA 30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S)	2,810.63	203.21
34 41 16 00-0032 EA 30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S)	3,505.55	216.76
34 41 16 00-0033 Transportation Cabinets (McCain) (34 41 16 00-0020)		
34 41 16 00-0034 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i)	13,273.58	237.08
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0035 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332)	13,273.58	237.08
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0036 EA ATC ColdFire Controller (McCain 170)	6,797.56	
34 41 16 00-0037 Traffic Control Equipment (34 41 16)		
34 41 16 00-0038 EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15)	337.61	67.74
34 41 16 00-0039 EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M)	447.13	67.74
34 41 16 00-0040 EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M)	516.70	67.74
34 41 16 00-0041 EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30)	398.43	67.74
34 41 16 00-0042 MLF 10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R)	3,130.19	742.80
34 41 16 00-0043 EA Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02)	134.52	33.87
34 41 16 00-0044 EA Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141)	619.20	75.85
34 41 16 00-0045 EA Detection System, Vehicle, Two Sensor Preassembled Backplate, with AC Power (Wavetronix WX-SSB01-0003)	3,260.03	227.57
34 41 16 00-0046 EA Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204)	590.87	33.87
34 41 16 00-0047 EA Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114)	846.88	33.87
34 41 16 00-0048 EA 4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104)	970.27	67.74
34 41 16 00-0049 EA Detection System, Vehicle, Four Sensor Preassembled Backplate, With AC Power, Wavetronix SmartSensor (Wavetronix WX-SS-B01-0005)	4,276.04	67.74
34 41 16 00-0050 EA 50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060)	455.14	227.57
34 41 16 00-0051 EA 60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060)	614.65	56.89
34 41 16 00-0052 EA 900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119)	530.16	75.85
34 41 16 00-0053 EA 900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120)	329.81	75.85
34 41 16 00-0054 EA Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201)	368.26	33.87
34 41 16 00-0055 EA 24 Volt DC 2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-202)	446.18	33.87
34 41 16 00-0056 EA Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250)	201.31	33.87
34 41 16 00-0057 EA Power, RS232/RS485 Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-200)	602.01	33.87
34 41 16 00-0058 EA Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222)	679.92	33.87
34 41 16 00-0059 EA RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304)	846.88	33.87
34 41 16 00-0060 EA Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301)	67.74	33.87
34 41 16 00-0061 EA Sensor Mount, Heavy-Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611)	541.29	75.85
34 41 16 00-0062 MLF LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400)	3,686.72	742.80
34 41 16 00-0063 EA N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC)	65.13	20.32
34 41 16 00-0064 EA Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	1,102.68	81.29
34 41 16 00-0065 EA Spectra III Clear Pendant Lower Dome, Heavy-Duty (Pelco Id53hdp-1)	1,069.05	101.61
34 41 16 00-0066 EA 24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	220.42	33.87
34 41 16 00-0067 EA 10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	162.44	33.87
34 41 16 00-0068 EA 24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2)	574.53	33.87
34 41 16 00-0069 EA Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	236.81	33.87
34 41 16 00-0070 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	93.07	33.87
34 41 16 00-0071 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009)	803.31	67.74
Note: Input/Output for sign peripherals.		
34 41 16 00-0072 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009)	803.31	67.74
Note: Input/Output for sign peripherals.		
34 41 16 00-0073 EA Control Area Network Distribution Board (Daktronics 0P-1248-0005)	1,526.80	67.74
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074 EA Control Area Network Distribution Board (Daktronics 0P-1248-0011)	1,526.80	67.74
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019)	513.92	67.74
Note: Measures temperature and detects light and reports to CAN Distribution Board.		
34 41 16 00-0076 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015)	736.53	67.74
Note: Measures temperature and detects light and humidity and reports to CAN Distribution board.		
34 41 16 00-0077 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021)	736.53	67.74
Note: Measures temperature and detects light and humidity and reports to CAN Distribution board.		
34 41 16 00-0078 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003)	602.96	67.74
Note: Measures temperature and detects light and reports to CAN Distribution board.		
34 41 16 00-0079 EA Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics 0A-1248-0016)	10,559.38	270.95
Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0080 EA DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025)	446.18	33.87
Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Distribution Board, providing power redundancy.		
34 41 16 00-0081 EA Driver (Daktronics 0P-1100-0026)	842.99	54.19
Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0082 EA External Temp Sensor (Daktronics 0P-1100-0014)	742.82	54.19
Note: Sensor that measures ambient temperature.		
34 41 16 00-0083 EA Internal Temp Sensor (Daktronics 0P-1100-0038)	831.86	54.19
Note: Sensor that measures sign internal temperature.		
34 41 16 00-0084 EA Light Level Detector (Daktronics 0P-1151-0002)	497.95	54.19
Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0085 EA Module (Daktronics 0A-1253-0608)	1,526.80	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		



Transportation		34
Transportation Signaling and Control Equipment		34 40
Roadway Signaling and Control Equipment		34 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0086 EA Module (Daktronics 0A-1253-3018).....	1,916.36	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087 EA Module (Daktronics 0A-1266-5002).....	1,693.75	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6252).....	2,361.58	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089 EA Module (Daktronics 0A-1332-6455).....	1,916.36	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090 EA Module (Daktronics 0A-1332-6654).....	1,916.36	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091 EA Module (Daktronics 0P-1332-3015).....	1,025.92	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092 EA Module (Daktronics 0P-1332-4116).....	1,025.92	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031).....	1,025.92	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017).....	1,025.92	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603).....	1,526.80	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.		
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605).....	1,526.80	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.		
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601).....	1,526.80	67.74
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.		
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016).....	525.05	67.74
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029).....	614.09	67.74
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0100 EA Power Supply (Daktronics A-1593).....	1,805.06	67.74
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0101 EA Power Supply (Daktronics A-1648).....	1,805.06	67.74
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0102 EA Power Supply (Daktronics A-2307).....	692.01	67.74
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129).....	281.64	40.64
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412).....	582.16	40.64
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772).....	582.16	40.64
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139).....	860.43	40.64
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022).....	1,460.01	67.74
Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.		
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001).....	1,972.02	67.74
Note: Input/Output board for sign peripherals.		
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R).....	1,304.19	67.74
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000).....	858.96	67.74
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075).....	324.70	67.74
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028).....	10,559.38	270.95
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015).....	736.53	67.74
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053).....	123.39	33.87
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792).....	156.78	33.87
34 41 16 00-0116 EA Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF).....	970.27	67.74
34 41 16 00-0117 EA Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF).....	970.27	67.74
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	1,263.39	67.89
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	1,263.39	67.89
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E).....	6,816.12	67.89
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	1,631.03	67.89
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261).....	223.72	33.87
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	780.22	67.89
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD).....	2,028.99	67.89
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4).....	303.56	67.74
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B).....	646.54	67.74
34 41 16 00-0127 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	309.36	16.97
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	3,912.51	135.48
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1).....	244.24	33.87
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM).....	3,548.90	67.74
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM).....	8,351.28	335.30
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	1,119.90	176.12
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	27.89	10.84
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy-Duty, Safety Switch (Square D H362DS).....	2,900.46	135.48
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	61.68	10.84
34 41 16 00-0136 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	2,576.21	75.85
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	143.27	51.48
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (MultiLink 10-4469).....	408.03	67.74
34 41 16 00-0139 EA Single AC Inlet, 8 NEMA 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	723.97	17.65

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT H)	780.21	17.65
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	414.78	27.10
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E)	5,002.65	162.57
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC)	185.65	31.16
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK)	47.26	6.77
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC)	1,574.81	67.74
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E)	5,434.96	135.48
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000)	3,675.43	223.54
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	870.56	387.47
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S)	606.78	270.95
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	124.53	36.58
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	94.19	24.38
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	74.07	24.38
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	74.07	24.38
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4)	303.56	67.74
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC)	343.47	33.94
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC)	3,193.55	33.94
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	623.23	17.65
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	12,828.10	227.57
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9)	491.22	75.85

34 70 Transportation Construction and Equipment ⁽³⁴⁾**34 71 Roadway Construction** ^(34 70)**34 71 13 Vehicle Barriers** ^(34 71)**34 71 13 13 Vehicle Median Barriers** ^(34 71 13)**34 71 13 13-0001 Concrete Median Barrier** ^(34 71 13 13)

34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	73.06	4.70
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face	123.71	4.70
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face	176.40	4.70
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	54.74	7.72
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	42.98	3.85

34 71 13 16 Vehicle Crash Barriers ^(34 71 13)**34 71 13 16-0001 Impact Barrier, Non-Redirective** ^(34 71 13 16)**34 71 13 16-0002 Sand Barrel Impact Attenuator** ^(34 71 13 16-0001)

Note: Includes containers, inserts, and lid. Excludes sand.

34 71 13 16-0003 EA 200, 400 Or 700 Lb. Sand Barrel	607.92	55.35
34 71 13 16-0004 EA 1,400 Lb. Sand Barrel	573.04	64.97
34 71 13 16-0005 EA 2,100 Lb. Sand Barrel	620.45	74.59

Note: Includes containers, inserts, and lid.

34 71 13 16-0006 Sand For Sand Barrel Impact Attenuator ^(34 71 13 16-0001)

34 71 13 16-0007 LB Sand for Sand Barrels.....	0.11	

34 71 13 26 Vehicle Guide Rails ^(34 71 13)**34 71 13 26-0001 Mobilize Guide Rail Crew** ^(34 71 13 26)

34 71 13 26-0002 EA Mobilize Guide Rail Crew	1,406.77	

Note: Excludes equipment mobilization.

34 71 13 26-0003 Corrugated Beam Guide Rail ^(34 71 13 26)**34 71 13 26-0004 Corrugated Beam Guide Railing** ^(34 71 13 26-0003)**34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections** ^(34 71 13 26-0004)

Note: Add additional length for back-up sections.

34 71 13 26-0006 LF Corrugated Beam Guide Railing	38.76	2.52
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	45.98	2.52

34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved ^(34 71 13 26-0004)

Note: Add additional length for back-up sections.



Transportation			34
Transportation Construction and Equipment			34 70
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0009 LF Shop Curved Corrugated Beam Guide Railing	52.05	2.52
34 71 13 26-0010 LF Shop Curved Corrugated Beam Guide Railing (Rustic)	62.01	2.52
34 71 13 26-0011 LF Shop Curved Corrugated Beam Guide Railing End	140.52	2.52
Note: Treatment for mall barriers driveways, walkways, special end, etc.		
34 71 13 26-0012 LF Shop Curved Corrugated Beam Guide Railing (Rustic) End	161.25	2.52
Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.		
34 71 13 26-0013 Corrugated Beam Guide Railing, Manufactured End Sections (34 71 13 26-0003)		
34 71 13 26-0014 EA Corrugated Beam Guide Railing End Section At Anchor Unit	267.24	33.16
34 71 13 26-0015 EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit	285.33	33.16
34 71 13 26-0016 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section	375.74	33.16
34 71 13 26-0017 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic)	393.83	33.16
34 71 13 26-0018 EA Corrugated Beam Guide Railing 225 Degree End Section	375.74	33.16
34 71 13 26-0019 EA Corrugated Beam Guide Railing 225 Degree End Section (Rustic)	393.83	33.16
34 71 13 26-0020 Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003)		
Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021 EA Regent Flared End Terminal Head With Bracket, Type B And C	10,667.89	202.37
34 71 13 26-0022 EA Fleet Flared End Terminal Head With Bracket	8,859.53	202.37
34 71 13 26-0023 EA SKT 350 Tangent End Terminal Head With Bracket	10,667.89	202.37
34 71 13 26-0024 EA 12'-6" Corrugated Beam Pre-drilled #1 Panel	1,483.47	95.40
34 71 13 26-0025 EA Terminal Support System, Type SFT	1,056.47	255.08
34 71 13 26-0026 EA Terminal Support System, Type ET	5,202.50	721.92
34 71 13 26-0027 EA Terminal Support System, Type SRT	5,648.32	721.92
34 71 13 26-0028 Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
Note: Includes mounting hardware.		
34 71 13 26-0029 EA Standard Post For Corrugated Beam Guide Rail	313.66	18.24
For Installation Without Soil Plate, Deduct		
For Installation In Rock, Add		
34 71 13 26-0030 EA Standard Post For (Rustic) Corrugated Beam Guide Rail	331.74	18.24
For Installation Without Soil Plate, Deduct		
For Installation In Rock, Add		
34 71 13 26-0031 EA Extra Long Post For Corrugated Beam Guide Rail	349.82	18.24
For Installation Without Soil Plate, Deduct		
For Installation In Rock, Add		
34 71 13 26-0032 EA Extra Long Post (Rustic) for Corrugated Beam Guide Rail	367.91	18.24
For Installation Without Soil Plate, Deduct		
For Installation In Rock, Add		
34 71 13 26-0033 EA 6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail	313.66	18.24
For Installation Without Soil Plate, Deduct		
For Installation In Rock, Add		
34 71 13 26-0034 EA Post Struts for Corrugated Beam Guide Rail Mall Barrier Post	458.33	18.24
For Installation In Rock, Add		
34 71 13 26-0035 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0036 EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	313.66	18.24
34 71 13 26-0037 EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	331.74	18.24
34 71 13 26-0038 EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide	349.82	18.24
34 71 13 26-0039 EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail	367.91	18.24
Note: For heavy post blocked out corrugated beam guide (rustic)		
34 71 13 26-0040 EA Type A Post 1630mm Post	304.62	18.24
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0041 EA Type A Post 1630mm Post (Rustic)	322.70	18.24
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0042 EA Type B Post 1460mm	286.53	18.24
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0043 EA Type B Post 1460mm (Rustic)	304.62	18.24
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0044 EA Type C Post 1290mm	268.45	18.24
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0045 EA Type C Post 1290mm (Rustic)	286.53	18.24
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0046 EA Breakaway Wood Or Steel Post In Steel Foundation Tube	1,220.73	18.24
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam	114.74	18.24
Note: For heavy post blocked out corrugated beam guide rail.		
34 71 13 26-0048 Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)		
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C	231.08	37.68
34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003)		
Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post	14.73	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail	50.24	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post	8.54	

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0054	Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0055	Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0056	LF Corrugated Thrie Beam Guide Railing.....	96.54	3.17
34 71 13 26-0057	LF Corrugated Thrie Beam Guide Railing (Rustic).....	102.06	3.17
34 71 13 26-0058	Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0059	LF Shop Curved Corrugated Thrie Beam Guide Railing	118.59	3.17
34 71 13 26-0060	LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	124.10	3.17
34 71 13 26-0061	Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054) Note: Includes hardware for mounting.		
34 71 13 26-0062	EA Standard Post For Corrugated Thrie Beam Guide Rail.....	402.06	3.17
	For Installation Without Soil Plate, Deduct	-5.00	
	For 32" Soil Plate, Add	7.00	
34 71 13 26-0063	EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail	420.14	3.17
	For Installation Without Soil Plate, Deduct	-5.00	
	For 32" Soil Plate, Add	7.00	
34 71 13 26-0064	Timber Guide Rails (34 71 13 26)		
	Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065	Timber Guide Rail Posts (34 71 13 26-0064)		
34 71 13 26-0066	EA 6" x 8" Timber Guide Rail Post	121.34	12.56
34 71 13 26-0067	EA 6" x 9" Timber Guide Rail Post	138.75	12.56
34 71 13 26-0068	EA 10" x 10" Timber Guide Rail Post	275.19	12.56
34 71 13 26-0069	EA 10" x 12" Timber Guide Rail Post	291.46	12.56
34 71 13 26-0070	EA 12" x 12" Timber Guide Rail Post	337.85	12.56
34 71 13 26-0071	Timber Guide Rails (34 71 13 26-0064) Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072	LF 4" x 9" Timber Guide Rail.....	15.07	1.51
34 71 13 26-0073	LF 6" x 10" Timber Guide Rail.....	21.34	1.51
34 71 13 26-0074	LF 6" x 12" Timber Guide Rail.....	25.01	1.51
34 71 13 26-0075	Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0076	EA 4" x 9" Spacer Block For Timber Guide Rails	19.61	2.01
34 71 13 26-0077	EA 6" x 8" Spacer Block For Timber Guide Rails	22.62	2.01
34 71 13 26-0078	EA 8" x 8" Spacer Block For Timber Guide Rails	26.45	2.01
34 71 13 26-0079	Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0080	LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	27.62	1.25
34 71 13 26-0081	Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0082	EA Weathering Steel Splice Plate For Timber Guide Rails.....	190.27	17.58
34 71 13 26-0083	EA Weathering Steel Bearing Termination Plate For Timber Guide Rails	119.02	12.56
34 71 13 26-0084	Cable Guide Rail (34 71 13 26)		
34 71 13 26-0085	Cable Guide Rail (34 71 13 26-0084)		
34 71 13 26-0086	LF Cable (Each Cable)	19.05	2.72
	Note: Includes tensioning. Excludes splices.		
34 71 13 26-0087	EA Cable Splice With Wedges	567.63	18.84
34 71 13 26-0088	Cable Guide Rail Posts (34 71 13 26-0084) Note: Includes hardware for cable mounting.		
34 71 13 26-0089	EA Standard Post for Cable Guide Rail.....	352.31	60.79
	For Installation Without Soil Plate, Deduct	-5.00	
	For Installation In Rock, Add	16.21	
34 71 13 26-0090	EA Standard Post (Rustic) for Cable Guide Rail.....	370.40	60.79
	For Installation Without Soil Plate, Deduct	-5.00	
	For Installation In Rock, Add	16.21	
34 71 13 26-0091	EA Extra Long Post for Cable Guide Rail	370.40	60.79
	For Installation Without Soil Plate, Deduct	-5.00	
	For Installation In Rock, Add	16.21	
34 71 13 26-0092	EA Extra Long Post (Rustic) for Cable Guide Rail.....	388.48	60.79
	For Installation Without Soil Plate, Deduct	-5.00	
	For Installation In Rock, Add	16.21	
34 71 13 26-0093	EA Slip Impact Post Top for Anchor Unit.....	249.42	24.32



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0094	EA	Slip Impact Post Base and Keeper Plate Note: For anchor unit.	701.51	24.32
34 71 13 26-0095		Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)		
34 71 13 26-0096	EA	Turnbuckle Cable End Assembly For Use With Breakaway Anchors	950.45	251.71
34 71 13 26-0097	EA	Turnbuckle Cable End Assembly	378.45	12.58
34 71 13 26-0098	EA	Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors	1,274.19	6.25
34 71 13 26-0099	EA	Spring Cable End Assembly (Compensating Device) Without Turnbuckle	1,310.36	6.25
34 71 13 26-0100	EA	Breakaway Anchor Angle	486.95	12.58
34 71 13 26-0101	EA	Standard End Post Cap Assembly	225.34	6.25
34 71 13 26-0102	EA	Driveway End Post Cap Assembly	189.18	6.25
34 71 13 26-0103	EA	End Post Ground Support Plates	98.76	6.25
34 71 13 26-0104	EA	11" Stud Bolt, Cable Guide Rail	85.20	6.25
34 71 13 26-0105	EA	18" Stud Bolt, Cable Guide Rail	103.28	6.25
34 71 13 26-0106	EA	25" Stud Bolt, Cable Guide Rail	121.36	6.25
34 71 13 26-0107	EA	1-1/4" Diameter Turnbuckle, Cable Guide Rail	1,101.80	12.58
34 71 13 26-0108	EA	1-1/2" Diameter Turnbuckle, Cable Guide Rail	1,174.13	12.58
34 71 13 26-0109	EA	5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail	776.29	12.58
34 71 13 26-0110	EA	5/8" Eye Bolt 18" Long, Cable Guide Rail	478.51	6.25
34 71 13 26-0111	EA	3/4" Eye Bolt 8'-6" Long, Cable Guide Rail	486.95	12.58
34 71 13 26-0112	EA	1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail	513.38	18.84
34 71 13 26-0113		Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)		
34 71 13 26-0114	EA	Turnbuckle Cable End Assembly	877.00	20.31
		Note: For use with slip impact post.		
34 71 13 26-0115	EA	Spring Cable End Assembly (Compensating Device)	1,745.01	20.31
		Note: For use with slip impact post.		
34 71 13 26-0116	EA	Anchor Angle For Slip Impact Post System	497.24	20.31
34 71 13 26-0117	EA	Cable End Assembly Rod	406.83	20.31
		Note: Includes cable end, threaded rod and keeper to anchor angle.		
34 71 13 26-0118		Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084)		
		Note: Includes associated hardware.		
34 71 13 26-0119	LF	Retention Existing Cable (Each Cable)	1.67	
34 71 13 26-0120	LF	Removal And Storage Of Cable Guide Railing	10.12	
34 71 13 26-0121	EA	Install Stored Post For Cable Guide Railing	81.06	
34 71 13 26-0122	LF	Install Stored Cable, (Each Cable)	4.47	
		Note: Includes retensioning. Excludes splices.		
34 71 13 26-0123		6" x 6" Box Beam Guide Rail (34 71 13 26)		
34 71 13 26-0124		Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)		
34 71 13 26-0125		Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0126	LF	Box Beam Guide Railing 6" x 6" x 3/16" Galvanized	117.21	3.17
		Note: Excludes splices.		
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0127	LF	Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)	133.75	3.17
		Note: Excludes splices.		
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0128	LF	Box Beam Guide Railing 8" x 6" x 3/16" Galvanized	139.85	3.17
		Note: Excludes splices		
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0129		Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0130	LF	Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized	180.60	3.17
		Note: Excludes splices.		
		For Shop Curved At <20' Radius, Add	2.44	
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0131	LF	Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic)	197.14	3.17
		Note: Excludes splices.		
		For Shop Curved At <20' Radius, Add	2.44	
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0132	LF	Shop Curved Box Beam Guide Railing 8" x 6" x 3/16" Galvanized	215.80	3.17
		Note: Excludes splices.		
		For Shop Curved At <20' Radius, Add	2.44	
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0133		Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123)		
		Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0134	EA	Box Beam End Piece Guide Railing Section	1,858.60	37.68
		Note: Galvanized excludes splices.		
34 71 13 26-0135	EA	Box Beam End Piece Guide Railing Section (Rustic)	2,057.52	37.68
		Note: Excludes splices.		
34 71 13 26-0136	EA	Box Beam Guide Railing End Treatment Section At Driveway, Galvanized	1,750.10	37.68
		Note: Excludes splices.		

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0137 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic).....	1,822.43	37.68
Note: Excludes splices.		
34 71 13 26-0138 EA Box Beam Guiderrail End Assembly.....	52,567.32	1,004.83
Note: Includes all components for the first 14'. Includes energy absorbing terminal, bearing plate, steel breakaway post upper and lower assembly, interior sleeve, box beam, post breaker, cable assembly, end tube rail, end tube tie plate, post 1 and post 2.		
34 71 13 26-0139 Splices For Box Beam Guide Rail (34 71 13 26-0123)		
34 71 13 26-0140 EA Splice For Box Beam Guide Rail	383.12	55.94
34 71 13 26-0141 EA Splice For Box Beam Guide Rail (Rustic)	509.71	55.94
34 71 13 26-0142 Box Beam Guide Rail Posts (34 71 13 26-0123)		
Note: Includes hardware for box beam mounting.		
34 71 13 26-0143 EA Standard Post For Box Beam Guide Rail.....	370.40	60.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	16.21	
34 71 13 26-0144 EA Standard Post (Rustic) for Box Beam Guide Railing.....	388.48	60.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	16.21	
34 71 13 26-0145 EA Extra Long Post For Box Beam Guide Rail.....	406.56	60.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	16.21	
34 71 13 26-0146 EA Extra Long Post (Rustic) For Box Beam Guide Rail	424.65	60.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	16.21	
34 71 13 26-0147 EA Type I End Assembly Post.....	352.31	60.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	16.21	
34 71 13 26-0148 EA Type I End Assembly Post (Rustic)	370.40	60.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	16.21	
34 71 13 26-0149 EA Type II End Assembly Post.....	334.23	60.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	16.21	
34 71 13 26-0150 EA Type II End Assembly Post (Rustic).....	352.31	60.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	16.21	
34 71 13 26-0151 Box Beam Guide Rail Accessories (34 71 13 26-0123)		
34 71 13 26-0152 EA Box Beam Guide Rail End Cover Plate.....	232.08	11.31
34 71 13 26-0153 EA Box Beam Guide Rail End Cover Plate (Rustic)	250.17	11.31
34 71 13 26-0154 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123)		
Note: For existing guide rail.		
34 71 13 26-0155 LF Removal And Storage Of Box Beam Guide Rail And Post	4.96	
34 71 13 26-0156 LF Reset Box Beam Guide Rail	14.49	
34 71 13 26-0157 6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0158 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0157)		
34 71 13 26-0159 Straight Sections, Box Beam Median Barrier (34 71 13 26-0158)		
34 71 13 26-0160 LF Box Beam Median Barrier Galvanized Excludes Splices	188.70	11.31
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0161 LF Box Beam Median Barrier (Rustic) Excludes Splices.....	205.24	11.31
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0162 Shop Curved, Box Beam Median Barrier (34 71 13 26-0158)		
34 71 13 26-0163 LF Shop Curved Box Beam Median Barrier Galvanized	232.16	11.31
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0164 LF Shop Curved Box Beam Median Barrier Rustic.....	286.43	11.31
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0165 Box Beam Median Barrier End Treatment Sections (34 71 13 26-0157)		
Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0166 EA Box Beam Median Barrier Type A End Treatment Section, Galvanized	6,180.58	37.68
Note: Excludes splices and post.		
34 71 13 26-0167 EA Box Beam Median Barrier Type A End Treatment Section (Rustic).....	6,325.25	37.68
Note: Excludes splices and post.		
34 71 13 26-0168 EA Box Beam Median Barrier Type B End Treatment Section, Galvanized	6,180.58	37.68
Note: Excludes splices and post.		



		Transportation	34	34
		Transportation Construction and Equipment	34 70	
		Roadway Construction	34 71	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0169	EA	Box Beam Median Barrier Type B End Treatment Section (Rustic)..... Note: Excludes splices and post.	6,325.25	37.68
34 71 13 26-0170		Splices For Box Beam Median Barrier (34 71 13 26-0157)		
34 71 13 26-0171	EA	Splice for Box Beam Median Barrier.....	438.04	30.14
34 71 13 26-0172	EA	Splice for Box Beam Median Barrier (Rustic)	709.29	30.14
34 71 13 26-0173		Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0157) Note: Includes all associated hardware.		
34 71 13 26-0174	EA	Standard Post for Box Beam Median Barrier	370.40	60.79
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	16.21	
34 71 13 26-0175	EA	Standard Post (Rustic) for Box Beam Median Barrier.....	388.48	60.79
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	16.21	
34 71 13 26-0176	EA	Extra Long Post for Box Beam Median Barrier	406.56	60.79
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	16.21	
34 71 13 26-0177	EA	Extra Long Post (Rustic) for Box Beam Median Barrier.....	424.65	60.79
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	16.21	
34 71 13 26-0178	EA	Type B End Treatment or Rub Back Anchor Post for Box Beam	334.23	60.79
		Note: For median barrier.		
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	16.21	
34 71 13 26-0179	EA	Type B End Treatment or Rub Back Anchor Post (Rustic)	334.23	60.79
		Note: For box beam median barrier.		
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	16.21	
34 71 13 26-0180	EA	Type I End Assembly Post for Box Beam Median Barrier to Concrete	406.56	60.79
		Note: For median barrier transition.		
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	16.21	
34 71 13 26-0181	EA	Type I End Assembly Post (Rustic) for Box Beam Median Barrier	424.65	60.79
		Note: For Concrete median barrier transition.		
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	16.21	
34 71 13 26-0182		Box Beam Median Barrier Accessories (34 71 13 26-0157)		
34 71 13 26-0183	EA	Box Beam Median Barrier End Cover Plate.....	266.24	26.53
34 71 13 26-0184	EA	Box Beam Median Barrier End Cover Plate (Rustic)	284.33	26.53
34 71 13 26-0185		Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0157) Note: For existing guide rail.		
34 71 13 26-0186	LF	Removal And Storage Of Box Beam Median Barrier and Posts	5.13	
34 71 13 26-0187	LF	Reset Box Beam Median Barrier	15.17	
34 71 13 26-0188		Universal Guide Rail Items (34 71 13 26)		
34 71 13 26-0189		Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0188) Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0190	CY	Guide Rail Concrete Anchor Unit.....	869.50	
		For Each Additional Set Of Anchor Rods, Add	38.00	
34 71 13 26-0191	EA	Reset Existing Anchorage Unit for All Types of Guide Rail.....	576.22	
		Note: Includes excavation and backfill.		
34 71 13 26-0192	EA	Removal Of Guide Rail Concrete Anchor Unit.....	662.66	
34 71 13 26-0193		Guide Rail Repair For All Types Of Existing Guide Rail (34 71 13 26-0188) Note: Includes associated hardware.		
34 71 13 26-0194	EA	Straighten And Reset Driven Post For Guide Rail	81.06	
34 71 13 26-0195	EA	Straighten And Reset Post Mounted On Concrete For Guide Rail	107.10	
		Note: With base plate for guide rail. Includes new anchor bolts.		
34 71 13 26-0196		Additional Wood and Steel Posts (34 71 13 26-0188)		
34 71 13 26-0197	LF	4" x 6" Wood Post.....	112.96	20.32
		For Installation In Rock, Add	5.41	
34 71 13 26-0198	LF	6" x 8" Wood Post.....	140.08	20.32
		For Installation In Rock, Add	5.41	
34 71 13 26-0199	LF	6" x 7/8" Galvanized Steel Post.....	78.30	20.32
		For Installation In Rock, Add	5.41	
34 71 13 26-0200	EA	Base Plate With Anchor Bolts For Mounting Post On Concrete	847.35	20.31
34 71 13 26-0201		Accessories For All Types of Guide Rail (34 71 13 26-0188)		

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0202 EA Reflector For Guard Rail.....	112.72	
34 71 13 26-0203 Resilient Guard Fence And Light Shield (34 71 13 26)		
34 71 13 26-0204 LF Resilient Guard Fence And Light Shield, Up To 6' High	93.49	7.70
34 71 13 26-0205 Individual Concrete Guard Rail Posts (34 71 13 26)		
34 71 13 26-0206 EA 6'-5" Concrete Guard Rail Posts, Round.....	95.73	7.70
34 71 13 26-0207 EA 6'-5" Concrete Posts, Square.....	107.08	8.66
34 71 13 26-0208 EA 6'-5" Concrete Posts, Triangular.....	104.27	8.66
34 71 13 26-0209 Guide Rail Transitions (34 71 13 26)		
34 71 13 26-0210 Transition Box Beam Guide Rail To Corrugated Beam (34 71 13 26-0209)		
34 71 13 26-0211 EA Box Beam To Corrugated Beam Rail Bolted Section.....	1,420.63	
34 71 13 26-0212 EA Box Beam To Corrugated Beam Rail Bolted Plate	697.28	
Note: For making cable connections.		
34 71 13 26-0213 Transition Box Beam Median Barrier To Corrugated Beam Median (34 71 13 26-0209)		
34 71 13 26-0214 EA Box Beam Median Barrier To Corrugated Beam Bolted Section	1,456.79	
34 71 13 26-0215 EA Box Beam Median Barrier To Corrugated Beam Harness Plate	697.28	
Note: For making cable connections.		
34 71 13 26-0216 Transition Box Beam Guide Rail To Cable Guide Rail (34 71 13 26-0209)		
34 71 13 26-0217 EA Box Beam to Cable Guide Rail U-bolt And Plate	214.40	20.10
34 71 13 26-0218 Transition Box Beam Median Barrier To Concrete Median Barrier (34 71 13 26-0209)		
34 71 13 26-0219 EA Box Beam Median Barrier To Concrete Barrier End Connection	2,143.97	
34 71 13 26-0220 Transition Thrie Beam To Concrete Median Barrier (34 71 13 26-0209)		
34 71 13 26-0221 EA Thrie Beam Terminal Connector At Concrete Median Barrier.....	1,239.79	
34 71 13 26-0222 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail	1,691.88	
34 71 13 26-0223 Transition Railing (Monterey County) (34 71 13 26)		
Note: Complete with rail, posts, transition and bolts.		
34 71 13 26-0224 EA Transition Railing, Type WB-31 (Monterey County).....	3,465.68	2.52
34 71 16 Impact Attenuating Devices (34 71)		
34 71 16 00-0001 Guard Rail Energy Absorbing Terminals (34 71 16)		
Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. One Bay consists of one Cartridge, one Diaphragm, and two Fender Panels. The Nose section is not considered a Bay, though there is a Cartridge in the Nose of each system. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002 24" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0003 EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	40,895.88	3,991.22
34 71 16 00-0004 EA 24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	56,849.62	5,321.63
34 71 16 00-0005 EA 24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	77,653.02	6,984.63
34 71 16 00-0006 EA 24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	86,101.23	8,647.64
34 71 16 00-0007 30" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0008 EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	43,991.00	4,490.12
34 71 16 00-0009 EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	61,343.82	5,986.83
34 71 16 00-0010 EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	84,247.22	7,982.44
34 71 16 00-0011 EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	96,362.98	9,645.45
34 71 16 00-0012 36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0013 EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	47,123.14	4,989.03
34 71 16 00-0014 EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	65,874.21	6,652.03
34 71 16 00-0015 EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	90,141.09	8,813.95
34 71 16 00-0016 EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	106,586.62	10,643.25
34 71 16 00-0017 69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0018 EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	51,007.53	5,487.93
34 71 16 00-0019 EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	70,697.84	7,317.23
34 71 16 00-0020 EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	97,206.23	9,645.45



		Transportation	34
		Transportation Construction and Equipment	34 70
		Roadway Construction	34 71

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 16 00-0021	EA	69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	114,389.04	11,641.06
34 71 16 00-0022		90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001) Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.		
34 71 16 00-0023	EA	90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	55,001.12	5,986.83
34 71 16 00-0024	EA	90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	75,649.75	7,982.44
34 71 16 00-0025	EA	90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	105,193.42	10,643.25
34 71 16 00-0026	EA	90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	122,416.46	12,638.87
34 71 19		Vehicle Delineators (34 71)		
34 71 19 16		Flexible Vehicle Delineators (34 71 19)		
34 71 19 16-0001	EA	2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	100.86	9.63
34 71 19 16-0002	EA	3' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	102.29	9.63
34 71 19 16-0003	EA	3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator	103.72	9.63
34 71 19 16-0004	EA	4' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	105.15	9.63
34 80		Bridges (34)		
34 82		Bridge Specialties (34 80)		
34 82 23		Bridge Railing (34 82)		
34 82 23 00-0001		Metal Bridge Railing (34 82 23) Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002	LF	2" x 2" x 1/8" Bridge Railing	47.83	4.17
34 82 23 00-0003	LF	3" x 3" x 5/16" Bridge Railing	86.58	6.51
34 82 23 00-0004	LF	5" x 3" x 1/4" Bridge Railing	108.77	9.53
34 82 23 00-0005	LF	6" x 6" x 3/16" Bridge Railing	141.97	11.99
34 82 23 00-0006	LF	5" Outside Diameter x 1/4" Bridge Railing	116.53	9.25
34 82 23 00-0007		Bridge Post (34 82 23) Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008	EA	6" x 9" x 5'-6" Bridge Post	214.14	53.46
34 82 23 00-0009	EA	6" x 9" x 7' Bridge Post	278.70	56.80
34 82 23 00-0010	EA	Two Rail With Base Plate Bridge Post Assembly	680.89	100.24
34 82 23 00-0011	EA	Two Rail With Curb Bridge Post Assembly	856.67	106.91
34 82 23 00-0012	EA	Two Rail (Curbless) Bridge Post Assembly	769.80	106.91
34 82 23 00-0013	EA	Two Rail With Optional Handrail Bridge Post Assembly	954.72	106.91
34 82 23 00-0014	EA	Three Rail With Base Plate Bridge Post Assembly	701.99	106.91
34 82 23 00-0015	EA	Three Rail With Curb Bridge Post Assembly	1,001.35	110.26
34 82 23 00-0016	EA	Three Rail (Curbless) Bridge Post Assembly.....	978.45	110.26
34 82 23 00-0017	EA	Three Rail With Optional Handrail Bridge Post Assembly	1,238.48	110.26
34 82 23 00-0018	EA	Four Rail (Curbless) With Base Plate Bridge Post.....	787.34	113.60
34 82 23 00-0019	EA	Four Rail With Base Plate (Sidewalk Type) Bridge Post.....	787.59	113.60
34 82 23 00-0020	EA	Four Rail With Curb Bridge Post Assembly	1,252.33	113.60
34 82 23 00-0021	EA	Four Rail (Curbless) Bridge Post Assembly.....	1,290.09	113.60
34 82 23 00-0022	EA	Five Rail With Base Plate (Curbless) Bridge Post Assembly.....	883.55	120.28
34 82 23 00-0023		Bridge Railing Splices (34 82 23) Note: Includes hardware for splices.		
34 82 23 00-0024	EA	5" Outside Diameter Bridge Railing Splice.....	396.67	25.74
34 82 23 00-0025	EA	5" x 3" Bridge Railing Splice	226.40	22.52
34 82 23 00-0026	EA	3" x 3" Bridge Railing Splice	136.37	16.09
34 82 23 00-0027	EA	2" x 2" Bridge Railing Splice	64.99	11.58
34 82 23 00-0028	EA	5" x 5" x 3' Expansion Splice Tube	294.15	24.89
34 82 23 00-0029	EA	4" x 2" x 3' Expansion Splice Bar.....	315.37	24.89
34 82 23 00-0030	EA	5" x 5" x 2' Fixed Splice Tube	266.22	24.89
34 82 23 00-0031	EA	4" x 2" x 2' Fixed Splice Bar	273.90	24.89
34 82 23 00-0032	EA	6" x 6" x 3/16" Box x 9' Flare Tube.....	397.15	33.61
34 82 23 00-0033		Transition For Bridge Railing (34 82 23) Note: Includes hardware for transition for bridge railing.		
34 82 23 00-0034	EA	Two Rail Box Beam To Bridge Transition With Splices	1,623.47	133.64
34 82 23 00-0035	EA	Three Rail Box Beam To Bridge Transition With Splices.....	1,730.00	140.33
34 82 23 00-0036	EA	Four Rail Box Beam To Bridge Transition With Splices.....	2,037.62	147.00
34 82 23 00-0037	EA	6" x 6" x 16-1/2' Bottom Transition Tube.....	673.20	66.82
34 82 23 00-0038	EA	6" x 6" x 22' Bottom Transition Tube.....	840.73	73.51
34 82 23 00-0039	EA	8" x 6" x 16-1/2' Bottom Transition Tube.....	798.16	66.82
34 82 23 00-0040	EA	6" x 6" x 16-1/2' Top Transition Tube	691.98	66.82
34 82 23 00-0041	EA	6" x 6" x 21-1/2' Top Transition Tube	825.22	73.51
34 82 23 00-0042	EA	8" x 6" x 16-1/2' Top Transition Tube	821.47	66.82
34 82 23 00-0043	EA	6" x 6" x 16-1/2' Middle Transition Tube	647.45	66.82
34 82 23 00-0044	EA	8" x 6" x 16-1/2' Middle Transition Tube	809.81	66.82

34 Transportation**34 80 Bridges****34 82 Bridge Specialties**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
34 82 23 00-0045		Anchor Plates And End Caps For Bridge Railing (34 82 23)			
34 82 23 00-0046	EA	14" x 14" Bridge Railing Anchor Plate.....	71.98		6.44
34 82 23 00-0047	EA	18" x 22" Deck Anchor Plate.....	442.10		32.17
34 82 23 00-0048	EA	2" x 2" Bridge Railing End Cap.....	60.75		3.22
34 82 23 00-0049	EA	3" x 3" Bridge Railing End Cap.....	36.62		3.22
34 82 23 00-0050	EA	5" O.D Bridge Railing End Cap.....	36.34		3.22
34 82 26		Bridge Slope Protection (34 82)			
34 82 26 00-0001		Bridge Slope Protection (34 82 26)			
		Note: Solid concrete masonry unit installed in sand bedding.			
34 82 26 00-0002	SF	8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection.....	16.41		6.22
34 82 26 00-0003	SF	8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection.....	19.62		6.86
34 82 26 00-0004	SF	8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection.....	21.73		7.28

END OF SECTION 34



Waterway and Marine Construction		35	35
Common Work Results for Waterway and Marine Construction		35 05	
Common Work Results for Dams		35 05 70	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

35 Waterway and Marine Construction
35 05 Common Work Results for Waterway and Marine Construction⁽³⁵⁾

35 05 70 Common Work Results for Dams^(35 05)

35 05 70 00-0001	Rubber Dam Repair ^(35 05 70)		
35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes).....	41.50
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	82.96
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage).....	121.28
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	135.61

END OF SECTION 35

35	35	Waterway and Marine Construction
	35 05	Common Work Results for Waterway and Marine Construction
	35 05 70	Common Work Results for Dams



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

40

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001	Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19) Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4103 for bolts, 40 05 19 00-4118 for gaskets.	
40 05 19 00-0002	Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19 00-0001)	
40 05 19 00-0003	4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)	
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,032.25
	For Class 52 Rating, Deduct	-69.55
	For Class 54 Rating, Add	99.64
	For Class 55 Rating, Add	150.60
	For Class 56 Rating, Add	200.92
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,106.89
	For Class 52 Rating, Deduct	-76.99
	For Class 54 Rating, Add	109.87
	For Class 55 Rating, Add	165.85
	For Class 56 Rating, Add	221.13
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,181.53
	For Class 52 Rating, Deduct	-84.43
	For Class 54 Rating, Add	120.10
	For Class 55 Rating, Add	181.10
	For Class 56 Rating, Add	241.34
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,256.18
	For Class 52 Rating, Deduct	-91.87
	For Class 54 Rating, Add	130.33
	For Class 55 Rating, Add	196.36
	For Class 56 Rating, Add	261.54
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,330.82
	For Class 52 Rating, Deduct	-99.32
	For Class 54 Rating, Add	140.57
	For Class 55 Rating, Add	211.61
	For Class 56 Rating, Add	281.75
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,405.46
	For Class 52 Rating, Deduct	-106.76
	For Class 54 Rating, Add	150.80
	For Class 55 Rating, Add	226.86
	For Class 56 Rating, Add	301.96
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,480.11
	For Class 52 Rating, Deduct	-114.20
	For Class 54 Rating, Add	161.03
	For Class 55 Rating, Add	242.12
	For Class 56 Rating, Add	322.17
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,554.74
	For Class 52 Rating, Deduct	-121.64
	For Class 54 Rating, Add	171.26
	For Class 55 Rating, Add	257.37
	For Class 56 Rating, Add	342.38
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,629.38
	For Class 52 Rating, Deduct	-129.08
	For Class 54 Rating, Add	181.49
	For Class 55 Rating, Add	272.63
	For Class 56 Rating, Add	362.59
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,704.03
	For Class 52 Rating, Deduct	-136.52
	For Class 54 Rating, Add	191.72
	For Class 55 Rating, Add	287.88
	For Class 56 Rating, Add	382.80
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,778.67
	For Class 52 Rating, Deduct	-143.96
	For Class 54 Rating, Add	201.95
	For Class 55 Rating, Add	303.13
	For Class 56 Rating, Add	403.00
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,853.31
	For Class 52 Rating, Deduct	-151.41
	For Class 54 Rating, Add	212.19
	For Class 55 Rating, Add	318.39
	For Class 56 Rating, Add	423.21
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,927.96
	For Class 52 Rating, Deduct	-158.85
	For Class 54 Rating, Add	222.42
	For Class 55 Rating, Add	333.64
	For Class 56 Rating, Add	443.42

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0017 EA 4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,002.60	323.99
For Class 52 Rating, Deduct	-166.29	
For Class 54 Rating, Add	232.65	
For Class 55 Rating, Add	348.89	
For Class 56 Rating, Add	463.63	
40 05 19 00-0018 EA 4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,077.24	328.60
For Class 52 Rating, Deduct	-173.73	
For Class 54 Rating, Add	242.88	
For Class 55 Rating, Add	364.15	
For Class 56 Rating, Add	483.84	
40 05 19 00-0019 EA 4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,151.89	333.21
For Class 52 Rating, Deduct	-181.17	
For Class 54 Rating, Add	253.11	
For Class 55 Rating, Add	379.40	
For Class 56 Rating, Add	504.05	
40 05 19 00-0020 EA 4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,226.53	337.83
For Class 52 Rating, Deduct	-188.61	
For Class 54 Rating, Add	263.34	
For Class 55 Rating, Add	394.66	
For Class 56 Rating, Add	524.25	
40 05 19 00-0021 EA 4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,301.17	342.44
For Class 52 Rating, Deduct	-196.06	
For Class 54 Rating, Add	273.57	
For Class 55 Rating, Add	409.91	
For Class 56 Rating, Add	544.46	
40 05 19 00-0022 EA 4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,375.82	347.05
For Class 52 Rating, Deduct	-203.50	
For Class 54 Rating, Add	283.81	
For Class 55 Rating, Add	425.16	
For Class 56 Rating, Add	564.67	
40 05 19 00-0023 EA 4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,450.45	351.67
For Class 52 Rating, Deduct	-210.94	
For Class 54 Rating, Add	294.04	
For Class 55 Rating, Add	440.42	
For Class 56 Rating, Add	584.88	
40 05 19 00-0024 EA 4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,525.08	356.28
For Class 52 Rating, Deduct	-218.38	
For Class 54 Rating, Add	304.27	
For Class 55 Rating, Add	455.67	
For Class 56 Rating, Add	605.09	
40 05 19 00-0025 EA 4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,599.73	360.91
For Class 52 Rating, Deduct	-225.82	
For Class 54 Rating, Add	314.50	
For Class 55 Rating, Add	470.92	
For Class 56 Rating, Add	625.29	
40 05 19 00-0026 EA 4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,674.37	365.52
For Class 52 Rating, Deduct	-233.26	
For Class 54 Rating, Add	324.73	
For Class 55 Rating, Add	486.18	
For Class 56 Rating, Add	645.50	
40 05 19 00-0027 EA 4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,749.01	370.13
For Class 52 Rating, Deduct	-240.70	
For Class 54 Rating, Add	334.96	
For Class 55 Rating, Add	501.43	
For Class 56 Rating, Add	665.71	
40 05 19 00-0028 EA 4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,823.66	374.75
For Class 52 Rating, Deduct	-248.14	
For Class 54 Rating, Add	345.19	
For Class 55 Rating, Add	516.68	
For Class 56 Rating, Add	685.92	
40 05 19 00-0029 EA 4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,898.30	379.36
For Class 52 Rating, Deduct	-255.59	
For Class 54 Rating, Add	355.42	
For Class 55 Rating, Add	531.94	
For Class 56 Rating, Add	706.13	
40 05 19 00-0030 EA 4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,972.94	383.98
For Class 52 Rating, Deduct	-263.03	
For Class 54 Rating, Add	365.66	
For Class 55 Rating, Add	547.19	
For Class 56 Rating, Add	726.34	
40 05 19 00-0031 EA 4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,047.59	388.59
For Class 52 Rating, Deduct	-270.47	
For Class 54 Rating, Add	375.89	
For Class 55 Rating, Add	562.45	
For Class 56 Rating, Add	746.55	
40 05 19 00-0032 EA 4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,122.23	393.20
For Class 52 Rating, Deduct	-277.91	
For Class 54 Rating, Add	386.12	
For Class 55 Rating, Add	577.70	
For Class 56 Rating, Add	766.75	
40 05 19 00-0033 EA 4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,196.87	397.83
For Class 52 Rating, Deduct	-285.35	
For Class 54 Rating, Add	396.35	
For Class 55 Rating, Add	592.95	
For Class 56 Rating, Add	786.96	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0034	EA		4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,271.52	402.44
			For Class 52 Rating, Deduct	-292.79	
			For Class 54 Rating, Add	406.58	
			For Class 55 Rating, Add	608.21	
			For Class 56 Rating, Add	807.17	
40 05 19 00-0035	EA		4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,346.16	407.05
			For Class 52 Rating, Deduct	-300.24	
			For Class 54 Rating, Add	416.81	
			For Class 55 Rating, Add	623.46	
			For Class 56 Rating, Add	827.38	
40 05 19 00-0036	EA		4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,420.79	411.67
			For Class 52 Rating, Deduct	-307.68	
			For Class 54 Rating, Add	427.04	
			For Class 55 Rating, Add	638.71	
			For Class 56 Rating, Add	847.59	
40 05 19 00-0037	EA		4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,495.44	416.28
			For Class 52 Rating, Deduct	-315.12	
			For Class 54 Rating, Add	437.28	
			For Class 55 Rating, Add	653.97	
			For Class 56 Rating, Add	867.80	
40 05 19 00-0038	EA		4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,570.08	420.90
			For Class 52 Rating, Deduct	-322.56	
			For Class 54 Rating, Add	447.51	
			For Class 55 Rating, Add	669.22	
			For Class 56 Rating, Add	888.00	
40 05 19 00-0039	EA		4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,644.73	425.51
			For Class 52 Rating, Deduct	-330.00	
			For Class 54 Rating, Add	457.74	
			For Class 55 Rating, Add	684.48	
			For Class 56 Rating, Add	908.21	
40 05 19 00-0040	EA		4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,719.37	430.12
			For Class 52 Rating, Deduct	-337.44	
			For Class 54 Rating, Add	467.97	
			For Class 55 Rating, Add	699.73	
			For Class 56 Rating, Add	928.42	
40 05 19 00-0041	EA		4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,794.01	434.75
			For Class 52 Rating, Deduct	-344.88	
			For Class 54 Rating, Add	478.20	
			For Class 55 Rating, Add	714.98	
			For Class 56 Rating, Add	948.63	
40 05 19 00-0042	EA		4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,868.66	439.36
			For Class 52 Rating, Deduct	-352.33	
			For Class 54 Rating, Add	488.43	
			For Class 55 Rating, Add	730.24	
			For Class 56 Rating, Add	968.84	
40 05 19 00-0043			6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0044	EA		6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,307.45	332.29
			For Class 52 Rating, Deduct	-88.44	
			For Class 54 Rating, Add	126.64	
			For Class 55 Rating, Add	191.37	
			For Class 56 Rating, Add	255.30	
40 05 19 00-0045	EA		6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,397.71	336.90
			For Class 52 Rating, Deduct	-97.60	
			For Class 54 Rating, Add	139.21	
			For Class 55 Rating, Add	210.11	
			For Class 56 Rating, Add	280.12	
40 05 19 00-0046	EA		6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,487.97	341.51
			For Class 52 Rating, Deduct	-106.76	
			For Class 54 Rating, Add	151.79	
			For Class 55 Rating, Add	228.84	
			For Class 56 Rating, Add	304.93	
40 05 19 00-0047	EA		6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,578.22	346.14
			For Class 52 Rating, Deduct	-115.92	
			For Class 54 Rating, Add	164.36	
			For Class 55 Rating, Add	247.58	
			For Class 56 Rating, Add	329.74	
40 05 19 00-0048	EA		6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,668.48	350.75
			For Class 52 Rating, Deduct	-125.07	
			For Class 54 Rating, Add	176.93	
			For Class 55 Rating, Add	266.31	
			For Class 56 Rating, Add	354.56	
40 05 19 00-0049	EA		6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,758.73	355.37
			For Class 52 Rating, Deduct	-134.23	
			For Class 54 Rating, Add	189.51	
			For Class 55 Rating, Add	285.05	
			For Class 56 Rating, Add	379.37	
40 05 19 00-0050	EA		6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,848.98	359.98
			For Class 52 Rating, Deduct	-143.39	
			For Class 54 Rating, Add	202.08	
			For Class 55 Rating, Add	303.78	
			For Class 56 Rating, Add	404.19	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0051 EA 6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,939.24	364.59
For Class 52 Rating, Deduct	-152.55	
For Class 54 Rating, Add	214.65	
For Class 55 Rating, Add	322.52	
For Class 56 Rating, Add	429.00	
40 05 19 00-0052 EA 6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,029.49	369.21
For Class 52 Rating, Deduct	-161.71	
For Class 54 Rating, Add	227.22	
For Class 55 Rating, Add	341.25	
For Class 56 Rating, Add	453.81	
40 05 19 00-0053 EA 6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,119.76	373.82
For Class 52 Rating, Deduct	-170.87	
For Class 54 Rating, Add	239.80	
For Class 55 Rating, Add	359.99	
For Class 56 Rating, Add	478.63	
40 05 19 00-0054 EA 6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,210.00	378.44
For Class 52 Rating, Deduct	-180.03	
For Class 54 Rating, Add	252.37	
For Class 55 Rating, Add	378.73	
For Class 56 Rating, Add	503.44	
40 05 19 00-0055 EA 6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,300.25	383.06
For Class 52 Rating, Deduct	-189.19	
For Class 54 Rating, Add	264.95	
For Class 55 Rating, Add	397.46	
For Class 56 Rating, Add	528.26	
40 05 19 00-0056 EA 6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,390.51	387.67
For Class 52 Rating, Deduct	-198.34	
For Class 54 Rating, Add	277.52	
For Class 55 Rating, Add	416.20	
For Class 56 Rating, Add	553.07	
40 05 19 00-0057 EA 6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,480.76	392.29
For Class 52 Rating, Deduct	-207.50	
For Class 54 Rating, Add	290.09	
For Class 55 Rating, Add	434.93	
For Class 56 Rating, Add	577.88	
40 05 19 00-0058 EA 6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,571.01	396.90
For Class 52 Rating, Deduct	-216.66	
For Class 54 Rating, Add	302.66	
For Class 55 Rating, Add	453.66	
For Class 56 Rating, Add	602.70	
40 05 19 00-0059 EA 6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,661.27	401.51
For Class 52 Rating, Deduct	-225.82	
For Class 54 Rating, Add	315.24	
For Class 55 Rating, Add	472.40	
For Class 56 Rating, Add	627.51	
40 05 19 00-0060 EA 6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,751.53	406.13
For Class 52 Rating, Deduct	-234.98	
For Class 54 Rating, Add	327.81	
For Class 55 Rating, Add	491.14	
For Class 56 Rating, Add	652.33	
40 05 19 00-0061 EA 6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,841.78	410.74
For Class 52 Rating, Deduct	-244.14	
For Class 54 Rating, Add	340.38	
For Class 55 Rating, Add	509.87	
For Class 56 Rating, Add	677.14	
40 05 19 00-0062 EA 6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,932.04	415.36
For Class 52 Rating, Deduct	-253.30	
For Class 54 Rating, Add	352.96	
For Class 55 Rating, Add	528.61	
For Class 56 Rating, Add	701.95	
40 05 19 00-0063 EA 6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,022.29	419.98
For Class 52 Rating, Deduct	-262.46	
For Class 54 Rating, Add	365.53	
For Class 55 Rating, Add	547.34	
For Class 56 Rating, Add	726.77	
40 05 19 00-0064 EA 6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,112.54	424.59
For Class 52 Rating, Deduct	-271.61	
For Class 54 Rating, Add	378.10	
For Class 55 Rating, Add	566.08	
For Class 56 Rating, Add	751.58	
40 05 19 00-0065 EA 6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,202.80	429.21
For Class 52 Rating, Deduct	-280.77	
For Class 54 Rating, Add	390.68	
For Class 55 Rating, Add	584.81	
For Class 56 Rating, Add	776.39	
40 05 19 00-0066 EA 6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,293.04	433.82
For Class 52 Rating, Deduct	-289.93	
For Class 54 Rating, Add	403.25	
For Class 55 Rating, Add	603.55	
For Class 56 Rating, Add	801.21	
40 05 19 00-0067 EA 6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,383.30	438.43
For Class 52 Rating, Deduct	-299.09	
For Class 54 Rating, Add	415.82	
For Class 55 Rating, Add	622.28	
For Class 56 Rating, Add	826.02	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0068	EA	6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,473.56	443.05
		For Class 52 Rating, Deduct	-308.25	
		For Class 54 Rating, Add	428.40	
		For Class 55 Rating, Add	641.02	
		For Class 56 Rating, Add	850.84	
40 05 19 00-0069	EA	6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,563.81	447.66
		For Class 52 Rating, Deduct	-317.41	
		For Class 54 Rating, Add	440.97	
		For Class 55 Rating, Add	659.75	
		For Class 56 Rating, Add	875.65	
40 05 19 00-0070	EA	6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,654.06	452.28
		For Class 52 Rating, Deduct	-326.57	
		For Class 54 Rating, Add	453.54	
		For Class 55 Rating, Add	678.49	
		For Class 56 Rating, Add	900.46	
40 05 19 00-0071	EA	6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,744.32	456.90
		For Class 52 Rating, Deduct	-335.73	
		For Class 54 Rating, Add	466.11	
		For Class 55 Rating, Add	697.22	
		For Class 56 Rating, Add	925.28	
40 05 19 00-0072	EA	6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,834.57	461.51
		For Class 52 Rating, Deduct	-344.88	
		For Class 54 Rating, Add	478.69	
		For Class 55 Rating, Add	715.96	
		For Class 56 Rating, Add	950.09	
40 05 19 00-0073	EA	6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,924.83	466.13
		For Class 52 Rating, Deduct	-354.04	
		For Class 54 Rating, Add	491.26	
		For Class 55 Rating, Add	734.69	
		For Class 56 Rating, Add	974.91	
40 05 19 00-0074	EA	6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,015.09	470.74
		For Class 52 Rating, Deduct	-363.20	
		For Class 54 Rating, Add	503.84	
		For Class 55 Rating, Add	753.43	
		For Class 56 Rating, Add	999.72	
40 05 19 00-0075	EA	6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,105.34	475.36
		For Class 52 Rating, Deduct	-372.36	
		For Class 54 Rating, Add	516.41	
		For Class 55 Rating, Add	772.16	
		For Class 56 Rating, Add	1,024.53	
40 05 19 00-0076	EA	6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,195.59	479.97
		For Class 52 Rating, Deduct	-381.52	
		For Class 54 Rating, Add	528.98	
		For Class 55 Rating, Add	790.90	
		For Class 56 Rating, Add	1,049.35	
40 05 19 00-0077	EA	6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,285.85	484.58
		For Class 52 Rating, Deduct	-390.68	
		For Class 54 Rating, Add	541.55	
		For Class 55 Rating, Add	809.63	
		For Class 56 Rating, Add	1,074.16	
40 05 19 00-0078	EA	6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,376.10	489.20
		For Class 52 Rating, Deduct	-399.84	
		For Class 54 Rating, Add	554.13	
		For Class 55 Rating, Add	828.37	
		For Class 56 Rating, Add	1,098.97	
40 05 19 00-0079	EA	6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,466.34	493.82
		For Class 52 Rating, Deduct	-409.00	
		For Class 54 Rating, Add	566.70	
		For Class 55 Rating, Add	847.10	
		For Class 56 Rating, Add	1,123.79	
40 05 19 00-0080	EA	6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,556.61	498.43
		For Class 52 Rating, Deduct	-418.16	
		For Class 54 Rating, Add	579.27	
		For Class 55 Rating, Add	865.84	
		For Class 56 Rating, Add	1,148.60	
40 05 19 00-0081	EA	6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,646.86	503.05
		For Class 52 Rating, Deduct	-427.31	
		For Class 54 Rating, Add	591.85	
		For Class 55 Rating, Add	884.57	
		For Class 56 Rating, Add	1,173.42	
40 05 19 00-0082	EA	6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,737.11	507.66
		For Class 52 Rating, Deduct	-436.47	
		For Class 54 Rating, Add	604.42	
		For Class 55 Rating, Add	903.31	
		For Class 56 Rating, Add	1,198.23	
40 05 19 00-0083		8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0084	EA	8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,827.19	424.59
		For Class 52 Rating, Deduct	-130.23	
		For Class 54 Rating, Add	185.30	
		For Class 55 Rating, Add	279.44	
		For Class 56 Rating, Add	372.40	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0085	EA	8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,948.68	429.21
		For Class 52 Rating, Deduct	-142.82	
		For Class 54 Rating, Add	202.56	
		For Class 55 Rating, Add	305.14	
		For Class 56 Rating, Add	406.43	
40 05 19 00-0086	EA	8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,070.14	433.82
		For Class 52 Rating, Deduct	-155.41	
		For Class 54 Rating, Add	219.81	
		For Class 55 Rating, Add	330.84	
		For Class 56 Rating, Add	440.45	
40 05 19 00-0087	EA	8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,191.62	438.43
		For Class 52 Rating, Deduct	-168.01	
		For Class 54 Rating, Add	237.07	
		For Class 55 Rating, Add	356.54	
		For Class 56 Rating, Add	474.48	
40 05 19 00-0088	EA	8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,313.10	443.05
		For Class 52 Rating, Deduct	-180.60	
		For Class 54 Rating, Add	254.33	
		For Class 55 Rating, Add	382.23	
		For Class 56 Rating, Add	508.50	
40 05 19 00-0089	EA	8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,434.58	447.66
		For Class 52 Rating, Deduct	-193.19	
		For Class 54 Rating, Add	271.58	
		For Class 55 Rating, Add	407.93	
		For Class 56 Rating, Add	542.53	
40 05 19 00-0090	EA	8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,556.05	452.28
		For Class 52 Rating, Deduct	-205.79	
		For Class 54 Rating, Add	288.84	
		For Class 55 Rating, Add	433.63	
		For Class 56 Rating, Add	576.55	
40 05 19 00-0091	EA	8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,677.53	456.90
		For Class 52 Rating, Deduct	-218.38	
		For Class 54 Rating, Add	306.10	
		For Class 55 Rating, Add	459.33	
		For Class 56 Rating, Add	610.57	
40 05 19 00-0092	EA	8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,799.01	461.51
		For Class 52 Rating, Deduct	-230.97	
		For Class 54 Rating, Add	323.35	
		For Class 55 Rating, Add	485.03	
		For Class 56 Rating, Add	644.60	
40 05 19 00-0093	EA	8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,920.48	466.13
		For Class 52 Rating, Deduct	-243.57	
		For Class 54 Rating, Add	340.61	
		For Class 55 Rating, Add	510.72	
		For Class 56 Rating, Add	678.62	
40 05 19 00-0094	EA	8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,041.97	470.74
		For Class 52 Rating, Deduct	-256.16	
		For Class 54 Rating, Add	357.87	
		For Class 55 Rating, Add	536.42	
		For Class 56 Rating, Add	712.65	
40 05 19 00-0095	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,163.44	475.36
		For Class 52 Rating, Deduct	-268.75	
		For Class 54 Rating, Add	375.12	
		For Class 55 Rating, Add	562.12	
		For Class 56 Rating, Add	746.67	
40 05 19 00-0096	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,284.92	479.97
		For Class 52 Rating, Deduct	-281.35	
		For Class 54 Rating, Add	392.38	
		For Class 55 Rating, Add	587.82	
		For Class 56 Rating, Add	780.70	
40 05 19 00-0097	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,406.40	484.58
		For Class 52 Rating, Deduct	-293.94	
		For Class 54 Rating, Add	409.64	
		For Class 55 Rating, Add	613.52	
		For Class 56 Rating, Add	814.72	
40 05 19 00-0098	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,527.88	489.20
		For Class 52 Rating, Deduct	-306.53	
		For Class 54 Rating, Add	426.89	
		For Class 55 Rating, Add	639.21	
		For Class 56 Rating, Add	848.75	
40 05 19 00-0099	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,649.34	493.82
		For Class 52 Rating, Deduct	-319.13	
		For Class 54 Rating, Add	444.15	
		For Class 55 Rating, Add	664.91	
		For Class 56 Rating, Add	882.77	
40 05 19 00-0100	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,770.83	498.43
		For Class 52 Rating, Deduct	-331.72	
		For Class 54 Rating, Add	461.41	
		For Class 55 Rating, Add	690.61	
		For Class 56 Rating, Add	916.80	
40 05 19 00-0101	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,892.30	503.05
		For Class 52 Rating, Deduct	-344.31	
		For Class 54 Rating, Add	478.66	
		For Class 55 Rating, Add	716.31	
		For Class 56 Rating, Add	950.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0102 EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,013.77	507.66
For Class 52 Rating, Deduct	-356.90	
For Class 54 Rating, Add	495.92	
For Class 55 Rating, Add	742.00	
For Class 56 Rating, Add	984.84	
40 05 19 00-0103 EA 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,135.26	512.28
For Class 52 Rating, Deduct	-369.50	
For Class 54 Rating, Add	513.18	
For Class 55 Rating, Add	767.70	
For Class 56 Rating, Add	1,018.87	
40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,256.73	516.89
For Class 52 Rating, Deduct	-382.09	
For Class 54 Rating, Add	530.43	
For Class 55 Rating, Add	793.40	
For Class 56 Rating, Add	1,052.89	
40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,378.21	521.50
For Class 52 Rating, Deduct	-394.69	
For Class 54 Rating, Add	547.69	
For Class 55 Rating, Add	819.10	
For Class 56 Rating, Add	1,086.92	
40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,499.69	526.12
For Class 52 Rating, Deduct	-407.28	
For Class 54 Rating, Add	564.95	
For Class 55 Rating, Add	844.80	
For Class 56 Rating, Add	1,120.94	
40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,621.17	530.74
For Class 52 Rating, Deduct	-419.87	
For Class 54 Rating, Add	582.20	
For Class 55 Rating, Add	870.50	
For Class 56 Rating, Add	1,154.97	
40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,742.64	535.36
For Class 52 Rating, Deduct	-432.47	
For Class 54 Rating, Add	599.46	
For Class 55 Rating, Add	896.19	
For Class 56 Rating, Add	1,188.99	
40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,864.13	539.97
For Class 52 Rating, Deduct	-445.06	
For Class 54 Rating, Add	616.72	
For Class 55 Rating, Add	921.89	
For Class 56 Rating, Add	1,223.02	
40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,985.60	544.58
For Class 52 Rating, Deduct	-457.65	
For Class 54 Rating, Add	633.97	
For Class 55 Rating, Add	947.59	
For Class 56 Rating, Add	1,257.04	
40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,107.06	549.20
For Class 52 Rating, Deduct	-470.24	
For Class 54 Rating, Add	651.23	
For Class 55 Rating, Add	973.28	
For Class 56 Rating, Add	1,291.07	
40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,228.55	553.81
For Class 52 Rating, Deduct	-482.84	
For Class 54 Rating, Add	668.49	
For Class 55 Rating, Add	998.98	
For Class 56 Rating, Add	1,325.09	
40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,350.02	558.42
For Class 52 Rating, Deduct	-495.43	
For Class 54 Rating, Add	685.74	
For Class 55 Rating, Add	1,024.68	
For Class 56 Rating, Add	1,359.12	
40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,471.50	563.05
For Class 52 Rating, Deduct	-508.03	
For Class 54 Rating, Add	703.00	
For Class 55 Rating, Add	1,050.38	
For Class 56 Rating, Add	1,393.14	
40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,592.98	567.66
For Class 52 Rating, Deduct	-520.62	
For Class 54 Rating, Add	720.25	
For Class 55 Rating, Add	1,076.08	
For Class 56 Rating, Add	1,427.17	
40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,714.46	572.28
For Class 52 Rating, Deduct	-533.21	
For Class 54 Rating, Add	737.51	
For Class 55 Rating, Add	1,101.78	
For Class 56 Rating, Add	1,461.19	
40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,835.93	576.89
For Class 52 Rating, Deduct	-545.80	
For Class 54 Rating, Add	754.77	
For Class 55 Rating, Add	1,127.47	
For Class 56 Rating, Add	1,495.22	
40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,957.42	581.50
For Class 52 Rating, Deduct	-558.40	
For Class 54 Rating, Add	772.03	
For Class 55 Rating, Add	1,153.17	
For Class 56 Rating, Add	1,529.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0119	EA		8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,078.89	586.12
			For Class 52 Rating, Deduct	-570.99	
			For Class 54 Rating, Add	789.28	
			For Class 55 Rating, Add	1,178.87	
			For Class 56 Rating, Add	1,563.27	
40 05 19 00-0120	EA		8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,200.36	590.73
			For Class 52 Rating, Deduct	-583.58	
			For Class 54 Rating, Add	806.54	
			For Class 55 Rating, Add	1,204.57	
			For Class 56 Rating, Add	1,597.29	
40 05 19 00-0121	EA		8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,321.85	595.35
			For Class 52 Rating, Deduct	-596.18	
			For Class 54 Rating, Add	823.79	
			For Class 55 Rating, Add	1,230.26	
			For Class 56 Rating, Add	1,631.31	
40 05 19 00-0122	EA		8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,443.32	599.97
			For Class 52 Rating, Deduct	-608.77	
			For Class 54 Rating, Add	841.05	
			For Class 55 Rating, Add	1,255.96	
			For Class 56 Rating, Add	1,665.34	
40 05 19 00-0123 10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe					
			(40 05 19 00-0002)		
40 05 19 00-0124	EA		10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,302.69	516.89
			For Class 52 Rating, Deduct	-167.15	
			For Class 54 Rating, Add	237.33	
			For Class 55 Rating, Add	357.65	
			For Class 56 Rating, Add	476.45	
40 05 19 00-0125	EA		10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,460.59	521.50
			For Class 52 Rating, Deduct	-183.75	
			For Class 54 Rating, Add	260.05	
			For Class 55 Rating, Add	391.47	
			For Class 56 Rating, Add	521.22	
40 05 19 00-0126	EA		10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,618.50	526.12
			For Class 52 Rating, Deduct	-200.35	
			For Class 54 Rating, Add	282.77	
			For Class 55 Rating, Add	425.29	
			For Class 56 Rating, Add	565.99	
40 05 19 00-0127	EA		10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,776.41	530.74
			For Class 52 Rating, Deduct	-216.95	
			For Class 54 Rating, Add	305.49	
			For Class 55 Rating, Add	459.11	
			For Class 56 Rating, Add	610.77	
40 05 19 00-0128	EA		10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,934.31	535.36
			For Class 52 Rating, Deduct	-233.55	
			For Class 54 Rating, Add	328.21	
			For Class 55 Rating, Add	492.93	
			For Class 56 Rating, Add	655.54	
40 05 19 00-0129	EA		10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,092.22	539.97
			For Class 52 Rating, Deduct	-250.15	
			For Class 54 Rating, Add	350.93	
			For Class 55 Rating, Add	526.76	
			For Class 56 Rating, Add	700.31	
40 05 19 00-0130	EA		10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,250.12	544.58
			For Class 52 Rating, Deduct	-266.75	
			For Class 54 Rating, Add	373.65	
			For Class 55 Rating, Add	560.58	
			For Class 56 Rating, Add	745.08	
40 05 19 00-0131	EA		10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,408.01	549.20
			For Class 52 Rating, Deduct	-283.35	
			For Class 54 Rating, Add	396.37	
			For Class 55 Rating, Add	594.40	
			For Class 56 Rating, Add	789.85	
40 05 19 00-0132	EA		10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,565.92	553.81
			For Class 52 Rating, Deduct	-299.95	
			For Class 54 Rating, Add	419.09	
			For Class 55 Rating, Add	628.22	
			For Class 56 Rating, Add	834.62	
40 05 19 00-0133	EA		10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,723.82	558.42
			For Class 52 Rating, Deduct	-316.55	
			For Class 54 Rating, Add	441.81	
			For Class 55 Rating, Add	662.04	
			For Class 56 Rating, Add	879.39	
40 05 19 00-0134	EA		10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,881.72	563.05
			For Class 52 Rating, Deduct	-333.15	
			For Class 54 Rating, Add	464.53	
			For Class 55 Rating, Add	695.86	
			For Class 56 Rating, Add	924.16	
40 05 19 00-0135	EA		10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,039.64	567.66
			For Class 52 Rating, Deduct	-349.75	
			For Class 54 Rating, Add	487.25	
			For Class 55 Rating, Add	729.68	
			For Class 56 Rating, Add	968.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0136	EA	10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	4,197.54	572.28
		For Class 52 Rating, Deduct		-366.35	
		For Class 54 Rating, Add		509.97	
		For Class 55 Rating, Add		763.50	
		For Class 56 Rating, Add		1,013.70	
40 05 19 00-0137	EA	10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	4,355.44	576.89
		For Class 52 Rating, Deduct		-382.95	
		For Class 54 Rating, Add		532.69	
		For Class 55 Rating, Add		797.32	
		For Class 56 Rating, Add		1,058.47	
40 05 19 00-0138	EA	10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	4,513.35	581.50
		For Class 52 Rating, Deduct		-399.55	
		For Class 54 Rating, Add		555.41	
		For Class 55 Rating, Add		831.14	
		For Class 56 Rating, Add		1,103.24	
40 05 19 00-0139	EA	10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	4,671.25	586.12
		For Class 52 Rating, Deduct		-416.15	
		For Class 54 Rating, Add		578.14	
		For Class 55 Rating, Add		864.96	
		For Class 56 Rating, Add		1,148.01	
40 05 19 00-0140	EA	10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	4,829.15	590.73
		For Class 52 Rating, Deduct		-432.75	
		For Class 54 Rating, Add		600.86	
		For Class 55 Rating, Add		898.79	
		For Class 56 Rating, Add		1,192.78	
40 05 19 00-0141	EA	10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	4,987.06	595.35
		For Class 52 Rating, Deduct		-449.35	
		For Class 54 Rating, Add		623.58	
		For Class 55 Rating, Add		932.61	
		For Class 56 Rating, Add		1,237.55	
40 05 19 00-0142	EA	10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,144.97	599.97
		For Class 52 Rating, Deduct		-465.95	
		For Class 54 Rating, Add		646.30	
		For Class 55 Rating, Add		966.43	
		For Class 56 Rating, Add		1,282.32	
40 05 19 00-0143	EA	10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,302.87	604.58
		For Class 52 Rating, Deduct		-482.55	
		For Class 54 Rating, Add		669.02	
		For Class 55 Rating, Add		1,000.25	
		For Class 56 Rating, Add		1,327.09	
40 05 19 00-0144	EA	10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,460.77	609.20
		For Class 52 Rating, Deduct		-499.15	
		For Class 54 Rating, Add		691.74	
		For Class 55 Rating, Add		1,034.07	
		For Class 56 Rating, Add		1,371.86	
40 05 19 00-0145	EA	10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,618.67	613.81
		For Class 52 Rating, Deduct		-515.75	
		For Class 54 Rating, Add		714.46	
		For Class 55 Rating, Add		1,067.89	
		For Class 56 Rating, Add		1,416.64	
40 05 19 00-0146	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,776.58	618.42
		For Class 52 Rating, Deduct		-532.35	
		For Class 54 Rating, Add		737.18	
		For Class 55 Rating, Add		1,101.71	
		For Class 56 Rating, Add		1,461.41	
40 05 19 00-0147	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,934.48	623.04
		For Class 52 Rating, Deduct		-548.95	
		For Class 54 Rating, Add		759.90	
		For Class 55 Rating, Add		1,135.53	
		For Class 56 Rating, Add		1,506.18	
40 05 19 00-0148	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,092.38	627.65
		For Class 52 Rating, Deduct		-565.55	
		For Class 54 Rating, Add		782.62	
		For Class 55 Rating, Add		1,169.35	
		For Class 56 Rating, Add		1,550.95	
40 05 19 00-0149	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,250.30	632.27
		For Class 52 Rating, Deduct		-582.15	
		For Class 54 Rating, Add		805.34	
		For Class 55 Rating, Add		1,203.18	
		For Class 56 Rating, Add		1,595.72	
40 05 19 00-0150	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,408.20	636.89
		For Class 52 Rating, Deduct		-598.75	
		For Class 54 Rating, Add		828.06	
		For Class 55 Rating, Add		1,237.00	
		For Class 56 Rating, Add		1,640.49	
40 05 19 00-0151	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,566.10	641.50
		For Class 52 Rating, Deduct		-615.35	
		For Class 54 Rating, Add		850.78	
		For Class 55 Rating, Add		1,270.82	
		For Class 56 Rating, Add		1,685.26	
40 05 19 00-0152	EA	10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,724.01	646.12
		For Class 52 Rating, Deduct		-631.95	
		For Class 54 Rating, Add		873.50	
		For Class 55 Rating, Add		1,304.64	
		For Class 56 Rating, Add		1,730.03	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,881.91	650.73
		For Class 52 Rating, Deduct	-648.55	
		For Class 54 Rating, Add	896.22	
		For Class 55 Rating, Add	1,338.46	
		For Class 56 Rating, Add	1,774.80	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,039.81	655.35
		For Class 52 Rating, Deduct	-665.15	
		For Class 54 Rating, Add	918.94	
		For Class 55 Rating, Add	1,372.28	
		For Class 56 Rating, Add	1,819.57	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,195.12	659.96
		For Class 52 Rating, Deduct	-681.47	
		For Class 54 Rating, Add	941.27	
		For Class 55 Rating, Add	1,405.52	
		For Class 56 Rating, Add	1,863.57	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,355.61	664.57
		For Class 52 Rating, Deduct	-698.35	
		For Class 54 Rating, Add	964.39	
		For Class 55 Rating, Add	1,439.92	
		For Class 56 Rating, Add	1,909.11	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,513.52	669.19
		For Class 52 Rating, Deduct	-714.96	
		For Class 54 Rating, Add	987.11	
		For Class 55 Rating, Add	1,473.74	
		For Class 56 Rating, Add	1,953.88	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,671.43	673.81
		For Class 52 Rating, Deduct	-731.56	
		For Class 54 Rating, Add	1,009.83	
		For Class 55 Rating, Add	1,507.57	
		For Class 56 Rating, Add	1,998.65	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,829.33	678.42
		For Class 52 Rating, Deduct	-748.16	
		For Class 54 Rating, Add	1,032.55	
		For Class 55 Rating, Add	1,541.39	
		For Class 56 Rating, Add	2,043.42	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,987.23	683.04
		For Class 52 Rating, Deduct	-764.76	
		For Class 54 Rating, Add	1,055.27	
		For Class 55 Rating, Add	1,575.21	
		For Class 56 Rating, Add	2,088.19	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,145.14	687.65
		For Class 52 Rating, Deduct	-781.36	
		For Class 54 Rating, Add	1,077.99	
		For Class 55 Rating, Add	1,609.03	
		For Class 56 Rating, Add	2,132.96	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,303.04	692.27
		For Class 52 Rating, Deduct	-797.96	
		For Class 54 Rating, Add	1,100.71	
		For Class 55 Rating, Add	1,642.85	
		For Class 56 Rating, Add	2,177.73	
40 05 19 00-0163		12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,013.67	646.12
		For Class 52 Rating, Deduct	-223.82	
		For Class 54 Rating, Add	316.95	
		For Class 55 Rating, Add	477.23	
		For Class 56 Rating, Add	635.48	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,210.60	650.73
		For Class 52 Rating, Deduct	-244.71	
		For Class 54 Rating, Add	345.53	
		For Class 55 Rating, Add	519.76	
		For Class 56 Rating, Add	691.76	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,407.53	655.35
		For Class 52 Rating, Deduct	-265.60	
		For Class 54 Rating, Add	374.10	
		For Class 55 Rating, Add	562.28	
		For Class 56 Rating, Add	748.05	
40 05 19 00-0167	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,604.47	659.96
		For Class 52 Rating, Deduct	-286.50	
		For Class 54 Rating, Add	402.68	
		For Class 55 Rating, Add	604.81	
		For Class 56 Rating, Add	804.33	
40 05 19 00-0168	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,801.39	664.57
		For Class 52 Rating, Deduct	-307.39	
		For Class 54 Rating, Add	431.25	
		For Class 55 Rating, Add	647.33	
		For Class 56 Rating, Add	860.62	
40 05 19 00-0169	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,998.32	669.19
		For Class 52 Rating, Deduct	-328.28	
		For Class 54 Rating, Add	459.83	
		For Class 55 Rating, Add	689.86	
		For Class 56 Rating, Add	916.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0170 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,195.26	673.81
For Class 52 Rating, Deduct	-349.18	
For Class 54 Rating, Add	488.40	
For Class 55 Rating, Add	732.38	
For Class 56 Rating, Add	973.18	
40 05 19 00-0171 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,392.19	678.42
For Class 52 Rating, Deduct	-370.07	
For Class 54 Rating, Add	516.98	
For Class 55 Rating, Add	774.90	
For Class 56 Rating, Add	1,029.47	
40 05 19 00-0172 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,589.12	683.04
For Class 52 Rating, Deduct	-390.96	
For Class 54 Rating, Add	545.55	
For Class 55 Rating, Add	817.43	
For Class 56 Rating, Add	1,085.75	
40 05 19 00-0173 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,786.06	687.65
For Class 52 Rating, Deduct	-411.86	
For Class 54 Rating, Add	574.13	
For Class 55 Rating, Add	859.95	
For Class 56 Rating, Add	1,142.04	
40 05 19 00-0174 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,982.99	692.27
For Class 52 Rating, Deduct	-432.75	
For Class 54 Rating, Add	602.70	
For Class 55 Rating, Add	902.48	
For Class 56 Rating, Add	1,198.32	
40 05 19 00-0175 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,179.92	696.88
For Class 52 Rating, Deduct	-453.64	
For Class 54 Rating, Add	631.28	
For Class 55 Rating, Add	945.00	
For Class 56 Rating, Add	1,254.60	
40 05 19 00-0176 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,376.86	701.49
For Class 52 Rating, Deduct	-474.54	
For Class 54 Rating, Add	659.85	
For Class 55 Rating, Add	987.53	
For Class 56 Rating, Add	1,310.89	
40 05 19 00-0177 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,573.79	706.11
For Class 52 Rating, Deduct	-495.43	
For Class 54 Rating, Add	688.43	
For Class 55 Rating, Add	1,030.05	
For Class 56 Rating, Add	1,367.17	
40 05 19 00-0178 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,770.72	710.73
For Class 52 Rating, Deduct	-516.32	
For Class 54 Rating, Add	717.00	
For Class 55 Rating, Add	1,072.58	
For Class 56 Rating, Add	1,423.46	
40 05 19 00-0179 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,967.66	715.35
For Class 52 Rating, Deduct	-537.22	
For Class 54 Rating, Add	745.58	
For Class 55 Rating, Add	1,115.10	
For Class 56 Rating, Add	1,479.74	
40 05 19 00-0180 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,164.59	719.96
For Class 52 Rating, Deduct	-558.11	
For Class 54 Rating, Add	774.15	
For Class 55 Rating, Add	1,157.62	
For Class 56 Rating, Add	1,536.02	
40 05 19 00-0181 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,361.51	724.57
For Class 52 Rating, Deduct	-579.00	
For Class 54 Rating, Add	802.73	
For Class 55 Rating, Add	1,200.15	
For Class 56 Rating, Add	1,592.31	
40 05 19 00-0182 EA 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,558.45	729.19
For Class 52 Rating, Deduct	-599.90	
For Class 54 Rating, Add	831.30	
For Class 55 Rating, Add	1,242.67	
For Class 56 Rating, Add	1,648.59	
40 05 19 00-0183 EA 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,755.38	733.80
For Class 52 Rating, Deduct	-620.79	
For Class 54 Rating, Add	859.88	
For Class 55 Rating, Add	1,285.20	
For Class 56 Rating, Add	1,704.88	
40 05 19 00-0184 EA 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,952.31	738.41
For Class 52 Rating, Deduct	-641.69	
For Class 54 Rating, Add	888.45	
For Class 55 Rating, Add	1,327.72	
For Class 56 Rating, Add	1,761.16	
40 05 19 00-0185 EA 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,149.25	743.03
For Class 52 Rating, Deduct	-662.58	
For Class 54 Rating, Add	917.03	
For Class 55 Rating, Add	1,370.25	
For Class 56 Rating, Add	1,817.44	
40 05 19 00-0186 EA 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,346.18	747.65
For Class 52 Rating, Deduct	-683.47	
For Class 54 Rating, Add	945.60	
For Class 55 Rating, Add	1,412.77	
For Class 56 Rating, Add	1,873.73	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0187 EA 12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,543.12	752.27
For Class 52 Rating, Deduct	-704.37	
For Class 54 Rating, Add	974.18	
For Class 55 Rating, Add	1,455.30	
For Class 56 Rating, Add	1,930.01	
40 05 19 00-0188 EA 12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,740.06	756.88
For Class 52 Rating, Deduct	-725.26	
For Class 54 Rating, Add	1,002.75	
For Class 55 Rating, Add	1,497.82	
For Class 56 Rating, Add	1,986.30	
40 05 19 00-0189 EA 12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,936.99	761.49
For Class 52 Rating, Deduct	-746.15	
For Class 54 Rating, Add	1,031.33	
For Class 55 Rating, Add	1,540.35	
For Class 56 Rating, Add	2,042.58	
40 05 19 00-0190 EA 12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,133.92	766.11
For Class 52 Rating, Deduct	-767.05	
For Class 54 Rating, Add	1,059.90	
For Class 55 Rating, Add	1,582.87	
For Class 56 Rating, Add	2,098.87	
40 05 19 00-0191 EA 12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,330.86	770.72
For Class 52 Rating, Deduct	-787.94	
For Class 54 Rating, Add	1,088.48	
For Class 55 Rating, Add	1,625.40	
For Class 56 Rating, Add	2,155.15	
40 05 19 00-0192 EA 12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,527.79	775.34
For Class 52 Rating, Deduct	-808.83	
For Class 54 Rating, Add	1,117.05	
For Class 55 Rating, Add	1,667.92	
For Class 56 Rating, Add	2,211.44	
40 05 19 00-0193 EA 12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,724.71	779.96
For Class 52 Rating, Deduct	-829.73	
For Class 54 Rating, Add	1,145.63	
For Class 55 Rating, Add	1,710.44	
For Class 56 Rating, Add	2,267.72	
40 05 19 00-0194 EA 12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,921.65	784.57
For Class 52 Rating, Deduct	-850.62	
For Class 54 Rating, Add	1,174.20	
For Class 55 Rating, Add	1,752.97	
For Class 56 Rating, Add	2,324.00	
40 05 19 00-0195 EA 12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,118.58	789.19
For Class 52 Rating, Deduct	-871.51	
For Class 54 Rating, Add	1,202.78	
For Class 55 Rating, Add	1,795.49	
For Class 56 Rating, Add	2,380.29	
40 05 19 00-0196 EA 12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,315.51	793.80
For Class 52 Rating, Deduct	-892.41	
For Class 54 Rating, Add	1,231.35	
For Class 55 Rating, Add	1,838.02	
For Class 56 Rating, Add	2,436.57	
40 05 19 00-0197 EA 12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,512.45	798.41
For Class 52 Rating, Deduct	-913.30	
For Class 54 Rating, Add	1,259.93	
For Class 55 Rating, Add	1,880.54	
For Class 56 Rating, Add	2,492.86	
40 05 19 00-0198 EA 12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,709.38	803.03
For Class 52 Rating, Deduct	-934.19	
For Class 54 Rating, Add	1,288.50	
For Class 55 Rating, Add	1,923.07	
For Class 56 Rating, Add	2,549.14	
40 05 19 00-0199 EA 12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,906.31	807.64
For Class 52 Rating, Deduct	-955.09	
For Class 54 Rating, Add	1,317.08	
For Class 55 Rating, Add	1,965.59	
For Class 56 Rating, Add	2,605.42	
40 05 19 00-0200 EA 12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,103.25	812.26
For Class 52 Rating, Deduct	-975.98	
For Class 54 Rating, Add	1,345.65	
For Class 55 Rating, Add	2,008.12	
For Class 56 Rating, Add	2,661.71	
40 05 19 00-0201 EA 12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,300.18	816.88
For Class 52 Rating, Deduct	-996.87	
For Class 54 Rating, Add	1,374.23	
For Class 55 Rating, Add	2,050.64	
For Class 56 Rating, Add	2,717.99	
40 05 19 00-0202 EA 12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,497.11	821.49
For Class 52 Rating, Deduct	-1,017.77	
For Class 54 Rating, Add	1,402.80	
For Class 55 Rating, Add	2,093.16	
For Class 56 Rating, Add	2,774.28	

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,
Ductile Iron Pipe (40 05 19 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0204 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,023.86	775.34
For Class 52 Rating, Deduct	-313.40	
For Class 54 Rating, Add	441.46	
For Class 55 Rating, Add	663.54	
For Class 56 Rating, Add	882.78	
40 05 19 00-0205 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,262.41	779.96
For Class 52 Rating, Deduct	-338.87	
For Class 54 Rating, Add	476.28	
For Class 55 Rating, Add	715.35	
For Class 56 Rating, Add	951.34	
40 05 19 00-0206 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,500.98	784.57
For Class 52 Rating, Deduct	-364.35	
For Class 54 Rating, Add	511.10	
For Class 55 Rating, Add	767.16	
For Class 56 Rating, Add	1,019.91	
40 05 19 00-0207 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,739.55	789.19
For Class 52 Rating, Deduct	-389.82	
For Class 54 Rating, Add	545.92	
For Class 55 Rating, Add	818.97	
For Class 56 Rating, Add	1,088.47	
40 05 19 00-0208 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,978.11	793.80
For Class 52 Rating, Deduct	-415.29	
For Class 54 Rating, Add	580.74	
For Class 55 Rating, Add	870.78	
For Class 56 Rating, Add	1,157.04	
40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,216.68	798.41
For Class 52 Rating, Deduct	-440.77	
For Class 54 Rating, Add	615.56	
For Class 55 Rating, Add	922.59	
For Class 56 Rating, Add	1,225.60	
40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,455.24	803.03
For Class 52 Rating, Deduct	-466.24	
For Class 54 Rating, Add	650.38	
For Class 55 Rating, Add	974.39	
For Class 56 Rating, Add	1,294.17	
40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,693.80	807.64
For Class 52 Rating, Deduct	-491.71	
For Class 54 Rating, Add	685.20	
For Class 55 Rating, Add	1,026.20	
For Class 56 Rating, Add	1,362.73	
40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,932.37	812.26
For Class 52 Rating, Deduct	-517.18	
For Class 54 Rating, Add	720.02	
For Class 55 Rating, Add	1,078.01	
For Class 56 Rating, Add	1,431.30	
40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,170.93	816.88
For Class 52 Rating, Deduct	-542.66	
For Class 54 Rating, Add	754.84	
For Class 55 Rating, Add	1,129.82	
For Class 56 Rating, Add	1,499.86	
40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,409.49	821.49
For Class 52 Rating, Deduct	-568.13	
For Class 54 Rating, Add	789.66	
For Class 55 Rating, Add	1,181.62	
For Class 56 Rating, Add	1,568.43	
40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,648.06	826.11
For Class 52 Rating, Deduct	-593.60	
For Class 54 Rating, Add	824.48	
For Class 55 Rating, Add	1,233.43	
For Class 56 Rating, Add	1,636.99	
40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,886.62	830.72
For Class 52 Rating, Deduct	-619.07	
For Class 54 Rating, Add	859.30	
For Class 55 Rating, Add	1,285.24	
For Class 56 Rating, Add	1,705.56	
40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,125.18	835.34
For Class 52 Rating, Deduct	-644.55	
For Class 54 Rating, Add	894.12	
For Class 55 Rating, Add	1,337.05	
For Class 56 Rating, Add	1,774.12	
40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,363.74	839.95
For Class 52 Rating, Deduct	-670.02	
For Class 54 Rating, Add	928.94	
For Class 55 Rating, Add	1,388.86	
For Class 56 Rating, Add	1,842.69	
40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,602.31	844.56
For Class 52 Rating, Deduct	-695.49	
For Class 54 Rating, Add	963.76	
For Class 55 Rating, Add	1,440.67	
For Class 56 Rating, Add	1,911.25	
40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,840.87	849.18
For Class 52 Rating, Deduct	-720.97	
For Class 54 Rating, Add	998.58	
For Class 55 Rating, Add	1,492.47	
For Class 56 Rating, Add	1,979.82	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0221 EA 14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,079.44	853.80
For Class 52 Rating, Deduct	-746.44	
For Class 54 Rating, Add	1,033.40	
For Class 55 Rating, Add	1,544.28	
For Class 56 Rating, Add	2,048.38	
40 05 19 00-0222 EA 14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,318.00	858.41
For Class 52 Rating, Deduct	-771.91	
For Class 54 Rating, Add	1,068.21	
For Class 55 Rating, Add	1,596.09	
For Class 56 Rating, Add	2,116.95	
40 05 19 00-0223 EA 14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,556.57	863.03
For Class 52 Rating, Deduct	-797.38	
For Class 54 Rating, Add	1,103.03	
For Class 55 Rating, Add	1,647.90	
For Class 56 Rating, Add	2,185.51	
40 05 19 00-0224 EA 14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,795.13	867.64
For Class 52 Rating, Deduct	-822.86	
For Class 54 Rating, Add	1,137.85	
For Class 55 Rating, Add	1,699.71	
For Class 56 Rating, Add	2,254.08	
40 05 19 00-0225 EA 14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,033.69	872.26
For Class 52 Rating, Deduct	-848.33	
For Class 54 Rating, Add	1,172.67	
For Class 55 Rating, Add	1,751.51	
For Class 56 Rating, Add	2,322.64	
40 05 19 00-0226 EA 14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,272.26	876.87
For Class 52 Rating, Deduct	-873.80	
For Class 54 Rating, Add	1,207.49	
For Class 55 Rating, Add	1,803.32	
For Class 56 Rating, Add	2,391.21	
40 05 19 00-0227 EA 14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,510.82	881.48
For Class 52 Rating, Deduct	-899.28	
For Class 54 Rating, Add	1,242.31	
For Class 55 Rating, Add	1,855.13	
For Class 56 Rating, Add	2,459.77	
40 05 19 00-0228 EA 14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,749.38	886.10
For Class 52 Rating, Deduct	-924.75	
For Class 54 Rating, Add	1,277.13	
For Class 55 Rating, Add	1,906.94	
For Class 56 Rating, Add	2,528.34	
40 05 19 00-0229 EA 14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,987.95	890.72
For Class 52 Rating, Deduct	-950.22	
For Class 54 Rating, Add	1,311.95	
For Class 55 Rating, Add	1,958.75	
For Class 56 Rating, Add	2,596.90	
40 05 19 00-0230 EA 14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,226.51	895.34
For Class 52 Rating, Deduct	-975.69	
For Class 54 Rating, Add	1,346.77	
For Class 55 Rating, Add	2,010.56	
For Class 56 Rating, Add	2,665.47	
40 05 19 00-0231 EA 14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,465.07	899.95
For Class 52 Rating, Deduct	-1,001.17	
For Class 54 Rating, Add	1,381.59	
For Class 55 Rating, Add	2,062.36	
For Class 56 Rating, Add	2,734.04	
40 05 19 00-0232 EA 14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,703.64	904.56
For Class 52 Rating, Deduct	-1,026.64	
For Class 54 Rating, Add	1,416.41	
For Class 55 Rating, Add	2,114.17	
For Class 56 Rating, Add	2,802.60	
40 05 19 00-0233 EA 14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,942.20	909.18
For Class 52 Rating, Deduct	-1,052.11	
For Class 54 Rating, Add	1,451.23	
For Class 55 Rating, Add	2,165.98	
For Class 56 Rating, Add	2,871.17	
40 05 19 00-0234 EA 14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,180.76	913.79
For Class 52 Rating, Deduct	-1,077.59	
For Class 54 Rating, Add	1,486.05	
For Class 55 Rating, Add	2,217.79	
For Class 56 Rating, Add	2,939.73	
40 05 19 00-0235 EA 14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,419.33	918.40
For Class 52 Rating, Deduct	-1,103.06	
For Class 54 Rating, Add	1,520.87	
For Class 55 Rating, Add	2,269.60	
For Class 56 Rating, Add	3,008.30	
40 05 19 00-0236 EA 14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,657.89	923.02
For Class 52 Rating, Deduct	-1,128.53	
For Class 54 Rating, Add	1,555.69	
For Class 55 Rating, Add	2,321.40	
For Class 56 Rating, Add	3,076.86	
40 05 19 00-0237 EA 14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,896.45	927.64
For Class 52 Rating, Deduct	-1,154.00	
For Class 54 Rating, Add	1,590.51	
For Class 55 Rating, Add	2,373.21	
For Class 56 Rating, Add	3,145.43	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0238	EA	14"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,135.02	932.26
			For Class 52 Rating, Deduct	-1,179.48	
			For Class 54 Rating, Add	1,625.33	
			For Class 55 Rating, Add	2,425.02	
			For Class 56 Rating, Add	3,213.99	
40 05 19 00-0239	EA	14"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,373.58	936.87
			For Class 52 Rating, Deduct	-1,204.95	
			For Class 54 Rating, Add	1,660.15	
			For Class 55 Rating, Add	2,476.83	
			For Class 56 Rating, Add	3,282.56	
40 05 19 00-0240	EA	14"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,612.14	941.48
			For Class 52 Rating, Deduct	-1,230.42	
			For Class 54 Rating, Add	1,694.97	
			For Class 55 Rating, Add	2,528.64	
			For Class 56 Rating, Add	3,351.12	
40 05 19 00-0241	EA	14"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,850.71	946.10
			For Class 52 Rating, Deduct	-1,255.89	
			For Class 54 Rating, Add	1,729.78	
			For Class 55 Rating, Add	2,580.44	
			For Class 56 Rating, Add	3,419.69	
40 05 19 00-0242			16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0243	EA	16"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,719.87	886.10
			For Class 52 Rating, Deduct	-371.50	
			For Class 54 Rating, Add	522.70	
			For Class 55 Rating, Add	785.36	
			For Class 56 Rating, Add	1,044.63	
40 05 19 00-0244	EA	16"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,997.47	890.72
			For Class 52 Rating, Deduct	-401.27	
			For Class 54 Rating, Add	563.38	
			For Class 55 Rating, Add	845.87	
			For Class 56 Rating, Add	1,124.71	
40 05 19 00-0245	EA	16"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,275.05	895.34
			For Class 52 Rating, Deduct	-431.03	
			For Class 54 Rating, Add	604.05	
			For Class 55 Rating, Add	906.38	
			For Class 56 Rating, Add	1,204.79	
40 05 19 00-0246	EA	16"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,552.64	899.95
			For Class 52 Rating, Deduct	-460.80	
			For Class 54 Rating, Add	644.73	
			For Class 55 Rating, Add	966.89	
			For Class 56 Rating, Add	1,284.87	
40 05 19 00-0247	EA	16"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,830.24	904.56
			For Class 52 Rating, Deduct	-490.57	
			For Class 54 Rating, Add	685.40	
			For Class 55 Rating, Add	1,027.40	
			For Class 56 Rating, Add	1,364.95	
40 05 19 00-0248	EA	16"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,107.83	909.18
			For Class 52 Rating, Deduct	-520.33	
			For Class 54 Rating, Add	726.07	
			For Class 55 Rating, Add	1,087.92	
			For Class 56 Rating, Add	1,445.03	
40 05 19 00-0249	EA	16"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,385.42	913.79
			For Class 52 Rating, Deduct	-550.10	
			For Class 54 Rating, Add	766.75	
			For Class 55 Rating, Add	1,148.43	
			For Class 56 Rating, Add	1,525.11	
40 05 19 00-0250	EA	16"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,663.02	918.40
			For Class 52 Rating, Deduct	-579.86	
			For Class 54 Rating, Add	807.42	
			For Class 55 Rating, Add	1,208.94	
			For Class 56 Rating, Add	1,605.18	
40 05 19 00-0251	EA	16"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,940.61	923.02
			For Class 52 Rating, Deduct	-609.63	
			For Class 54 Rating, Add	848.10	
			For Class 55 Rating, Add	1,269.45	
			For Class 56 Rating, Add	1,685.26	
40 05 19 00-0252	EA	16"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,218.20	927.64
			For Class 52 Rating, Deduct	-639.40	
			For Class 54 Rating, Add	888.77	
			For Class 55 Rating, Add	1,329.96	
			For Class 56 Rating, Add	1,765.34	
40 05 19 00-0253	EA	16"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,495.80	932.26
			For Class 52 Rating, Deduct	-669.16	
			For Class 54 Rating, Add	929.44	
			For Class 55 Rating, Add	1,390.47	
			For Class 56 Rating, Add	1,845.42	
40 05 19 00-0254	EA	16"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,773.39	936.87
			For Class 52 Rating, Deduct	-698.93	
			For Class 54 Rating, Add	970.12	
			For Class 55 Rating, Add	1,450.99	
			For Class 56 Rating, Add	1,925.50	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0255	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,050.98	941.48
		For Class 52 Rating, Deduct	-728.69	
		For Class 54 Rating, Add	1,010.79	
		For Class 55 Rating, Add	1,511.50	
		For Class 56 Rating, Add	2,005.58	
40 05 19 00-0256	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,328.58	946.10
		For Class 52 Rating, Deduct	-758.46	
		For Class 54 Rating, Add	1,051.47	
		For Class 55 Rating, Add	1,572.01	
		For Class 56 Rating, Add	2,085.66	
40 05 19 00-0257	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,606.17	950.71
		For Class 52 Rating, Deduct	-788.23	
		For Class 54 Rating, Add	1,092.14	
		For Class 55 Rating, Add	1,632.52	
		For Class 56 Rating, Add	2,165.74	
40 05 19 00-0258	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,883.75	955.33
		For Class 52 Rating, Deduct	-817.99	
		For Class 54 Rating, Add	1,132.81	
		For Class 55 Rating, Add	1,693.03	
		For Class 56 Rating, Add	2,245.81	
40 05 19 00-0259	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,161.35	959.94
		For Class 52 Rating, Deduct	-847.76	
		For Class 54 Rating, Add	1,173.49	
		For Class 55 Rating, Add	1,753.54	
		For Class 56 Rating, Add	2,325.89	
40 05 19 00-0260	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,438.94	964.56
		For Class 52 Rating, Deduct	-877.52	
		For Class 54 Rating, Add	1,214.16	
		For Class 55 Rating, Add	1,814.06	
		For Class 56 Rating, Add	2,405.97	
40 05 19 00-0261	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,716.53	969.18
		For Class 52 Rating, Deduct	-907.29	
		For Class 54 Rating, Add	1,254.83	
		For Class 55 Rating, Add	1,874.57	
		For Class 56 Rating, Add	2,486.05	
40 05 19 00-0262	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,994.13	973.79
		For Class 52 Rating, Deduct	-937.06	
		For Class 54 Rating, Add	1,295.51	
		For Class 55 Rating, Add	1,935.08	
		For Class 56 Rating, Add	2,566.13	
40 05 19 00-0263	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,271.72	978.40
		For Class 52 Rating, Deduct	-966.82	
		For Class 54 Rating, Add	1,336.18	
		For Class 55 Rating, Add	1,995.59	
		For Class 56 Rating, Add	2,646.21	
40 05 19 00-0264	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,549.31	983.02
		For Class 52 Rating, Deduct	-996.59	
		For Class 54 Rating, Add	1,376.86	
		For Class 55 Rating, Add	2,056.10	
		For Class 56 Rating, Add	2,726.29	
40 05 19 00-0265	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,826.91	987.63
		For Class 52 Rating, Deduct	-1,026.35	
		For Class 54 Rating, Add	1,417.53	
		For Class 55 Rating, Add	2,116.61	
		For Class 56 Rating, Add	2,806.37	
40 05 19 00-0266	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,104.49	992.25
		For Class 52 Rating, Deduct	-1,056.12	
		For Class 54 Rating, Add	1,458.20	
		For Class 55 Rating, Add	2,177.12	
		For Class 56 Rating, Add	2,886.44	
40 05 19 00-0267	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,382.08	996.86
		For Class 52 Rating, Deduct	-1,085.88	
		For Class 54 Rating, Add	1,498.88	
		For Class 55 Rating, Add	2,237.63	
		For Class 56 Rating, Add	2,966.52	
40 05 19 00-0268	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,659.68	1,001.48
		For Class 52 Rating, Deduct	-1,115.65	
		For Class 54 Rating, Add	1,539.55	
		For Class 55 Rating, Add	2,298.15	
		For Class 56 Rating, Add	3,046.60	
40 05 19 00-0269	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,937.27	1,006.10
		For Class 52 Rating, Deduct	-1,145.42	
		For Class 54 Rating, Add	1,580.22	
		For Class 55 Rating, Add	2,358.66	
		For Class 56 Rating, Add	3,126.68	
40 05 19 00-0270	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,214.85	1,010.71
		For Class 52 Rating, Deduct	-1,175.18	
		For Class 54 Rating, Add	1,620.90	
		For Class 55 Rating, Add	2,419.17	
		For Class 56 Rating, Add	3,206.76	
40 05 19 00-0271	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,492.45	1,015.33
		For Class 52 Rating, Deduct	-1,204.95	
		For Class 54 Rating, Add	1,661.57	
		For Class 55 Rating, Add	2,479.68	
		For Class 56 Rating, Add	3,286.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272	EA	16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,770.04	1,019.94	
		For Class 52 Rating, Deduct	-1,234.71		
		For Class 54 Rating, Add	1,702.25		
		For Class 55 Rating, Add	2,540.19		
		For Class 56 Rating, Add	3,366.91		
40 05 19 00-0273	EA	16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,047.63	1,024.55	
		For Class 52 Rating, Deduct	-1,264.48		
		For Class 54 Rating, Add	1,742.92		
		For Class 55 Rating, Add	2,600.70		
		For Class 56 Rating, Add	3,446.99		
40 05 19 00-0274	EA	16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,325.23	1,029.17	
		For Class 52 Rating, Deduct	-1,294.25		
		For Class 54 Rating, Add	1,783.59		
		For Class 55 Rating, Add	2,661.22		
		For Class 56 Rating, Add	3,527.07		
40 05 19 00-0275	EA	16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,602.82	1,033.78	
		For Class 52 Rating, Deduct	-1,324.01		
		For Class 54 Rating, Add	1,824.27		
		For Class 55 Rating, Add	2,721.73		
		For Class 56 Rating, Add	3,607.15		
40 05 19 00-0276	EA	16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,880.41	1,038.40	
		For Class 52 Rating, Deduct	-1,353.78		
		For Class 54 Rating, Add	1,864.94		
		For Class 55 Rating, Add	2,782.24		
		For Class 56 Rating, Add	3,687.23		
40 05 19 00-0277	EA	16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,158.01	1,043.02	
		For Class 52 Rating, Deduct	-1,383.54		
		For Class 54 Rating, Add	1,905.62		
		For Class 55 Rating, Add	2,842.75		
		For Class 56 Rating, Add	3,767.31		
40 05 19 00-0278	EA	16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,435.60	1,047.63	
		For Class 52 Rating, Deduct	-1,413.31		
		For Class 54 Rating, Add	1,946.29		
		For Class 55 Rating, Add	2,903.26		
		For Class 56 Rating, Add	3,847.39		
40 05 19 00-0279	EA	16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,713.19	1,052.25	
		For Class 52 Rating, Deduct	-1,443.08		
		For Class 54 Rating, Add	1,986.96		
		For Class 55 Rating, Add	2,963.77		
		For Class 56 Rating, Add	3,927.46		
40 05 19 00-0280	EA	16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,990.79	1,056.86	
		For Class 52 Rating, Deduct	-1,472.84		
		For Class 54 Rating, Add	2,027.64		
		For Class 55 Rating, Add	3,024.29		
		For Class 56 Rating, Add	4,007.54		
40 05 19 00-0281		18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)			
40 05 19 00-0282	EA	18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,494.14	998.71	
		For Class 52 Rating, Deduct	-437.90		
		For Class 54 Rating, Add	615.30		
		For Class 55 Rating, Add	924.07		
		For Class 56 Rating, Add	1,228.85		
40 05 19 00-0283	EA	18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,813.36	1,003.33	
		For Class 52 Rating, Deduct	-472.25		
		For Class 54 Rating, Add	662.22		
		For Class 55 Rating, Add	993.86		
		For Class 56 Rating, Add	1,321.21		
40 05 19 00-0284	EA	18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,132.59	1,007.94	
		For Class 52 Rating, Deduct	-506.59		
		For Class 54 Rating, Add	709.14		
		For Class 55 Rating, Add	1,063.66		
		For Class 56 Rating, Add	1,413.57		
40 05 19 00-0285	EA	18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,451.81	1,012.55	
		For Class 52 Rating, Deduct	-540.94		
		For Class 54 Rating, Add	756.05		
		For Class 55 Rating, Add	1,133.45		
		For Class 56 Rating, Add	1,505.93		
40 05 19 00-0286	EA	18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,771.03	1,017.17	
		For Class 52 Rating, Deduct	-575.28		
		For Class 54 Rating, Add	802.97		
		For Class 55 Rating, Add	1,203.25		
		For Class 56 Rating, Add	1,598.29		
40 05 19 00-0287	EA	18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,090.25	1,021.78	
		For Class 52 Rating, Deduct	-609.63		
		For Class 54 Rating, Add	849.89		
		For Class 55 Rating, Add	1,273.04		
		For Class 56 Rating, Add	1,690.65		
40 05 19 00-0288	EA	18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,409.47	1,026.40	
		For Class 52 Rating, Deduct	-643.98		
		For Class 54 Rating, Add	896.81		
		For Class 55 Rating, Add	1,342.84		
		For Class 56 Rating, Add	1,783.01		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0289 EA 18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,728.69	1,031.02
For Class 52 Rating, Deduct	-678.32	
For Class 54 Rating, Add	943.73	
For Class 55 Rating, Add	1,412.63	
For Class 56 Rating, Add	1,875.37	
40 05 19 00-0290 EA 18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,047.92	1,035.63
For Class 52 Rating, Deduct	-712.67	
For Class 54 Rating, Add	990.65	
For Class 55 Rating, Add	1,462.43	
For Class 56 Rating, Add	1,967.73	
40 05 19 00-0291 EA 18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,367.14	1,040.25
For Class 52 Rating, Deduct	-747.01	
For Class 54 Rating, Add	1,037.57	
For Class 55 Rating, Add	1,552.22	
For Class 56 Rating, Add	2,060.09	
40 05 19 00-0292 EA 18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,686.36	1,044.86
For Class 52 Rating, Deduct	-781.36	
For Class 54 Rating, Add	1,084.48	
For Class 55 Rating, Add	1,622.02	
For Class 56 Rating, Add	2,152.45	
40 05 19 00-0293 EA 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,005.59	1,049.48
For Class 52 Rating, Deduct	-815.70	
For Class 54 Rating, Add	1,131.40	
For Class 55 Rating, Add	1,691.81	
For Class 56 Rating, Add	2,244.81	
40 05 19 00-0294 EA 18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,324.81	1,054.09
For Class 52 Rating, Deduct	-850.05	
For Class 54 Rating, Add	1,178.32	
For Class 55 Rating, Add	1,761.61	
For Class 56 Rating, Add	2,337.17	
40 05 19 00-0295 EA 18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,644.03	1,058.70
For Class 52 Rating, Deduct	-884.39	
For Class 54 Rating, Add	1,225.24	
For Class 55 Rating, Add	1,831.40	
For Class 56 Rating, Add	2,429.53	
40 05 19 00-0296 EA 18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,963.26	1,063.33
For Class 52 Rating, Deduct	-918.74	
For Class 54 Rating, Add	1,272.16	
For Class 55 Rating, Add	1,901.20	
For Class 56 Rating, Add	2,521.89	
40 05 19 00-0297 EA 18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,282.48	1,067.94
For Class 52 Rating, Deduct	-953.08	
For Class 54 Rating, Add	1,319.08	
For Class 55 Rating, Add	1,970.99	
For Class 56 Rating, Add	2,614.25	
40 05 19 00-0298 EA 18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,601.70	1,072.55
For Class 52 Rating, Deduct	-987.43	
For Class 54 Rating, Add	1,365.99	
For Class 55 Rating, Add	2,040.79	
For Class 56 Rating, Add	2,706.61	
40 05 19 00-0299 EA 18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,920.93	1,077.17
For Class 52 Rating, Deduct	-1,021.77	
For Class 54 Rating, Add	1,412.91	
For Class 55 Rating, Add	2,110.58	
For Class 56 Rating, Add	2,798.97	
40 05 19 00-0300 EA 18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,240.14	1,081.78
For Class 52 Rating, Deduct	-1,056.12	
For Class 54 Rating, Add	1,459.83	
For Class 55 Rating, Add	2,180.38	
For Class 56 Rating, Add	2,891.32	
40 05 19 00-0301 EA 18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,559.37	1,086.40
For Class 52 Rating, Deduct	-1,090.47	
For Class 54 Rating, Add	1,506.75	
For Class 55 Rating, Add	2,250.18	
For Class 56 Rating, Add	2,983.69	
40 05 19 00-0302 EA 18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,878.60	1,091.01
For Class 52 Rating, Deduct	-1,124.81	
For Class 54 Rating, Add	1,553.67	
For Class 55 Rating, Add	2,319.97	
For Class 56 Rating, Add	3,076.05	
40 05 19 00-0303 EA 18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,197.82	1,095.62
For Class 52 Rating, Deduct	-1,159.16	
For Class 54 Rating, Add	1,600.59	
For Class 55 Rating, Add	2,389.77	
For Class 56 Rating, Add	3,168.41	
40 05 19 00-0304 EA 18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,517.04	1,100.25
For Class 52 Rating, Deduct	-1,193.50	
For Class 54 Rating, Add	1,647.51	
For Class 55 Rating, Add	2,459.56	
For Class 56 Rating, Add	3,260.77	
40 05 19 00-0305 EA 18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,836.27	1,104.86
For Class 52 Rating, Deduct	-1,227.85	
For Class 54 Rating, Add	1,694.42	
For Class 55 Rating, Add	2,529.36	
For Class 56 Rating, Add	3,353.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,155.49	1,109.48
For Class 52 Rating, Deduct	-1,262.19	
For Class 54 Rating, Add	1,741.34	
For Class 55 Rating, Add	2,599.15	
For Class 56 Rating, Add	3,445.49	
40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,474.71	1,114.09
For Class 52 Rating, Deduct	-1,296.54	
For Class 54 Rating, Add	1,788.26	
For Class 55 Rating, Add	2,668.95	
For Class 56 Rating, Add	3,537.84	
40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,793.94	1,118.70
For Class 52 Rating, Deduct	-1,330.88	
For Class 54 Rating, Add	1,835.18	
For Class 55 Rating, Add	2,738.74	
For Class 56 Rating, Add	3,630.20	
40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,113.16	1,123.32
For Class 52 Rating, Deduct	-1,365.23	
For Class 54 Rating, Add	1,882.10	
For Class 55 Rating, Add	2,808.54	
For Class 56 Rating, Add	3,722.56	
40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,432.38	1,127.93
For Class 52 Rating, Deduct	-1,399.57	
For Class 54 Rating, Add	1,929.02	
For Class 55 Rating, Add	2,878.33	
For Class 56 Rating, Add	3,814.92	
40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,751.61	1,132.54
For Class 52 Rating, Deduct	-1,433.92	
For Class 54 Rating, Add	1,975.93	
For Class 55 Rating, Add	2,948.13	
For Class 56 Rating, Add	3,907.28	
40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,070.82	1,137.17
For Class 52 Rating, Deduct	-1,468.26	
For Class 54 Rating, Add	2,022.85	
For Class 55 Rating, Add	3,017.92	
For Class 56 Rating, Add	3,999.64	
40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,390.04	1,141.78
For Class 52 Rating, Deduct	-1,502.61	
For Class 54 Rating, Add	2,069.77	
For Class 55 Rating, Add	3,087.72	
For Class 56 Rating, Add	4,092.00	
40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,709.27	1,146.40
For Class 52 Rating, Deduct	-1,536.95	
For Class 54 Rating, Add	2,116.69	
For Class 55 Rating, Add	3,157.51	
For Class 56 Rating, Add	4,184.36	
40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,028.49	1,151.01
For Class 52 Rating, Deduct	-1,571.30	
For Class 54 Rating, Add	2,163.61	
For Class 55 Rating, Add	3,227.31	
For Class 56 Rating, Add	4,276.72	
40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,347.71	1,155.62
For Class 52 Rating, Deduct	-1,605.64	
For Class 54 Rating, Add	2,210.53	
For Class 55 Rating, Add	3,297.10	
For Class 56 Rating, Add	4,369.08	
40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,666.94	1,160.24
For Class 52 Rating, Deduct	-1,639.99	
For Class 54 Rating, Add	2,257.45	
For Class 55 Rating, Add	3,366.90	
For Class 56 Rating, Add	4,461.44	
40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,986.16	1,164.85
For Class 52 Rating, Deduct	-1,674.34	
For Class 54 Rating, Add	2,304.36	
For Class 55 Rating, Add	3,436.69	
For Class 56 Rating, Add	4,553.80	
40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,305.38	1,169.47
For Class 52 Rating, Deduct	-1,708.68	
For Class 54 Rating, Add	2,351.28	
For Class 55 Rating, Add	3,506.49	
For Class 56 Rating, Add	4,646.16	
40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,434.04	1,139.93
For Class 52 Rating, Deduct	-517.76	
For Class 54 Rating, Add	726.76	
For Class 55 Rating, Add	1,091.08	
For Class 56 Rating, Add	1,450.70	
40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,800.10	1,144.55
For Class 52 Rating, Deduct	-557.25	
For Class 54 Rating, Add	780.70	
For Class 55 Rating, Add	1,171.32	
For Class 56 Rating, Add	1,556.88	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0323	EA	20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,166.16	1,149.17
		For Class 52 Rating, Deduct	-596.75	
		For Class 54 Rating, Add	834.64	
		For Class 55 Rating, Add	1,251.56	
		For Class 56 Rating, Add	1,663.06	
40 05 19 00-0324	EA	20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,532.22	1,153.78
		For Class 52 Rating, Deduct	-636.25	
		For Class 54 Rating, Add	888.59	
		For Class 55 Rating, Add	1,331.80	
		For Class 56 Rating, Add	1,769.23	
40 05 19 00-0325	EA	20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,898.27	1,158.39
		For Class 52 Rating, Deduct	-675.74	
		For Class 54 Rating, Add	942.53	
		For Class 55 Rating, Add	1,412.04	
		For Class 56 Rating, Add	1,875.41	
40 05 19 00-0326	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,264.34	1,163.01
		For Class 52 Rating, Deduct	-715.24	
		For Class 54 Rating, Add	996.48	
		For Class 55 Rating, Add	1,492.28	
		For Class 56 Rating, Add	1,981.59	
40 05 19 00-0327	EA	20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,630.39	1,167.62
		For Class 52 Rating, Deduct	-754.74	
		For Class 54 Rating, Add	1,050.42	
		For Class 55 Rating, Add	1,572.52	
		For Class 56 Rating, Add	2,087.76	
40 05 19 00-0328	EA	20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,996.45	1,172.24
		For Class 52 Rating, Deduct	-794.24	
		For Class 54 Rating, Add	1,104.36	
		For Class 55 Rating, Add	1,652.76	
		For Class 56 Rating, Add	2,193.94	
40 05 19 00-0329	EA	20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,362.51	1,176.85
		For Class 52 Rating, Deduct	-833.73	
		For Class 54 Rating, Add	1,158.31	
		For Class 55 Rating, Add	1,733.00	
		For Class 56 Rating, Add	2,300.11	
40 05 19 00-0330	EA	20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,728.57	1,181.47
		For Class 52 Rating, Deduct	-873.23	
		For Class 54 Rating, Add	1,212.25	
		For Class 55 Rating, Add	1,813.24	
		For Class 56 Rating, Add	2,406.29	
40 05 19 00-0331	EA	20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,094.61	1,186.09
		For Class 52 Rating, Deduct	-912.73	
		For Class 54 Rating, Add	1,266.19	
		For Class 55 Rating, Add	1,893.48	
		For Class 56 Rating, Add	2,512.46	
40 05 19 00-0332	EA	20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,460.68	1,190.70
		For Class 52 Rating, Deduct	-952.22	
		For Class 54 Rating, Add	1,320.14	
		For Class 55 Rating, Add	1,973.72	
		For Class 56 Rating, Add	2,618.64	
40 05 19 00-0333	EA	20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,826.73	1,195.31
		For Class 52 Rating, Deduct	-991.72	
		For Class 54 Rating, Add	1,374.08	
		For Class 55 Rating, Add	2,053.96	
		For Class 56 Rating, Add	2,724.82	
40 05 19 00-0334	EA	20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,192.79	1,199.93
		For Class 52 Rating, Deduct	-1,031.22	
		For Class 54 Rating, Add	1,428.02	
		For Class 55 Rating, Add	2,134.20	
		For Class 56 Rating, Add	2,830.99	
40 05 19 00-0335	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,558.85	1,204.54
		For Class 52 Rating, Deduct	-1,070.72	
		For Class 54 Rating, Add	1,481.97	
		For Class 55 Rating, Add	2,214.43	
		For Class 56 Rating, Add	2,937.17	
40 05 19 00-0336	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,924.91	1,209.16
		For Class 52 Rating, Deduct	-1,110.21	
		For Class 54 Rating, Add	1,535.91	
		For Class 55 Rating, Add	2,294.67	
		For Class 56 Rating, Add	3,043.34	
40 05 19 00-0337	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,290.96	1,213.77
		For Class 52 Rating, Deduct	-1,149.71	
		For Class 54 Rating, Add	1,589.86	
		For Class 55 Rating, Add	2,374.91	
		For Class 56 Rating, Add	3,149.52	
40 05 19 00-0338	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,657.03	1,218.39
		For Class 52 Rating, Deduct	-1,189.21	
		For Class 54 Rating, Add	1,643.80	
		For Class 55 Rating, Add	2,455.15	
		For Class 56 Rating, Add	3,255.70	
40 05 19 00-0339	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,023.08	1,223.01
		For Class 52 Rating, Deduct	-1,228.70	
		For Class 54 Rating, Add	1,697.74	
		For Class 55 Rating, Add	2,535.39	
		For Class 56 Rating, Add	3,361.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0340	EA	20"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,389.14	1,227.62
			For Class 52 Rating, Deduct	-1,268.20	
			For Class 54 Rating, Add	1,751.69	
			For Class 55 Rating, Add	2,615.63	
			For Class 56 Rating, Add	3,468.05	
40 05 19 00-0341	EA	20"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,755.20	1,232.24
			For Class 52 Rating, Deduct	-1,307.70	
			For Class 54 Rating, Add	1,805.63	
			For Class 55 Rating, Add	2,695.87	
			For Class 56 Rating, Add	3,574.22	
40 05 19 00-0342	EA	20"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,121.26	1,236.85
			For Class 52 Rating, Deduct	-1,347.20	
			For Class 54 Rating, Add	1,859.57	
			For Class 55 Rating, Add	2,776.11	
			For Class 56 Rating, Add	3,680.40	
40 05 19 00-0343	EA	20"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,487.30	1,241.46
			For Class 52 Rating, Deduct	-1,386.69	
			For Class 54 Rating, Add	1,913.52	
			For Class 55 Rating, Add	2,856.35	
			For Class 56 Rating, Add	3,786.57	
40 05 19 00-0344	EA	20"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,853.37	1,246.08
			For Class 52 Rating, Deduct	-1,426.19	
			For Class 54 Rating, Add	1,967.46	
			For Class 55 Rating, Add	2,936.59	
			For Class 56 Rating, Add	3,892.75	
40 05 19 00-0345	EA	20"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,219.42	1,250.69
			For Class 52 Rating, Deduct	-1,465.69	
			For Class 54 Rating, Add	2,021.40	
			For Class 55 Rating, Add	3,016.83	
			For Class 56 Rating, Add	3,998.93	
40 05 19 00-0346	EA	20"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,585.48	1,255.31
			For Class 52 Rating, Deduct	-1,505.19	
			For Class 54 Rating, Add	2,075.35	
			For Class 55 Rating, Add	3,097.07	
			For Class 56 Rating, Add	4,105.10	
40 05 19 00-0347	EA	20"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,951.54	1,259.93
			For Class 52 Rating, Deduct	-1,544.68	
			For Class 54 Rating, Add	2,129.29	
			For Class 55 Rating, Add	3,177.31	
			For Class 56 Rating, Add	4,211.28	
40 05 19 00-0348	EA	20"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,317.60	1,264.54
			For Class 52 Rating, Deduct	-1,584.18	
			For Class 54 Rating, Add	2,183.24	
			For Class 55 Rating, Add	3,257.55	
			For Class 56 Rating, Add	4,317.46	
40 05 19 00-0349	EA	20"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,683.65	1,269.16
			For Class 52 Rating, Deduct	-1,623.68	
			For Class 54 Rating, Add	2,237.18	
			For Class 55 Rating, Add	3,337.78	
			For Class 56 Rating, Add	4,423.63	
40 05 19 00-0350	EA	20"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,049.72	1,273.77
			For Class 52 Rating, Deduct	-1,663.17	
			For Class 54 Rating, Add	2,291.12	
			For Class 55 Rating, Add	3,418.03	
			For Class 56 Rating, Add	4,529.81	
40 05 19 00-0351	EA	20"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,415.77	1,278.38
			For Class 52 Rating, Deduct	-1,702.67	
			For Class 54 Rating, Add	2,345.07	
			For Class 55 Rating, Add	3,498.26	
			For Class 56 Rating, Add	4,635.98	
40 05 19 00-0352	EA	20"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,781.83	1,283.00
			For Class 52 Rating, Deduct	-1,742.17	
			For Class 54 Rating, Add	2,399.01	
			For Class 55 Rating, Add	3,578.50	
			For Class 56 Rating, Add	4,742.16	
40 05 19 00-0353	EA	20"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,147.89	1,287.61
			For Class 52 Rating, Deduct	-1,781.66	
			For Class 54 Rating, Add	2,452.95	
			For Class 55 Rating, Add	3,658.74	
			For Class 56 Rating, Add	4,848.33	
40 05 19 00-0354	EA	20"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,513.95	1,292.24
			For Class 52 Rating, Deduct	-1,821.16	
			For Class 54 Rating, Add	2,506.90	
			For Class 55 Rating, Add	3,738.98	
			For Class 56 Rating, Add	4,954.51	
40 05 19 00-0355	EA	20"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,880.00	1,296.85
			For Class 52 Rating, Deduct	-1,860.66	
			For Class 54 Rating, Add	2,560.84	
			For Class 55 Rating, Add	3,819.22	
			For Class 56 Rating, Add	5,060.69	
40 05 19 00-0356	EA	20"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,246.06	1,301.46
			For Class 52 Rating, Deduct	-1,900.16	
			For Class 54 Rating, Add	2,614.79	
			For Class 55 Rating, Add	3,899.46	
			For Class 56 Rating, Add	5,166.86	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0357	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,612.11	1,306.08
		For Class 52 Rating, Deduct	-1,939.65	
		For Class 54 Rating, Add	2,668.73	
		For Class 55 Rating, Add	3,979.70	
		For Class 56 Rating, Add	5,273.04	
40 05 19 00-0358	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,978.17	1,310.69
		For Class 52 Rating, Deduct	-1,979.15	
		For Class 54 Rating, Add	2,722.67	
		For Class 55 Rating, Add	4,059.94	
		For Class 56 Rating, Add	5,379.21	
40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)				
40 05 19 00-0360	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,916.98	1,347.61
		For Class 52 Rating, Deduct	-646.27	
		For Class 54 Rating, Add	905.77	
		For Class 55 Rating, Add	1,359.16	
		For Class 56 Rating, Add	1,806.67	
40 05 19 00-0361	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,368.90	1,352.23
		For Class 52 Rating, Deduct	-695.21	
		For Class 54 Rating, Add	972.60	
		For Class 55 Rating, Add	1,458.55	
		For Class 56 Rating, Add	1,938.18	
40 05 19 00-0362	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,820.81	1,356.84
		For Class 52 Rating, Deduct	-744.15	
		For Class 54 Rating, Add	1,039.42	
		For Class 55 Rating, Add	1,557.93	
		For Class 56 Rating, Add	2,069.68	
40 05 19 00-0363	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,272.73	1,361.46
		For Class 52 Rating, Deduct	-793.09	
		For Class 54 Rating, Add	1,106.24	
		For Class 55 Rating, Add	1,657.32	
		For Class 56 Rating, Add	2,201.19	
40 05 19 00-0364	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,724.66	1,366.08
		For Class 52 Rating, Deduct	-842.03	
		For Class 54 Rating, Add	1,173.07	
		For Class 55 Rating, Add	1,756.71	
		For Class 56 Rating, Add	2,332.69	
40 05 19 00-0365	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,176.58	1,370.69
		For Class 52 Rating, Deduct	-890.98	
		For Class 54 Rating, Add	1,239.89	
		For Class 55 Rating, Add	1,856.09	
		For Class 56 Rating, Add	2,464.20	
40 05 19 00-0366	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,628.50	1,375.30
		For Class 52 Rating, Deduct	-939.92	
		For Class 54 Rating, Add	1,306.71	
		For Class 55 Rating, Add	1,955.48	
		For Class 56 Rating, Add	2,595.71	
40 05 19 00-0367	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,080.42	1,379.92
		For Class 52 Rating, Deduct	-988.86	
		For Class 54 Rating, Add	1,373.53	
		For Class 55 Rating, Add	2,054.87	
		For Class 56 Rating, Add	2,727.21	
40 05 19 00-0368	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,532.34	1,384.53
		For Class 52 Rating, Deduct	-1,037.80	
		For Class 54 Rating, Add	1,440.36	
		For Class 55 Rating, Add	2,154.25	
		For Class 56 Rating, Add	2,888.72	
40 05 19 00-0369	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,984.26	1,389.15
		For Class 52 Rating, Deduct	-1,086.74	
		For Class 54 Rating, Add	1,507.18	
		For Class 55 Rating, Add	2,253.64	
		For Class 56 Rating, Add	2,990.22	
40 05 19 00-0370	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,436.19	1,393.76
		For Class 52 Rating, Deduct	-1,135.69	
		For Class 54 Rating, Add	1,574.00	
		For Class 55 Rating, Add	2,353.03	
		For Class 56 Rating, Add	3,121.73	
40 05 19 00-0371	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,888.11	1,398.38
		For Class 52 Rating, Deduct	-1,184.63	
		For Class 54 Rating, Add	1,640.83	
		For Class 55 Rating, Add	2,452.42	
		For Class 56 Rating, Add	3,253.23	
40 05 19 00-0372	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,340.03	1,403.00
		For Class 52 Rating, Deduct	-1,233.57	
		For Class 54 Rating, Add	1,707.65	
		For Class 55 Rating, Add	2,551.80	
		For Class 56 Rating, Add	3,384.74	
40 05 19 00-0373	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,791.95	1,407.61
		For Class 52 Rating, Deduct	-1,282.51	
		For Class 54 Rating, Add	1,774.47	
		For Class 55 Rating, Add	2,651.19	
		For Class 56 Rating, Add	3,516.24	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0374	EA	24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,243.87	1,412.23
		For Class 52 Rating, Deduct	-1,331.45	
		For Class 54 Rating, Add	1,841.30	
		For Class 55 Rating, Add	2,750.57	
		For Class 56 Rating, Add	3,647.75	
40 05 19 00-0375	EA	24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,695.78	1,416.84
		For Class 52 Rating, Deduct	-1,380.40	
		For Class 54 Rating, Add	1,908.12	
		For Class 55 Rating, Add	2,849.96	
		For Class 56 Rating, Add	3,779.25	
40 05 19 00-0376	EA	24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,147.71	1,421.45
		For Class 52 Rating, Deduct	-1,429.34	
		For Class 54 Rating, Add	1,974.94	
		For Class 55 Rating, Add	2,949.35	
		For Class 56 Rating, Add	3,910.76	
40 05 19 00-0377	EA	24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,599.63	1,426.07
		For Class 52 Rating, Deduct	-1,478.28	
		For Class 54 Rating, Add	2,041.77	
		For Class 55 Rating, Add	3,048.74	
		For Class 56 Rating, Add	4,042.27	
40 05 19 00-0378	EA	24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,051.55	1,430.68
		For Class 52 Rating, Deduct	-1,527.22	
		For Class 54 Rating, Add	2,108.59	
		For Class 55 Rating, Add	3,148.12	
		For Class 56 Rating, Add	4,173.77	
40 05 19 00-0379	EA	24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,503.47	1,435.30
		For Class 52 Rating, Deduct	-1,576.16	
		For Class 54 Rating, Add	2,175.41	
		For Class 55 Rating, Add	3,247.51	
		For Class 56 Rating, Add	4,305.28	
40 05 19 00-0380	EA	24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,955.39	1,439.92
		For Class 52 Rating, Deduct	-1,625.11	
		For Class 54 Rating, Add	2,242.24	
		For Class 55 Rating, Add	3,346.90	
		For Class 56 Rating, Add	4,436.78	
40 05 19 00-0381	EA	24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,407.31	1,444.53
		For Class 52 Rating, Deduct	-1,674.05	
		For Class 54 Rating, Add	2,309.06	
		For Class 55 Rating, Add	3,446.28	
		For Class 56 Rating, Add	4,568.29	
40 05 19 00-0382	EA	24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,859.24	1,449.15
		For Class 52 Rating, Deduct	-1,722.99	
		For Class 54 Rating, Add	2,375.88	
		For Class 55 Rating, Add	3,545.67	
		For Class 56 Rating, Add	4,699.79	
40 05 19 00-0383	EA	24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,311.16	1,453.76
		For Class 52 Rating, Deduct	-1,771.93	
		For Class 54 Rating, Add	2,442.71	
		For Class 55 Rating, Add	3,645.06	
		For Class 56 Rating, Add	4,831.30	
40 05 19 00-0384	EA	24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,763.08	1,458.37
		For Class 52 Rating, Deduct	-1,820.88	
		For Class 54 Rating, Add	2,509.53	
		For Class 55 Rating, Add	3,744.44	
		For Class 56 Rating, Add	4,962.81	
40 05 19 00-0385	EA	24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,215.00	1,462.99
		For Class 52 Rating, Deduct	-1,869.82	
		For Class 54 Rating, Add	2,576.35	
		For Class 55 Rating, Add	3,843.83	
		For Class 56 Rating, Add	5,094.31	
40 05 19 00-0386	EA	24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,666.92	1,467.60
		For Class 52 Rating, Deduct	-1,918.76	
		For Class 54 Rating, Add	2,643.17	
		For Class 55 Rating, Add	3,943.22	
		For Class 56 Rating, Add	5,225.82	
40 05 19 00-0387	EA	24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,118.83	1,472.23
		For Class 52 Rating, Deduct	-1,967.70	
		For Class 54 Rating, Add	2,710.00	
		For Class 55 Rating, Add	4,042.60	
		For Class 56 Rating, Add	5,357.32	
40 05 19 00-0388	EA	24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,570.76	1,476.84
		For Class 52 Rating, Deduct	-2,016.64	
		For Class 54 Rating, Add	2,776.82	
		For Class 55 Rating, Add	4,141.99	
		For Class 56 Rating, Add	5,488.83	
40 05 19 00-0389	EA	24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,141.56	1,559.91
		For Class 52 Rating, Deduct	-2,065.59	
		For Class 54 Rating, Add	2,845.07	
		For Class 55 Rating, Add	4,244.23	
		For Class 56 Rating, Add	5,624.61	
40 05 19 00-0390	EA	24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,593.47	1,564.52
		For Class 52 Rating, Deduct	-2,114.53	
		For Class 54 Rating, Add	2,911.89	
		For Class 55 Rating, Add	4,343.62	
		For Class 56 Rating, Add	5,756.12	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0391 EA 24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,045.39	1,569.14
For Class 52 Rating, Deduct	-2,163.47	
For Class 54 Rating, Add	2,978.72	
For Class 55 Rating, Add	4,443.00	
For Class 56 Rating, Add	5,887.62	
40 05 19 00-0392 EA 24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,497.32	1,573.75
For Class 52 Rating, Deduct	-2,212.41	
For Class 54 Rating, Add	3,045.54	
For Class 55 Rating, Add	4,542.39	
For Class 56 Rating, Add	6,019.13	
40 05 19 00-0393 EA 24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,949.24	1,578.37
For Class 52 Rating, Deduct	-2,261.35	
For Class 54 Rating, Add	3,112.36	
For Class 55 Rating, Add	4,641.78	
For Class 56 Rating, Add	6,150.64	
40 05 19 00-0394 EA 24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,401.16	1,582.99
For Class 52 Rating, Deduct	-2,310.30	
For Class 54 Rating, Add	3,179.19	
For Class 55 Rating, Add	4,741.17	
For Class 56 Rating, Add	6,282.14	
40 05 19 00-0395 EA 24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,853.08	1,587.60
For Class 52 Rating, Deduct	-2,359.24	
For Class 54 Rating, Add	3,246.01	
For Class 55 Rating, Add	4,840.55	
For Class 56 Rating, Add	6,413.65	
40 05 19 00-0396 EA 24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,304.99	1,592.22
For Class 52 Rating, Deduct	-2,408.18	
For Class 54 Rating, Add	3,312.83	
For Class 55 Rating, Add	4,939.94	
For Class 56 Rating, Add	6,545.15	
40 05 19 00-0397 EA 24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,756.92	1,596.83
For Class 52 Rating, Deduct	-2,457.12	
For Class 54 Rating, Add	3,379.66	
For Class 55 Rating, Add	5,039.32	
For Class 56 Rating, Add	6,676.66	

40 05 19 00-0398 30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-0002)

40 05 19 00-0399 EA 30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,221.84	1,901.42
For Class 52 Rating, Deduct	-1,027.50	
For Class 54 Rating, Add	1,435.70	
For Class 55 Rating, Add	2,152.16	
For Class 56 Rating, Add	2,859.28	
40 05 19 00-0400 EA 30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,871.51	1,906.05
For Class 52 Rating, Deduct	-1,098.19	
For Class 54 Rating, Add	1,532.19	
For Class 55 Rating, Add	2,295.65	
For Class 56 Rating, Add	3,049.12	
40 05 19 00-0401 EA 30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,521.18	1,910.66
For Class 52 Rating, Deduct	-1,168.89	
For Class 54 Rating, Add	1,628.68	
For Class 55 Rating, Add	2,439.13	
For Class 56 Rating, Add	3,238.96	
40 05 19 00-0402 EA 30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,170.85	1,915.27
For Class 52 Rating, Deduct	-1,239.58	
For Class 54 Rating, Add	1,725.16	
For Class 55 Rating, Add	2,582.62	
For Class 56 Rating, Add	3,428.80	
40 05 19 00-0403 EA 30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,820.51	1,919.89
For Class 52 Rating, Deduct	-1,310.27	
For Class 54 Rating, Add	1,821.65	
For Class 55 Rating, Add	2,726.10	
For Class 56 Rating, Add	3,618.64	
40 05 19 00-0404 EA 30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,470.18	1,924.50
For Class 52 Rating, Deduct	-1,380.97	
For Class 54 Rating, Add	1,918.13	
For Class 55 Rating, Add	2,869.58	
For Class 56 Rating, Add	3,808.48	
40 05 19 00-0405 EA 30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,119.85	1,929.12
For Class 52 Rating, Deduct	-1,451.66	
For Class 54 Rating, Add	2,014.62	
For Class 55 Rating, Add	3,013.07	
For Class 56 Rating, Add	3,998.32	
40 05 19 00-0406 EA 30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,769.50	1,933.73
For Class 52 Rating, Deduct	-1,522.36	
For Class 54 Rating, Add	2,111.10	
For Class 55 Rating, Add	3,156.55	
For Class 56 Rating, Add	4,188.16	
40 05 19 00-0407 EA 30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,419.18	1,938.34
For Class 52 Rating, Deduct	-1,593.05	
For Class 54 Rating, Add	2,207.59	
For Class 55 Rating, Add	3,300.04	
For Class 56 Rating, Add	4,378.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0408	EA	30"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,068.84	1,942.97
			For Class 52 Rating, Deduct	-1,663.75	
			For Class 54 Rating, Add	2,304.07	
			For Class 55 Rating, Add	3,443.52	
			For Class 56 Rating, Add	4,567.84	
40 05 19 00-0409	EA	30"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,718.51	1,947.58
			For Class 52 Rating, Deduct	-1,734.44	
			For Class 54 Rating, Add	2,400.56	
			For Class 55 Rating, Add	3,587.00	
			For Class 56 Rating, Add	4,757.69	
40 05 19 00-0410	EA	30"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,368.18	1,952.19
			For Class 52 Rating, Deduct	-1,805.13	
			For Class 54 Rating, Add	2,497.04	
			For Class 55 Rating, Add	3,730.49	
			For Class 56 Rating, Add	4,947.52	
40 05 19 00-0411	EA	30"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,017.84	1,956.81
			For Class 52 Rating, Deduct	-1,875.83	
			For Class 54 Rating, Add	2,593.53	
			For Class 55 Rating, Add	3,873.97	
			For Class 56 Rating, Add	5,137.36	
40 05 19 00-0412	EA	30"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,667.51	1,961.42
			For Class 52 Rating, Deduct	-1,946.52	
			For Class 54 Rating, Add	2,690.01	
			For Class 55 Rating, Add	4,017.46	
			For Class 56 Rating, Add	5,327.21	
40 05 19 00-0413	EA	30"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,317.18	1,966.04
			For Class 52 Rating, Deduct	-2,017.22	
			For Class 54 Rating, Add	2,786.50	
			For Class 55 Rating, Add	4,160.94	
			For Class 56 Rating, Add	5,517.05	
40 05 19 00-0414	EA	30"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,966.85	1,970.65
			For Class 52 Rating, Deduct	-2,087.91	
			For Class 54 Rating, Add	2,882.98	
			For Class 55 Rating, Add	4,304.43	
			For Class 56 Rating, Add	5,706.89	
40 05 19 00-0415	EA	30"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,616.51	1,975.26
			For Class 52 Rating, Deduct	-2,158.60	
			For Class 54 Rating, Add	2,979.47	
			For Class 55 Rating, Add	4,447.91	
			For Class 56 Rating, Add	5,896.73	
40 05 19 00-0416	EA	30"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,266.18	1,979.89
			For Class 52 Rating, Deduct	-2,229.30	
			For Class 54 Rating, Add	3,075.95	
			For Class 55 Rating, Add	4,591.39	
			For Class 56 Rating, Add	6,086.57	
40 05 19 00-0417	EA	30"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,915.85	1,984.50
			For Class 52 Rating, Deduct	-2,299.99	
			For Class 54 Rating, Add	3,172.44	
			For Class 55 Rating, Add	4,734.88	
			For Class 56 Rating, Add	6,276.41	
40 05 19 00-0418	EA	30"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,565.51	1,989.12
			For Class 52 Rating, Deduct	-2,370.69	
			For Class 54 Rating, Add	3,268.92	
			For Class 55 Rating, Add	4,878.36	
			For Class 56 Rating, Add	6,466.25	
40 05 19 00-0419	EA	30"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,215.18	1,993.73
			For Class 52 Rating, Deduct	-2,441.38	
			For Class 54 Rating, Add	3,365.41	
			For Class 55 Rating, Add	5,021.85	
			For Class 56 Rating, Add	6,656.09	
40 05 19 00-0420	EA	30"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,864.84	1,998.34
			For Class 52 Rating, Deduct	-2,512.08	
			For Class 54 Rating, Add	3,461.89	
			For Class 55 Rating, Add	5,165.33	
			For Class 56 Rating, Add	6,845.93	
40 05 19 00-0421	EA	30"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,514.51	2,002.96
			For Class 52 Rating, Deduct	-2,582.77	
			For Class 54 Rating, Add	3,558.38	
			For Class 55 Rating, Add	5,308.81	
			For Class 56 Rating, Add	7,035.77	
40 05 19 00-0422	EA	30"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,164.18	2,007.57
			For Class 52 Rating, Deduct	-2,653.46	
			For Class 54 Rating, Add	3,654.86	
			For Class 55 Rating, Add	5,452.30	
			For Class 56 Rating, Add	7,225.61	
40 05 19 00-0423	EA	30"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,813.24	2,012.18
			For Class 52 Rating, Deduct	-2,723.87	
			For Class 54 Rating, Add	3,750.96	
			For Class 55 Rating, Add	5,595.20	
			For Class 56 Rating, Add	7,414.68	
40 05 19 00-0424	EA	30"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,463.51	2,016.81
			For Class 52 Rating, Deduct	-2,794.85	
			For Class 54 Rating, Add	3,847.83	
			For Class 55 Rating, Add	5,739.27	
			For Class 56 Rating, Add	7,605.29	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0425	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,113.18	2,021.42
		For Class 52 Rating, Deduct	-2,865.55	
		For Class 54 Rating, Add	3,944.32	
		For Class 55 Rating, Add	5,882.75	
		For Class 56 Rating, Add	7,795.13	
40 05 19 00-0426	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,762.85	2,026.04
		For Class 52 Rating, Deduct	-2,936.24	
		For Class 54 Rating, Add	4,040.80	
		For Class 55 Rating, Add	6,026.24	
		For Class 56 Rating, Add	7,984.98	
40 05 19 00-0427	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,412.51	2,030.65
		For Class 52 Rating, Deduct	-3,006.93	
		For Class 54 Rating, Add	4,137.29	
		For Class 55 Rating, Add	6,169.72	
		For Class 56 Rating, Add	8,174.81	
40 05 19 00-0428	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,062.19	2,035.26
		For Class 52 Rating, Deduct	-3,077.63	
		For Class 54 Rating, Add	4,233.77	
		For Class 55 Rating, Add	6,313.20	
		For Class 56 Rating, Add	8,364.66	
40 05 19 00-0429	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,711.85	2,039.88
		For Class 52 Rating, Deduct	-3,148.32	
		For Class 54 Rating, Add	4,330.26	
		For Class 55 Rating, Add	6,456.69	
		For Class 56 Rating, Add	8,554.50	
40 05 19 00-0430	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,361.51	2,044.49
		For Class 52 Rating, Deduct	-3,219.02	
		For Class 54 Rating, Add	4,426.74	
		For Class 55 Rating, Add	6,600.17	
		For Class 56 Rating, Add	8,744.34	
40 05 19 00-0431	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,011.18	2,049.11
		For Class 52 Rating, Deduct	-3,289.71	
		For Class 54 Rating, Add	4,523.23	
		For Class 55 Rating, Add	6,743.66	
		For Class 56 Rating, Add	8,934.18	
40 05 19 00-0432	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,660.84	2,053.73
		For Class 52 Rating, Deduct	-3,360.41	
		For Class 54 Rating, Add	4,619.71	
		For Class 55 Rating, Add	6,887.14	
		For Class 56 Rating, Add	9,124.02	
40 05 19 00-0433	EA	30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,310.51	2,058.34
		For Class 52 Rating, Deduct	-3,431.10	
		For Class 54 Rating, Add	4,716.20	
		For Class 55 Rating, Add	7,030.62	
		For Class 56 Rating, Add	9,313.86	
40 05 19 00-0434	EA	30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,960.18	2,062.96
		For Class 52 Rating, Deduct	-3,501.79	
		For Class 54 Rating, Add	4,812.68	
		For Class 55 Rating, Add	7,174.11	
		For Class 56 Rating, Add	9,503.70	
40 05 19 00-0435	EA	30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,609.85	2,067.57
		For Class 52 Rating, Deduct	-3,572.49	
		For Class 54 Rating, Add	4,909.17	
		For Class 55 Rating, Add	7,317.59	
		For Class 56 Rating, Add	9,693.54	
40 05 19 00-0436	EA	30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,259.51	2,072.18
		For Class 52 Rating, Deduct	-3,643.18	
		For Class 54 Rating, Add	5,005.65	
		For Class 55 Rating, Add	7,461.08	
		For Class 56 Rating, Add	9,883.38	
40 05 19 00-0437		36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0438	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,016.19	2,409.09
		For Class 52 Rating, Deduct	-1,470.27	
		For Class 54 Rating, Add	2,048.71	
		For Class 55 Rating, Add	3,068.23	
		For Class 56 Rating, Add	4,074.39	
40 05 19 00-0439	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,897.44	2,413.71
		For Class 52 Rating, Deduct	-1,566.43	
		For Class 54 Rating, Add	2,179.93	
		For Class 55 Rating, Add	3,263.36	
		For Class 56 Rating, Add	4,332.55	
40 05 19 00-0440	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,778.67	2,418.32
		For Class 52 Rating, Deduct	-1,662.60	
		For Class 54 Rating, Add	2,311.15	
		For Class 55 Rating, Add	3,458.48	
		For Class 56 Rating, Add	4,590.70	
40 05 19 00-0441	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,659.91	2,422.94
		For Class 52 Rating, Deduct	-1,758.77	
		For Class 54 Rating, Add	2,442.37	
		For Class 55 Rating, Add	3,653.61	
		For Class 56 Rating, Add	4,848.86	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0442	EA	36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,541.15	2,427.55
		For Class 52 Rating, Deduct	-1,854.93	
		For Class 54 Rating, Add	2,573.59	
		For Class 55 Rating, Add	3,848.73	
		For Class 56 Rating, Add	5,107.01	
40 05 19 00-0443	EA	36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,422.39	2,432.16
		For Class 52 Rating, Deduct	-1,951.10	
		For Class 54 Rating, Add	2,704.81	
		For Class 55 Rating, Add	4,043.66	
		For Class 56 Rating, Add	5,365.16	
40 05 19 00-0444	EA	36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,303.62	2,436.78
		For Class 52 Rating, Deduct	-2,047.27	
		For Class 54 Rating, Add	2,836.03	
		For Class 55 Rating, Add	4,238.98	
		For Class 56 Rating, Add	5,623.32	
40 05 19 00-0445	EA	36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,184.87	2,441.39
		For Class 52 Rating, Deduct	-2,143.44	
		For Class 54 Rating, Add	2,967.26	
		For Class 55 Rating, Add	4,434.11	
		For Class 56 Rating, Add	5,881.47	
40 05 19 00-0446	EA	36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,066.10	2,446.01
		For Class 52 Rating, Deduct	-2,239.60	
		For Class 54 Rating, Add	3,098.48	
		For Class 55 Rating, Add	4,629.23	
		For Class 56 Rating, Add	6,139.62	
40 05 19 00-0447	EA	36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,947.34	2,450.63
		For Class 52 Rating, Deduct	-2,335.77	
		For Class 54 Rating, Add	3,229.70	
		For Class 55 Rating, Add	4,824.36	
		For Class 56 Rating, Add	6,397.78	
40 05 19 00-0448	EA	36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,828.57	2,455.24
		For Class 52 Rating, Deduct	-2,431.94	
		For Class 54 Rating, Add	3,360.92	
		For Class 55 Rating, Add	5,019.48	
		For Class 56 Rating, Add	6,655.93	
40 05 19 00-0449	EA	36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,709.81	2,459.86
		For Class 52 Rating, Deduct	-2,528.10	
		For Class 54 Rating, Add	3,492.14	
		For Class 55 Rating, Add	5,214.60	
		For Class 56 Rating, Add	6,914.09	
40 05 19 00-0450	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,591.04	2,464.47
		For Class 52 Rating, Deduct	-2,624.27	
		For Class 54 Rating, Add	3,623.36	
		For Class 55 Rating, Add	5,409.73	
		For Class 56 Rating, Add	7,172.24	
40 05 19 00-0451	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,472.29	2,469.09
		For Class 52 Rating, Deduct	-2,720.44	
		For Class 54 Rating, Add	3,754.58	
		For Class 55 Rating, Add	5,604.85	
		For Class 56 Rating, Add	7,430.40	
40 05 19 00-0452	EA	36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,353.52	2,473.70
		For Class 52 Rating, Deduct	-2,816.60	
		For Class 54 Rating, Add	3,885.80	
		For Class 55 Rating, Add	5,799.98	
		For Class 56 Rating, Add	7,688.55	
40 05 19 00-0453	EA	36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,234.76	2,478.31
		For Class 52 Rating, Deduct	-2,912.77	
		For Class 54 Rating, Add	4,017.02	
		For Class 55 Rating, Add	5,995.10	
		For Class 56 Rating, Add	7,946.70	
40 05 19 00-0454	EA	36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,116.00	2,482.93
		For Class 52 Rating, Deduct	-3,008.94	
		For Class 54 Rating, Add	4,148.24	
		For Class 55 Rating, Add	6,190.23	
		For Class 56 Rating, Add	8,204.86	
40 05 19 00-0455	EA	36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,997.24	2,487.55
		For Class 52 Rating, Deduct	-3,105.11	
		For Class 54 Rating, Add	4,279.46	
		For Class 55 Rating, Add	6,385.35	
		For Class 56 Rating, Add	8,463.01	
40 05 19 00-0456	EA	36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,878.48	2,492.16
		For Class 52 Rating, Deduct	-3,201.27	
		For Class 54 Rating, Add	4,410.68	
		For Class 55 Rating, Add	6,580.48	
		For Class 56 Rating, Add	8,721.17	
40 05 19 00-0457	EA	36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,759.72	2,496.78
		For Class 52 Rating, Deduct	-3,297.44	
		For Class 54 Rating, Add	4,541.90	
		For Class 55 Rating, Add	6,775.60	
		For Class 56 Rating, Add	8,979.32	
40 05 19 00-0458	EA	36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,640.96	2,501.39
		For Class 52 Rating, Deduct	-3,393.61	
		For Class 54 Rating, Add	4,673.13	
		For Class 55 Rating, Add	6,970.73	
		For Class 56 Rating, Add	9,237.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0459	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,522.19	2,506.01
		For Class 52 Rating, Deduct	-3,489.77	
		For Class 54 Rating, Add	4,804.35	
		For Class 55 Rating, Add	7,165.85	
		For Class 56 Rating, Add	9,495.63	
40 05 19 00-0460	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,403.43	2,510.62
		For Class 52 Rating, Deduct	-3,585.94	
		For Class 54 Rating, Add	4,935.57	
		For Class 55 Rating, Add	7,360.97	
		For Class 56 Rating, Add	9,753.78	
40 05 19 00-0461	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,284.66	2,515.23
		For Class 52 Rating, Deduct	-3,682.11	
		For Class 54 Rating, Add	5,066.79	
		For Class 55 Rating, Add	7,556.10	
		For Class 56 Rating, Add	10,011.94	
40 05 19 00-0462	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,165.90	2,519.85
		For Class 52 Rating, Deduct	-3,778.27	
		For Class 54 Rating, Add	5,198.01	
		For Class 55 Rating, Add	7,751.22	
		For Class 56 Rating, Add	10,270.09	
40 05 19 00-0463	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,047.14	2,524.47
		For Class 52 Rating, Deduct	-3,874.44	
		For Class 54 Rating, Add	5,329.23	
		For Class 55 Rating, Add	7,946.35	
		For Class 56 Rating, Add	10,528.24	
40 05 19 00-0464	EA	36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,928.38	2,529.08
		For Class 52 Rating, Deduct	-3,970.61	
		For Class 54 Rating, Add	5,460.45	
		For Class 55 Rating, Add	8,141.47	
		For Class 56 Rating, Add	10,786.40	
40 05 19 00-0465	EA	36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,809.61	2,533.70
		For Class 52 Rating, Deduct	-4,066.77	
		For Class 54 Rating, Add	5,591.67	
		For Class 55 Rating, Add	8,336.60	
		For Class 56 Rating, Add	11,044.55	
40 05 19 00-0466	EA	36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,690.86	2,538.31
		For Class 52 Rating, Deduct	-4,162.94	
		For Class 54 Rating, Add	5,722.89	
		For Class 55 Rating, Add	8,531.72	
		For Class 56 Rating, Add	11,302.71	
40 05 19 00-0467	EA	36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,572.09	2,542.93
		For Class 52 Rating, Deduct	-4,259.11	
		For Class 54 Rating, Add	5,854.11	
		For Class 55 Rating, Add	8,726.84	
		For Class 56 Rating, Add	11,560.86	
40 05 19 00-0468	EA	36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,453.33	2,547.54
		For Class 52 Rating, Deduct	-4,355.28	
		For Class 54 Rating, Add	5,985.33	
		For Class 55 Rating, Add	8,921.97	
		For Class 56 Rating, Add	11,819.02	
40 05 19 00-0469	EA	36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,334.57	2,552.15
		For Class 52 Rating, Deduct	-4,451.44	
		For Class 54 Rating, Add	6,116.55	
		For Class 55 Rating, Add	9,117.09	
		For Class 56 Rating, Add	12,077.17	
40 05 19 00-0470	EA	36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,215.81	2,556.77
		For Class 52 Rating, Deduct	-4,547.61	
		For Class 54 Rating, Add	6,247.77	
		For Class 55 Rating, Add	9,312.22	
		For Class 56 Rating, Add	12,335.32	
40 05 19 00-0471	EA	36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,097.04	2,561.39
		For Class 52 Rating, Deduct	-4,643.78	
		For Class 54 Rating, Add	6,378.99	
		For Class 55 Rating, Add	9,507.34	
		For Class 56 Rating, Add	12,593.48	
40 05 19 00-0472	EA	36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,978.29	2,566.01
		For Class 52 Rating, Deduct	-4,739.94	
		For Class 54 Rating, Add	6,510.21	
		For Class 55 Rating, Add	9,702.47	
		For Class 56 Rating, Add	12,851.63	
40 05 19 00-0473	EA	36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,859.51	2,570.62
		For Class 52 Rating, Deduct	-4,836.11	
		For Class 54 Rating, Add	6,641.43	
		For Class 55 Rating, Add	9,897.59	
		For Class 56 Rating, Add	13,109.78	
40 05 19 00-0474	EA	36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,740.75	2,575.23
		For Class 52 Rating, Deduct	-4,932.28	
		For Class 54 Rating, Add	6,772.66	
		For Class 55 Rating, Add	10,092.72	
		For Class 56 Rating, Add	13,367.94	
40 05 19 00-0475	EA	36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,621.99	2,579.85
		For Class 52 Rating, Deduct	-5,028.44	
		For Class 54 Rating, Add	6,903.88	
		For Class 55 Rating, Add	10,287.84	
		For Class 56 Rating, Add	13,626.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0476 42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0477 EA 42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,432.08	3,036.75
For Class 52 Rating, Deduct	-1,961.41	
For Class 54 Rating, Add	2,729.86	
For Class 55 Rating, Add	4,086.73	
For Class 56 Rating, Add	5,425.77	
40 05 19 00-0478 EA 42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,745.24	3,041.36
For Class 52 Rating, Deduct	-2,105.08	
For Class 54 Rating, Add	2,925.87	
For Class 55 Rating, Add	4,378.17	
For Class 56 Rating, Add	5,811.34	
40 05 19 00-0479 EA 42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,042.78	3,045.98
For Class 52 Rating, Deduct	-2,247.04	
For Class 54 Rating, Add	3,119.53	
For Class 55 Rating, Add	4,666.13	
For Class 56 Rating, Add	6,192.31	
40 05 19 00-0480 EA 42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,353.34	3,050.59
For Class 52 Rating, Deduct	-2,390.44	
For Class 54 Rating, Add	3,315.15	
For Class 55 Rating, Add	4,957.00	
For Class 56 Rating, Add	6,577.11	
40 05 19 00-0481 EA 42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,650.89	3,055.20
For Class 52 Rating, Deduct	-2,532.40	
For Class 54 Rating, Add	3,508.82	
For Class 55 Rating, Add	5,244.96	
For Class 56 Rating, Add	6,958.08	
40 05 19 00-0482 EA 42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,964.04	3,059.82
For Class 52 Rating, Deduct	-2,676.07	
For Class 54 Rating, Add	3,704.83	
For Class 55 Rating, Add	5,536.40	
For Class 56 Rating, Add	7,343.64	
40 05 19 00-0483 EA 42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,258.98	3,064.43
For Class 52 Rating, Deduct	-2,817.75	
For Class 54 Rating, Add	3,898.10	
For Class 55 Rating, Add	5,823.78	
For Class 56 Rating, Add	7,723.84	
40 05 19 00-0484 EA 42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,572.15	3,069.05
For Class 52 Rating, Deduct	-2,961.43	
For Class 54 Rating, Add	4,094.11	
For Class 55 Rating, Add	6,115.22	
For Class 56 Rating, Add	8,109.41	
40 05 19 00-0485 EA 42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,869.69	3,073.67
For Class 52 Rating, Deduct	-3,103.39	
For Class 54 Rating, Add	4,287.78	
For Class 55 Rating, Add	6,403.18	
For Class 56 Rating, Add	8,490.38	
40 05 19 00-0486 EA 42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,180.25	3,078.28
For Class 52 Rating, Deduct	-3,246.78	
For Class 54 Rating, Add	4,483.40	
For Class 55 Rating, Add	6,694.05	
For Class 56 Rating, Add	8,875.18	
40 05 19 00-0487 EA 42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,477.79	3,082.90
For Class 52 Rating, Deduct	-3,388.74	
For Class 54 Rating, Add	4,677.06	
For Class 55 Rating, Add	6,982.01	
For Class 56 Rating, Add	9,256.14	
40 05 19 00-0488 EA 42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,788.33	3,087.51
For Class 52 Rating, Deduct	-3,532.13	
For Class 54 Rating, Add	4,872.68	
For Class 55 Rating, Add	7,272.87	
For Class 56 Rating, Add	9,640.94	
40 05 19 00-0489 EA 42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,085.89	3,092.12
For Class 52 Rating, Deduct	-3,674.09	
For Class 54 Rating, Add	5,066.35	
For Class 55 Rating, Add	7,560.83	
For Class 56 Rating, Add	10,021.91	
40 05 19 00-0490 EA 42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,386.03	3,096.74
For Class 52 Rating, Deduct	-3,816.34	
For Class 54 Rating, Add	5,260.40	
For Class 55 Rating, Add	7,849.37	
For Class 56 Rating, Add	10,403.64	
40 05 19 00-0491 EA 42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,693.98	3,101.35
For Class 52 Rating, Deduct	-3,959.45	
For Class 54 Rating, Add	5,455.63	
For Class 55 Rating, Add	8,139.65	
For Class 56 Rating, Add	10,787.68	
40 05 19 00-0492 EA 42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,991.53	3,105.98
For Class 52 Rating, Deduct	-4,101.41	
For Class 54 Rating, Add	5,649.30	
For Class 55 Rating, Add	8,427.61	
For Class 56 Rating, Add	11,168.64	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0493 EA 42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,304.69	3,110.59
For Class 52 Rating, Deduct	-4,245.08	
For Class 54 Rating, Add	5,845.31	
For Class 55 Rating, Add	8,719.06	
For Class 56 Rating, Add	11,554.21	
40 05 19 00-0494 EA 42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,602.23	3,115.20
For Class 52 Rating, Deduct	-4,387.05	
For Class 54 Rating, Add	6,038.97	
For Class 55 Rating, Add	9,007.02	
For Class 56 Rating, Add	11,935.18	
40 05 19 00-0495 EA 42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,912.79	3,119.82
For Class 52 Rating, Deduct	-4,530.44	
For Class 54 Rating, Add	6,234.59	
For Class 55 Rating, Add	9,297.88	
For Class 56 Rating, Add	12,319.98	
40 05 19 00-0496 EA 42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,210.33	3,124.43
For Class 52 Rating, Deduct	-4,672.40	
For Class 54 Rating, Add	6,428.26	
For Class 55 Rating, Add	9,585.84	
For Class 56 Rating, Add	12,700.94	
40 05 19 00-0497 EA 42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,523.49	3,129.04
For Class 52 Rating, Deduct	-4,816.08	
For Class 54 Rating, Add	6,624.27	
For Class 55 Rating, Add	9,877.28	
For Class 56 Rating, Add	13,086.52	
40 05 19 00-0498 EA 42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,821.04	3,133.66
For Class 52 Rating, Deduct	-4,958.04	
For Class 54 Rating, Add	6,817.93	
For Class 55 Rating, Add	10,165.24	
For Class 56 Rating, Add	13,467.48	
40 05 19 00-0499 EA 42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,131.59	3,138.27
For Class 52 Rating, Deduct	-5,101.43	
For Class 54 Rating, Add	7,013.55	
For Class 55 Rating, Add	10,456.11	
For Class 56 Rating, Add	13,852.28	
40 05 19 00-0500 EA 42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,429.13	3,142.90
For Class 52 Rating, Deduct	-5,243.39	
For Class 54 Rating, Add	7,207.22	
For Class 55 Rating, Add	10,744.07	
For Class 56 Rating, Add	14,233.25	
40 05 19 00-0501 EA 42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,742.29	3,147.51
For Class 52 Rating, Deduct	-5,387.07	
For Class 54 Rating, Add	7,403.23	
For Class 55 Rating, Add	11,035.51	
For Class 56 Rating, Add	14,618.82	
40 05 19 00-0502 EA 42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,039.83	3,152.12
For Class 52 Rating, Deduct	-5,529.03	
For Class 54 Rating, Add	7,596.89	
For Class 55 Rating, Add	11,323.47	
For Class 56 Rating, Add	14,999.78	
40 05 19 00-0503 EA 42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,347.78	3,156.74
For Class 52 Rating, Deduct	-5,672.13	
For Class 54 Rating, Add	7,792.12	
For Class 55 Rating, Add	11,613.75	
For Class 56 Rating, Add	15,383.82	
40 05 19 00-0504 EA 42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,647.93	3,161.35
For Class 52 Rating, Deduct	-5,814.38	
For Class 54 Rating, Add	7,986.18	
For Class 55 Rating, Add	11,902.29	
For Class 56 Rating, Add	15,765.55	
40 05 19 00-0505 EA 42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,685.29	3,165.97
For Class 52 Rating, Deduct	-5,927.72	
For Class 54 Rating, Add	8,140.82	
For Class 55 Rating, Add	12,132.23	
For Class 56 Rating, Add	16,069.76	
40 05 19 00-0506 EA 42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,256.03	3,170.58
For Class 52 Rating, Deduct	-6,099.73	
For Class 54 Rating, Add	8,375.46	
For Class 55 Rating, Add	12,481.12	
For Class 56 Rating, Add	16,531.32	
40 05 19 00-0507 EA 42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,553.58	3,175.20
For Class 52 Rating, Deduct	-6,241.69	
For Class 54 Rating, Add	8,569.13	
For Class 55 Rating, Add	12,769.08	
For Class 56 Rating, Add	16,912.28	
40 05 19 00-0508 EA 42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,864.13	3,179.82
For Class 52 Rating, Deduct	-6,385.09	
For Class 54 Rating, Add	8,764.75	
For Class 55 Rating, Add	13,059.94	
For Class 56 Rating, Add	17,297.08	
40 05 19 00-0509 EA 42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	64,161.68	3,184.43
For Class 52 Rating, Deduct	-6,527.05	
For Class 54 Rating, Add	8,958.42	
For Class 55 Rating, Add	13,347.90	
For Class 56 Rating, Add	17,678.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0510	EA		42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,474.84	3,189.04
			For Class 52 Rating, Deduct	-6,670.72	
			For Class 54 Rating, Add	9,154.43	
			For Class 55 Rating, Add	13,639.34	
			For Class 56 Rating, Add	18,063.62	
40 05 19 00-0511	EA		42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,769.78	3,193.66
			For Class 52 Rating, Deduct	-6,812.40	
			For Class 54 Rating, Add	9,347.70	
			For Class 55 Rating, Add	13,926.72	
			For Class 56 Rating, Add	18,443.82	
40 05 19 00-0512	EA		42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,082.93	3,198.27
			For Class 52 Rating, Deduct	-6,956.08	
			For Class 54 Rating, Add	9,543.71	
			For Class 55 Rating, Add	14,218.17	
			For Class 56 Rating, Add	18,829.38	
40 05 19 00-0513	EA		42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	69,380.48	3,202.89
			For Class 52 Rating, Deduct	-7,098.04	
			For Class 54 Rating, Add	9,737.38	
			For Class 55 Rating, Add	14,506.13	
			For Class 56 Rating, Add	19,210.35	
40 05 19 00-0514	EA		42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,691.03	3,207.50
			For Class 52 Rating, Deduct	-7,241.43	
			For Class 54 Rating, Add	9,933.00	
			For Class 55 Rating, Add	14,796.99	
			For Class 56 Rating, Add	19,595.15	
40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)					
40 05 19 00-0516	EA		48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,138.58	3,816.70
			For Class 52 Rating, Deduct	-2,459.13	
			For Class 54 Rating, Add	3,422.75	
			For Class 55 Rating, Add	5,124.11	
			For Class 56 Rating, Add	6,803.12	
40 05 19 00-0517	EA		48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,047.57	3,821.31
			For Class 52 Rating, Deduct	-2,668.35	
			For Class 54 Rating, Add	3,708.13	
			For Class 55 Rating, Add	5,548.42	
			For Class 56 Rating, Add	7,364.46	
40 05 19 00-0518	EA		48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,953.97	3,825.92
			For Class 52 Rating, Deduct	-2,877.28	
			For Class 54 Rating, Add	3,993.13	
			For Class 55 Rating, Add	5,972.16	
			For Class 56 Rating, Add	7,925.03	
40 05 19 00-0519	EA		48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,875.97	3,830.55
			For Class 52 Rating, Deduct	-3,087.93	
			For Class 54 Rating, Add	4,280.46	
			For Class 55 Rating, Add	6,399.37	
			For Class 56 Rating, Add	8,490.21	
40 05 19 00-0520	EA		48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,784.97	3,835.16
			For Class 52 Rating, Deduct	-3,297.15	
			For Class 54 Rating, Add	4,565.85	
			For Class 55 Rating, Add	6,823.69	
			For Class 56 Rating, Add	9,051.56	
40 05 19 00-0521	EA		48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,693.96	3,839.78
			For Class 52 Rating, Deduct	-3,506.37	
			For Class 54 Rating, Add	4,851.23	
			For Class 55 Rating, Add	7,248.00	
			For Class 56 Rating, Add	9,612.90	
40 05 19 00-0522	EA		48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,613.36	3,844.39
			For Class 52 Rating, Deduct	-3,716.74	
			For Class 54 Rating, Add	5,138.18	
			For Class 55 Rating, Add	7,674.64	
			For Class 56 Rating, Add	10,177.31	
40 05 19 00-0523	EA		48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,524.96	3,849.00
			For Class 52 Rating, Deduct	-3,926.25	
			For Class 54 Rating, Add	5,423.95	
			For Class 55 Rating, Add	8,099.53	
			For Class 56 Rating, Add	10,739.42	
40 05 19 00-0524	EA		48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,431.36	3,853.62
			For Class 52 Rating, Deduct	-4,135.18	
			For Class 54 Rating, Add	5,708.95	
			For Class 55 Rating, Add	8,523.27	
			For Class 56 Rating, Add	11,300.00	
40 05 19 00-0525	EA		48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,353.36	3,858.23
			For Class 52 Rating, Deduct	-4,345.83	
			For Class 54 Rating, Add	5,996.28	
			For Class 55 Rating, Add	8,950.48	
			For Class 56 Rating, Add	11,865.18	
40 05 19 00-0526	EA		48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,262.36	3,862.85
			For Class 52 Rating, Deduct	-4,555.05	
			For Class 54 Rating, Add	6,281.67	
			For Class 55 Rating, Add	9,374.80	
			For Class 56 Rating, Add	12,426.52	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0527 EA 48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,184.37	3,867.47
For Class 52 Rating, Deduct	-4,765.70	
For Class 54 Rating, Add	6,569.00	
For Class 55 Rating, Add	9,802.01	
For Class 56 Rating, Add	12,991.70	
40 05 19 00-0528 EA 48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,090.76	3,872.08
For Class 52 Rating, Deduct	-4,974.64	
For Class 54 Rating, Add	6,854.00	
For Class 55 Rating, Add	10,225.75	
For Class 56 Rating, Add	13,552.28	
40 05 19 00-0529 EA 48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,999.76	3,876.70
For Class 52 Rating, Deduct	-5,183.86	
For Class 54 Rating, Add	7,139.38	
For Class 55 Rating, Add	10,650.06	
For Class 56 Rating, Add	14,113.62	
40 05 19 00-0530 EA 48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,921.77	3,881.31
For Class 52 Rating, Deduct	-5,394.51	
For Class 54 Rating, Add	7,426.72	
For Class 55 Rating, Add	11,077.28	
For Class 56 Rating, Add	14,678.80	
40 05 19 00-0531 EA 48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,830.76	3,885.92
For Class 52 Rating, Deduct	-5,603.73	
For Class 54 Rating, Add	7,712.10	
For Class 55 Rating, Add	11,501.59	
For Class 56 Rating, Add	15,240.14	
40 05 19 00-0532 EA 48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,737.15	3,890.54
For Class 52 Rating, Deduct	-5,812.66	
For Class 54 Rating, Add	7,997.10	
For Class 55 Rating, Add	11,925.33	
For Class 56 Rating, Add	15,800.72	
40 05 19 00-0533 EA 48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,659.16	3,895.15
For Class 52 Rating, Deduct	-6,023.32	
For Class 54 Rating, Add	8,284.43	
For Class 55 Rating, Add	12,352.54	
For Class 56 Rating, Add	16,365.90	
40 05 19 00-0534 EA 48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,568.15	3,899.77
For Class 52 Rating, Deduct	-6,232.54	
For Class 54 Rating, Add	8,569.82	
For Class 55 Rating, Add	12,776.86	
For Class 56 Rating, Add	16,927.24	
40 05 19 00-0535 EA 48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	64,474.54	3,904.39
For Class 52 Rating, Deduct	-6,441.47	
For Class 54 Rating, Add	8,854.81	
For Class 55 Rating, Add	13,200.59	
For Class 56 Rating, Add	17,487.82	
40 05 19 00-0536 EA 48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,396.55	3,909.00
For Class 52 Rating, Deduct	-6,652.12	
For Class 54 Rating, Add	9,142.15	
For Class 55 Rating, Add	13,627.81	
For Class 56 Rating, Add	18,053.00	
40 05 19 00-0537 EA 48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,308.15	3,913.62
For Class 52 Rating, Deduct	-6,861.63	
For Class 54 Rating, Add	9,427.92	
For Class 55 Rating, Add	14,052.70	
For Class 56 Rating, Add	18,615.11	
40 05 19 00-0538 EA 48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,214.54	3,918.23
For Class 52 Rating, Deduct	-7,070.56	
For Class 54 Rating, Add	9,712.92	
For Class 55 Rating, Add	14,476.44	
For Class 56 Rating, Add	19,175.68	
40 05 19 00-0539 EA 48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	72,136.55	3,922.85
For Class 52 Rating, Deduct	-7,281.21	
For Class 54 Rating, Add	10,000.25	
For Class 55 Rating, Add	14,903.65	
For Class 56 Rating, Add	19,740.86	
40 05 19 00-0540 EA 48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	74,045.55	3,927.46
For Class 52 Rating, Deduct	-7,490.43	
For Class 54 Rating, Add	10,285.64	
For Class 55 Rating, Add	15,327.97	
For Class 56 Rating, Add	20,302.21	
40 05 19 00-0541 EA 48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	75,951.94	3,932.07
For Class 52 Rating, Deduct	-7,699.37	
For Class 54 Rating, Add	10,570.63	
For Class 55 Rating, Add	15,751.70	
For Class 56 Rating, Add	20,862.78	
40 05 19 00-0542 EA 48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	77,873.95	3,936.69
For Class 52 Rating, Deduct	-7,910.02	
For Class 54 Rating, Add	10,857.97	
For Class 55 Rating, Add	16,178.92	
For Class 56 Rating, Add	21,427.96	
40 05 19 00-0543 EA 48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	79,782.95	3,941.31
For Class 52 Rating, Deduct	-8,119.24	
For Class 54 Rating, Add	11,143.35	
For Class 55 Rating, Add	16,603.23	
For Class 56 Rating, Add	21,989.31	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0544	EA		48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	81,457.77	3,945.92
			For Class 52 Rating, Deduct	-8,302.70	
			For Class 54 Rating, Add	11,393.61	
			For Class 55 Rating, Add	16,975.33	
			For Class 56 Rating, Add	22,481.57	
40 05 19 00-0545	EA		48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	83,613.95	3,950.54
			For Class 52 Rating, Deduct	-8,539.11	
			For Class 54 Rating, Add	11,716.07	
			For Class 55 Rating, Add	17,454.76	
			For Class 56 Rating, Add	23,115.83	
40 05 19 00-0546	EA		48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	85,520.33	3,955.15
			For Class 52 Rating, Deduct	-8,748.04	
			For Class 54 Rating, Add	12,001.06	
			For Class 55 Rating, Add	17,878.50	
			For Class 56 Rating, Add	23,676.40	
40 05 19 00-0547	EA		48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	87,444.94	3,959.77
			For Class 52 Rating, Deduct	-8,958.98	
			For Class 54 Rating, Add	12,288.79	
			For Class 55 Rating, Add	18,306.29	
			For Class 56 Rating, Add	24,242.35	
40 05 19 00-0548	EA		48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	89,351.34	3,964.38
			For Class 52 Rating, Deduct	-9,167.92	
			For Class 54 Rating, Add	12,573.78	
			For Class 55 Rating, Add	18,730.03	
			For Class 56 Rating, Add	24,802.93	
40 05 19 00-0549	EA		48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	91,257.73	3,968.99
			For Class 52 Rating, Deduct	-9,376.85	
			For Class 54 Rating, Add	12,858.78	
			For Class 55 Rating, Add	19,153.76	
			For Class 56 Rating, Add	25,363.50	
40 05 19 00-0550	EA		48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	93,182.34	3,973.62
			For Class 52 Rating, Deduct	-9,587.79	
			For Class 54 Rating, Add	13,146.51	
			For Class 55 Rating, Add	19,581.56	
			For Class 56 Rating, Add	25,929.45	
40 05 19 00-0551	EA		48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	95,088.74	3,978.23
			For Class 52 Rating, Deduct	-9,796.72	
			For Class 54 Rating, Add	13,431.50	
			For Class 55 Rating, Add	20,005.29	
			For Class 56 Rating, Add	26,490.02	
40 05 19 00-0552	EA		48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	96,997.73	3,982.84
			For Class 52 Rating, Deduct	-10,005.94	
			For Class 54 Rating, Add	13,716.88	
			For Class 55 Rating, Add	20,429.61	
			For Class 56 Rating, Add	27,051.37	
40 05 19 00-0553	EA		48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	98,919.74	3,987.46
			For Class 52 Rating, Deduct	-10,216.60	
			For Class 54 Rating, Add	14,004.22	
			For Class 55 Rating, Add	20,856.82	
			For Class 56 Rating, Add	27,616.55	
40 05 19 00-0554			Flanged End x Grooved End (FxG), Cement Lined, Bituminous Seal Coat, Ductile Iron Piping (40 05 19 00-0001)		
40 05 19 00-0555			4" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0556	EA		4" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	762.31	211.19
			For Class 52 Rating, Deduct	-48.66	
			For Class 54 Rating, Add	70.19	
			For Class 55 Rating, Add	106.32	
			For Class 56 Rating, Add	142.01	
40 05 19 00-0557	EA		4" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	835.55	214.88
			For Class 52 Rating, Deduct	-56.10	
			For Class 54 Rating, Add	80.40	
			For Class 55 Rating, Add	121.54	
			For Class 56 Rating, Add	162.16	
40 05 19 00-0558	EA		4" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	908.79	218.57
			For Class 52 Rating, Deduct	-63.54	
			For Class 54 Rating, Add	90.62	
			For Class 55 Rating, Add	136.76	
			For Class 56 Rating, Add	182.32	
40 05 19 00-0559	EA		4" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	982.05	222.27
			For Class 52 Rating, Deduct	-70.98	
			For Class 54 Rating, Add	100.83	
			For Class 55 Rating, Add	151.98	
			For Class 56 Rating, Add	202.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0560	EA		4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,055.29	225.96
			For Class 52 Rating, Deduct	-78.42	
			For Class 54 Rating, Add	111.05	
			For Class 55 Rating, Add	167.20	
			For Class 56 Rating, Add	222.64	
40 05 19 00-0561	EA		4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,128.53	229.65
			For Class 52 Rating, Deduct	-85.86	
			For Class 54 Rating, Add	121.26	
			For Class 55 Rating, Add	182.42	
			For Class 56 Rating, Add	242.80	
40 05 19 00-0562	EA		4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,201.78	233.34
			For Class 52 Rating, Deduct	-93.31	
			For Class 54 Rating, Add	131.48	
			For Class 55 Rating, Add	197.64	
			For Class 56 Rating, Add	262.96	
40 05 19 00-0563	EA		4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,275.02	237.04
			For Class 52 Rating, Deduct	-100.75	
			For Class 54 Rating, Add	141.69	
			For Class 55 Rating, Add	212.86	
			For Class 56 Rating, Add	283.11	
40 05 19 00-0564	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,348.27	240.72
			For Class 52 Rating, Deduct	-108.19	
			For Class 54 Rating, Add	151.91	
			For Class 55 Rating, Add	228.08	
			For Class 56 Rating, Add	303.27	
40 05 19 00-0565	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,421.51	244.42
			For Class 52 Rating, Deduct	-115.63	
			For Class 54 Rating, Add	162.12	
			For Class 55 Rating, Add	243.30	
			For Class 56 Rating, Add	323.43	
40 05 19 00-0566	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,494.75	248.11
			For Class 52 Rating, Deduct	-123.07	
			For Class 54 Rating, Add	172.34	
			For Class 55 Rating, Add	258.52	
			For Class 56 Rating, Add	343.59	
40 05 19 00-0567	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,568.00	251.80
			For Class 52 Rating, Deduct	-130.51	
			For Class 54 Rating, Add	182.55	
			For Class 55 Rating, Add	273.74	
			For Class 56 Rating, Add	363.75	
40 05 19 00-0568	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,641.24	255.49
			For Class 52 Rating, Deduct	-137.95	
			For Class 54 Rating, Add	192.76	
			For Class 55 Rating, Add	288.96	
			For Class 56 Rating, Add	383.90	
40 05 19 00-0569	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,714.48	259.19
			For Class 52 Rating, Deduct	-145.40	
			For Class 54 Rating, Add	202.98	
			For Class 55 Rating, Add	304.18	
			For Class 56 Rating, Add	404.06	
40 05 19 00-0570	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,787.73	262.88
			For Class 52 Rating, Deduct	-152.84	
			For Class 54 Rating, Add	213.19	
			For Class 55 Rating, Add	319.40	
			For Class 56 Rating, Add	424.22	
40 05 19 00-0571	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,860.97	266.57
			For Class 52 Rating, Deduct	-160.28	
			For Class 54 Rating, Add	223.41	
			For Class 55 Rating, Add	334.62	
			For Class 56 Rating, Add	444.38	
40 05 19 00-0572	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,934.21	270.26
			For Class 52 Rating, Deduct	-167.72	
			For Class 54 Rating, Add	233.62	
			For Class 55 Rating, Add	349.84	
			For Class 56 Rating, Add	464.54	
40 05 19 00-0573	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,007.47	273.96
			For Class 52 Rating, Deduct	-175.16	
			For Class 54 Rating, Add	243.84	
			For Class 55 Rating, Add	365.06	
			For Class 56 Rating, Add	484.70	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0574	EA	4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,080.70	277.64
		For Class 52 Rating, Deduct	-182.60	
		For Class 54 Rating, Add	254.05	
		For Class 55 Rating, Add	380.28	
		For Class 56 Rating, Add	504.85	
40 05 19 00-0575	EA	4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,153.94	281.34
		For Class 52 Rating, Deduct	-190.04	
		For Class 54 Rating, Add	264.27	
		For Class 55 Rating, Add	395.50	
		For Class 56 Rating, Add	525.01	
40 05 19 00-0576	EA	4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,227.19	285.03
		For Class 52 Rating, Deduct	-197.49	
		For Class 54 Rating, Add	274.48	
		For Class 55 Rating, Add	410.72	
		For Class 56 Rating, Add	545.17	
40 05 19 00-0577	EA	4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,300.43	288.73
		For Class 52 Rating, Deduct	-204.93	
		For Class 54 Rating, Add	284.70	
		For Class 55 Rating, Add	425.94	
		For Class 56 Rating, Add	565.32	
40 05 19 00-0578	EA	4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,373.67	292.41
		For Class 52 Rating, Deduct	-212.37	
		For Class 54 Rating, Add	294.91	
		For Class 55 Rating, Add	441.16	
		For Class 56 Rating, Add	585.48	
40 05 19 00-0579	EA	4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,446.92	296.11
		For Class 52 Rating, Deduct	-219.81	
		For Class 54 Rating, Add	305.12	
		For Class 55 Rating, Add	456.38	
		For Class 56 Rating, Add	605.64	
40 05 19 00-0580	EA	4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,520.16	299.80
		For Class 52 Rating, Deduct	-227.25	
		For Class 54 Rating, Add	315.34	
		For Class 55 Rating, Add	471.60	
		For Class 56 Rating, Add	625.80	
40 05 19 00-0581	EA	4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,593.40	303.49
		For Class 52 Rating, Deduct	-234.69	
		For Class 54 Rating, Add	325.55	
		For Class 55 Rating, Add	486.82	
		For Class 56 Rating, Add	645.96	
40 05 19 00-0582	EA	4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,666.65	307.18
		For Class 52 Rating, Deduct	-242.13	
		For Class 54 Rating, Add	335.77	
		For Class 55 Rating, Add	502.04	
		For Class 56 Rating, Add	666.12	
40 05 19 00-0583	EA	4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,739.89	310.88
		For Class 52 Rating, Deduct	-249.58	
		For Class 54 Rating, Add	345.98	
		For Class 55 Rating, Add	517.26	
		For Class 56 Rating, Add	686.27	
40 05 19 00-0584	EA	4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,813.13	314.57
		For Class 52 Rating, Deduct	-257.02	
		For Class 54 Rating, Add	356.20	
		For Class 55 Rating, Add	532.48	
		For Class 56 Rating, Add	706.43	
40 05 19 00-0585	EA	4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,886.38	318.26
		For Class 52 Rating, Deduct	-264.46	
		For Class 54 Rating, Add	366.41	
		For Class 55 Rating, Add	547.70	
		For Class 56 Rating, Add	726.59	
40 05 19 00-0586	EA	4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,959.62	321.95
		For Class 52 Rating, Deduct	-271.90	
		For Class 54 Rating, Add	376.63	
		For Class 55 Rating, Add	562.92	
		For Class 56 Rating, Add	746.75	
40 05 19 00-0587	EA	4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,032.87	325.65
		For Class 52 Rating, Deduct	-279.34	
		For Class 54 Rating, Add	386.84	
		For Class 55 Rating, Add	578.14	
		For Class 56 Rating, Add	766.91	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0588	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,106.12	329.33
			For Class 52 Rating, Deduct	-286.78	
			For Class 54 Rating, Add	397.06	
			For Class 55 Rating, Add	593.36	
			For Class 56 Rating, Add	787.06	
40 05 19 00-0589	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,179.36	333.03
			For Class 52 Rating, Deduct	-294.22	
			For Class 54 Rating, Add	407.27	
			For Class 55 Rating, Add	608.58	
			For Class 56 Rating, Add	807.22	
40 05 19 00-0590	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,252.60	336.72
			For Class 52 Rating, Deduct	-301.67	
			For Class 54 Rating, Add	417.49	
			For Class 55 Rating, Add	623.80	
			For Class 56 Rating, Add	827.38	
40 05 19 00-0591	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,325.85	340.41
			For Class 52 Rating, Deduct	-309.11	
			For Class 54 Rating, Add	427.70	
			For Class 55 Rating, Add	639.02	
			For Class 56 Rating, Add	847.54	
40 05 19 00-0592	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,399.09	344.10
			For Class 52 Rating, Deduct	-316.55	
			For Class 54 Rating, Add	437.91	
			For Class 55 Rating, Add	654.24	
			For Class 56 Rating, Add	867.70	
40 05 19 00-0593	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,472.33	347.80
			For Class 52 Rating, Deduct	-323.99	
			For Class 54 Rating, Add	448.13	
			For Class 55 Rating, Add	669.46	
			For Class 56 Rating, Add	887.85	
40 05 19 00-0594	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,545.58	351.49
			For Class 52 Rating, Deduct	-331.43	
			For Class 54 Rating, Add	458.34	
			For Class 55 Rating, Add	684.68	
			For Class 56 Rating, Add	908.01	

40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-0554)

40 05 19 00-0596	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	951.78	265.83
			For Class 52 Rating, Deduct	-60.39	
			For Class 54 Rating, Add	87.18	
			For Class 55 Rating, Add	132.10	
			For Class 56 Rating, Add	176.46	
40 05 19 00-0597	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,040.64	269.53
			For Class 52 Rating, Deduct	-69.55	
			For Class 54 Rating, Add	99.74	
			For Class 55 Rating, Add	150.80	
			For Class 56 Rating, Add	201.22	
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,129.49	273.21
			For Class 52 Rating, Deduct	-78.71	
			For Class 54 Rating, Add	112.30	
			For Class 55 Rating, Add	169.50	
			For Class 56 Rating, Add	225.98	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,218.34	276.91
			For Class 52 Rating, Deduct	-87.87	
			For Class 54 Rating, Add	124.85	
			For Class 55 Rating, Add	188.20	
			For Class 56 Rating, Add	250.75	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,307.20	280.60
			For Class 52 Rating, Deduct	-97.03	
			For Class 54 Rating, Add	137.41	
			For Class 55 Rating, Add	206.90	
			For Class 56 Rating, Add	275.51	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,396.06	284.29
			For Class 52 Rating, Deduct	-106.18	
			For Class 54 Rating, Add	149.97	
			For Class 55 Rating, Add	225.60	
			For Class 56 Rating, Add	300.27	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0602	EA		6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,484.91	287.98
			For Class 52 Rating, Deduct	-115.34	
			For Class 54 Rating, Add	162.52	
			For Class 55 Rating, Add	244.30	
			For Class 56 Rating, Add	325.04	
40 05 19 00-0603	EA		6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,573.78	291.68
			For Class 52 Rating, Deduct	-124.50	
			For Class 54 Rating, Add	175.08	
			For Class 55 Rating, Add	263.01	
			For Class 56 Rating, Add	349.80	
40 05 19 00-0604	EA		6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,662.63	295.37
			For Class 52 Rating, Deduct	-133.66	
			For Class 54 Rating, Add	187.64	
			For Class 55 Rating, Add	281.71	
			For Class 56 Rating, Add	374.57	
40 05 19 00-0605	EA		6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,751.48	299.06
			For Class 52 Rating, Deduct	-142.82	
			For Class 54 Rating, Add	200.19	
			For Class 55 Rating, Add	300.41	
			For Class 56 Rating, Add	399.33	
40 05 19 00-0606	EA		6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,840.34	302.75
			For Class 52 Rating, Deduct	-151.98	
			For Class 54 Rating, Add	212.75	
			For Class 55 Rating, Add	319.11	
			For Class 56 Rating, Add	424.09	
40 05 19 00-0607	EA		6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,929.19	306.45
			For Class 52 Rating, Deduct	-161.14	
			For Class 54 Rating, Add	225.30	
			For Class 55 Rating, Add	337.81	
			For Class 56 Rating, Add	448.85	
40 05 19 00-0608	EA		6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,018.04	310.13
			For Class 52 Rating, Deduct	-170.30	
			For Class 54 Rating, Add	237.86	
			For Class 55 Rating, Add	356.51	
			For Class 56 Rating, Add	473.62	
40 05 19 00-0609	EA		6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,106.90	313.83
			For Class 52 Rating, Deduct	-179.45	
			For Class 54 Rating, Add	250.42	
			For Class 55 Rating, Add	375.21	
			For Class 56 Rating, Add	498.38	
40 05 19 00-0610	EA		6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,195.76	317.52
			For Class 52 Rating, Deduct	-188.61	
			For Class 54 Rating, Add	262.97	
			For Class 55 Rating, Add	393.92	
			For Class 56 Rating, Add	523.15	
40 05 19 00-0611	EA		6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,284.61	321.22
			For Class 52 Rating, Deduct	-197.77	
			For Class 54 Rating, Add	275.53	
			For Class 55 Rating, Add	412.62	
			For Class 56 Rating, Add	547.91	
40 05 19 00-0612	EA		6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,373.47	324.90
			For Class 52 Rating, Deduct	-206.93	
			For Class 54 Rating, Add	288.09	
			For Class 55 Rating, Add	431.32	
			For Class 56 Rating, Add	572.67	
40 05 19 00-0613	EA		6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,462.32	328.60
			For Class 52 Rating, Deduct	-216.09	
			For Class 54 Rating, Add	300.64	
			For Class 55 Rating, Add	450.02	
			For Class 56 Rating, Add	597.44	
40 05 19 00-0614	EA		6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,551.17	332.29
			For Class 52 Rating, Deduct	-225.25	
			For Class 54 Rating, Add	313.20	
			For Class 55 Rating, Add	468.72	
			For Class 56 Rating, Add	622.20	
40 05 19 00-0615	EA		6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,640.04	335.98
			For Class 52 Rating, Deduct	-234.41	
			For Class 54 Rating, Add	325.75	
			For Class 55 Rating, Add	487.42	
			For Class 56 Rating, Add	646.96	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0616	EA		6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,728.89	339.67
			For Class 52 Rating, Deduct	-243.57	
			For Class 54 Rating, Add	338.31	
			For Class 55 Rating, Add	506.13	
			For Class 56 Rating, Add	671.73	
40 05 19 00-0617	EA		6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,817.75	343.37
			For Class 52 Rating, Deduct	-252.73	
			For Class 54 Rating, Add	350.87	
			For Class 55 Rating, Add	524.83	
			For Class 56 Rating, Add	696.49	
40 05 19 00-0618	EA		6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,906.61	347.05
			For Class 52 Rating, Deduct	-261.88	
			For Class 54 Rating, Add	363.42	
			For Class 55 Rating, Add	543.53	
			For Class 56 Rating, Add	721.25	
40 05 19 00-0619	EA		6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,995.46	350.75
			For Class 52 Rating, Deduct	-271.04	
			For Class 54 Rating, Add	375.98	
			For Class 55 Rating, Add	562.23	
			For Class 56 Rating, Add	746.02	
40 05 19 00-0620	EA		6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,084.31	354.44
			For Class 52 Rating, Deduct	-280.20	
			For Class 54 Rating, Add	388.54	
			For Class 55 Rating, Add	580.93	
			For Class 56 Rating, Add	770.78	
40 05 19 00-0621	EA		6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,173.17	358.14
			For Class 52 Rating, Deduct	-289.36	
			For Class 54 Rating, Add	401.09	
			For Class 55 Rating, Add	599.63	
			For Class 56 Rating, Add	795.54	
40 05 19 00-0622	EA		6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,262.02	361.82
			For Class 52 Rating, Deduct	-298.52	
			For Class 54 Rating, Add	413.65	
			For Class 55 Rating, Add	618.33	
			For Class 56 Rating, Add	820.31	
40 05 19 00-0623	EA		6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,350.87	365.52
			For Class 52 Rating, Deduct	-307.68	
			For Class 54 Rating, Add	426.20	
			For Class 55 Rating, Add	637.04	
			For Class 56 Rating, Add	845.07	
40 05 19 00-0624	EA		6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,439.74	369.21
			For Class 52 Rating, Deduct	-316.84	
			For Class 54 Rating, Add	438.76	
			For Class 55 Rating, Add	655.74	
			For Class 56 Rating, Add	869.84	
40 05 19 00-0625	EA		6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,528.59	372.90
			For Class 52 Rating, Deduct	-325.99	
			For Class 54 Rating, Add	451.32	
			For Class 55 Rating, Add	674.44	
			For Class 56 Rating, Add	894.60	
40 05 19 00-0626	EA		6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,617.44	376.59
			For Class 52 Rating, Deduct	-335.15	
			For Class 54 Rating, Add	463.87	
			For Class 55 Rating, Add	693.14	
			For Class 56 Rating, Add	919.36	
40 05 19 00-0627	EA		6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,706.30	380.29
			For Class 52 Rating, Deduct	-344.31	
			For Class 54 Rating, Add	476.43	
			For Class 55 Rating, Add	711.84	
			For Class 56 Rating, Add	944.13	
40 05 19 00-0628	EA		6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,795.15	383.98
			For Class 52 Rating, Deduct	-353.47	
			For Class 54 Rating, Add	488.99	
			For Class 55 Rating, Add	730.54	
			For Class 56 Rating, Add	968.89	
40 05 19 00-0629	EA		6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,884.01	387.67
			For Class 52 Rating, Deduct	-362.63	
			For Class 54 Rating, Add	501.54	
			For Class 55 Rating, Add	749.25	
			For Class 56 Rating, Add	993.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0630	EA		6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,972.87	391.36
			For Class 52 Rating, Deduct	-371.79	
			For Class 54 Rating, Add	514.10	
			For Class 55 Rating, Add	767.95	
			For Class 56 Rating, Add	1,018.41	
40 05 19 00-0631	EA		6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,061.73	395.06
			For Class 52 Rating, Deduct	-380.95	
			For Class 54 Rating, Add	526.66	
			For Class 55 Rating, Add	786.65	
			For Class 56 Rating, Add	1,043.18	
40 05 19 00-0632	EA		6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,150.58	398.74
			For Class 52 Rating, Deduct	-390.11	
			For Class 54 Rating, Add	539.21	
			For Class 55 Rating, Add	805.35	
			For Class 56 Rating, Add	1,067.94	
40 05 19 00-0633	EA		6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,239.44	402.44
			For Class 52 Rating, Deduct	-399.26	
			For Class 54 Rating, Add	551.77	
			For Class 55 Rating, Add	824.05	
			For Class 56 Rating, Add	1,092.71	
40 05 19 00-0634	EA		6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,328.29	406.13
			For Class 52 Rating, Deduct	-408.42	
			For Class 54 Rating, Add	564.33	
			For Class 55 Rating, Add	842.75	
			For Class 56 Rating, Add	1,117.47	
40 05 19 00-0635			8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0636	EA		8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,316.05	339.67
			For Class 52 Rating, Deduct	-88.15	
			For Class 54 Rating, Add	126.38	
			For Class 55 Rating, Add	191.06	
			For Class 56 Rating, Add	254.94	
40 05 19 00-0637	EA		8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,436.13	343.37
			For Class 52 Rating, Deduct	-100.75	
			For Class 54 Rating, Add	143.63	
			For Class 55 Rating, Add	216.73	
			For Class 56 Rating, Add	288.91	
40 05 19 00-0638	EA		8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,556.21	347.05
			For Class 52 Rating, Deduct	-113.34	
			For Class 54 Rating, Add	160.86	
			For Class 55 Rating, Add	242.39	
			For Class 56 Rating, Add	322.89	
40 05 19 00-0639	EA		8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,676.28	350.75
			For Class 52 Rating, Deduct	-125.93	
			For Class 54 Rating, Add	178.10	
			For Class 55 Rating, Add	268.05	
			For Class 56 Rating, Add	356.86	
40 05 19 00-0640	EA		8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,796.36	354.44
			For Class 52 Rating, Deduct	-138.53	
			For Class 54 Rating, Add	195.34	
			For Class 55 Rating, Add	293.72	
			For Class 56 Rating, Add	390.84	
40 05 19 00-0641	EA		8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,916.44	358.14
			For Class 52 Rating, Deduct	-151.12	
			For Class 54 Rating, Add	212.58	
			For Class 55 Rating, Add	319.38	
			For Class 56 Rating, Add	424.81	
40 05 19 00-0642	EA		8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,036.52	361.82
			For Class 52 Rating, Deduct	-163.71	
			For Class 54 Rating, Add	229.82	
			For Class 55 Rating, Add	345.05	
			For Class 56 Rating, Add	458.78	
40 05 19 00-0643	EA		8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,156.59	365.52
			For Class 52 Rating, Deduct	-176.31	
			For Class 54 Rating, Add	247.06	
			For Class 55 Rating, Add	370.71	
			For Class 56 Rating, Add	492.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0644	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,276.68	369.21
		For Class 52 Rating, Deduct		-188.90	
		For Class 54 Rating, Add		264.30	
		For Class 55 Rating, Add		396.38	
		For Class 56 Rating, Add		526.73	
40 05 19 00-0645	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,396.75	372.90
		For Class 52 Rating, Deduct		-201.49	
		For Class 54 Rating, Add		281.54	
		For Class 55 Rating, Add		422.04	
		For Class 56 Rating, Add		560.71	
40 05 19 00-0646	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,516.83	376.59
		For Class 52 Rating, Deduct		-214.09	
		For Class 54 Rating, Add		298.78	
		For Class 55 Rating, Add		447.71	
		For Class 56 Rating, Add		594.68	
40 05 19 00-0647	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,636.91	380.29
		For Class 52 Rating, Deduct		-226.68	
		For Class 54 Rating, Add		316.02	
		For Class 55 Rating, Add		473.37	
		For Class 56 Rating, Add		628.66	
40 05 19 00-0648	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,756.99	383.98
		For Class 52 Rating, Deduct		-239.27	
		For Class 54 Rating, Add		333.26	
		For Class 55 Rating, Add		499.03	
		For Class 56 Rating, Add		662.63	
40 05 19 00-0649	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,877.07	387.67
		For Class 52 Rating, Deduct		-251.87	
		For Class 54 Rating, Add		350.50	
		For Class 55 Rating, Add		524.70	
		For Class 56 Rating, Add		696.60	
40 05 19 00-0650	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,997.15	391.36
		For Class 52 Rating, Deduct		-264.46	
		For Class 54 Rating, Add		367.74	
		For Class 55 Rating, Add		550.36	
		For Class 56 Rating, Add		730.58	
40 05 19 00-0651	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,117.23	395.06
		For Class 52 Rating, Deduct		-277.05	
		For Class 54 Rating, Add		384.98	
		For Class 55 Rating, Add		576.03	
		For Class 56 Rating, Add		764.55	
40 05 19 00-0652	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,237.30	398.74
		For Class 52 Rating, Deduct		-289.65	
		For Class 54 Rating, Add		402.22	
		For Class 55 Rating, Add		601.69	
		For Class 56 Rating, Add		798.53	
40 05 19 00-0653	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,357.39	402.44
		For Class 52 Rating, Deduct		-302.24	
		For Class 54 Rating, Add		419.46	
		For Class 55 Rating, Add		627.36	
		For Class 56 Rating, Add		832.50	
40 05 19 00-0654	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,477.46	406.13
		For Class 52 Rating, Deduct		-314.83	
		For Class 54 Rating, Add		436.70	
		For Class 55 Rating, Add		653.02	
		For Class 56 Rating, Add		866.48	
40 05 19 00-0655	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,597.54	409.83
		For Class 52 Rating, Deduct		-327.43	
		For Class 54 Rating, Add		453.94	
		For Class 55 Rating, Add		678.68	
		For Class 56 Rating, Add		900.45	
40 05 19 00-0656	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,717.62	413.51
		For Class 52 Rating, Deduct		-340.02	
		For Class 54 Rating, Add		471.18	
		For Class 55 Rating, Add		704.35	
		For Class 56 Rating, Add		934.42	
40 05 19 00-0657	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,837.70	417.21
		For Class 52 Rating, Deduct		-352.61	
		For Class 54 Rating, Add		488.42	
		For Class 55 Rating, Add		730.01	
		For Class 56 Rating, Add		968.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0658	EA	8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,957.77	420.90
		For Class 52 Rating, Deduct		-365.21	
		For Class 54 Rating, Add		505.66	
		For Class 55 Rating, Add		755.68	
		For Class 56 Rating, Add		1,002.37	
40 05 19 00-0659	EA	8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,077.85	424.59
		For Class 52 Rating, Deduct		-377.80	
		For Class 54 Rating, Add		522.90	
		For Class 55 Rating, Add		781.34	
		For Class 56 Rating, Add		1,036.35	
40 05 19 00-0660	EA	8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,197.93	428.28
		For Class 52 Rating, Deduct		-390.39	
		For Class 54 Rating, Add		540.14	
		For Class 55 Rating, Add		807.01	
		For Class 56 Rating, Add		1,070.32	
40 05 19 00-0661	EA	8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,318.00	431.98
		For Class 52 Rating, Deduct		-402.99	
		For Class 54 Rating, Add		557.38	
		For Class 55 Rating, Add		832.67	
		For Class 56 Rating, Add		1,104.29	
40 05 19 00-0662	EA	8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,438.09	435.66
		For Class 52 Rating, Deduct		-415.58	
		For Class 54 Rating, Add		574.62	
		For Class 55 Rating, Add		858.33	
		For Class 56 Rating, Add		1,138.27	
40 05 19 00-0663	EA	8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,558.17	439.36
		For Class 52 Rating, Deduct		-428.17	
		For Class 54 Rating, Add		591.86	
		For Class 55 Rating, Add		884.00	
		For Class 56 Rating, Add		1,172.24	
40 05 19 00-0664	EA	8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,678.25	443.05
		For Class 52 Rating, Deduct		-440.77	
		For Class 54 Rating, Add		609.10	
		For Class 55 Rating, Add		909.66	
		For Class 56 Rating, Add		1,206.22	
40 05 19 00-0665	EA	8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,798.33	446.75
		For Class 52 Rating, Deduct		-453.36	
		For Class 54 Rating, Add		626.34	
		For Class 55 Rating, Add		935.33	
		For Class 56 Rating, Add		1,240.19	
40 05 19 00-0666	EA	8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,918.41	450.43
		For Class 52 Rating, Deduct		-465.95	
		For Class 54 Rating, Add		643.58	
		For Class 55 Rating, Add		960.99	
		For Class 56 Rating, Add		1,274.17	
40 05 19 00-0667	EA	8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,038.48	454.13
		For Class 52 Rating, Deduct		-478.55	
		For Class 54 Rating, Add		660.82	
		For Class 55 Rating, Add		986.66	
		For Class 56 Rating, Add		1,308.14	
40 05 19 00-0668	EA	8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,158.56	457.82
		For Class 52 Rating, Deduct		-491.14	
		For Class 54 Rating, Add		678.06	
		For Class 55 Rating, Add		1,012.32	
		For Class 56 Rating, Add		1,342.11	
40 05 19 00-0669	EA	8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,278.64	461.51
		For Class 52 Rating, Deduct		-503.73	
		For Class 54 Rating, Add		695.30	
		For Class 55 Rating, Add		1,037.98	
		For Class 56 Rating, Add		1,376.09	
40 05 19 00-0670	EA	8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,398.71	465.20
		For Class 52 Rating, Deduct		-516.32	
		For Class 54 Rating, Add		712.54	
		For Class 55 Rating, Add		1,063.65	
		For Class 56 Rating, Add		1,410.06	
40 05 19 00-0671	EA	8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,518.80	468.90
		For Class 52 Rating, Deduct		-528.92	
		For Class 54 Rating, Add		729.78	
		For Class 55 Rating, Add		1,089.31	
		For Class 56 Rating, Add		1,444.04	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,638.87	472.59
			For Class 52 Rating, Deduct	-541.51	
			For Class 54 Rating, Add	747.02	
			For Class 55 Rating, Add	1,114.98	
			For Class 56 Rating, Add	1,478.01	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,758.95	476.28
			For Class 52 Rating, Deduct	-554.11	
			For Class 54 Rating, Add	764.26	
			For Class 55 Rating, Add	1,140.64	
			For Class 56 Rating, Add	1,511.99	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,879.03	479.97
			For Class 52 Rating, Deduct	-566.70	
			For Class 54 Rating, Add	781.50	
			For Class 55 Rating, Add	1,166.30	
			For Class 56 Rating, Add	1,545.96	
40 05 19 00-0675 10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,651.70	413.51
			For Class 52 Rating, Deduct	-112.77	
			For Class 54 Rating, Add	161.29	
			For Class 55 Rating, Add	243.65	
			For Class 56 Rating, Add	324.98	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,808.20	417.21
			For Class 52 Rating, Deduct	-129.37	
			For Class 54 Rating, Add	184.00	
			For Class 55 Rating, Add	277.43	
			For Class 56 Rating, Add	369.70	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,964.70	420.90
			For Class 52 Rating, Deduct	-145.97	
			For Class 54 Rating, Add	206.70	
			For Class 55 Rating, Add	311.22	
			For Class 56 Rating, Add	414.42	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,121.21	424.59
			For Class 52 Rating, Deduct	-162.57	
			For Class 54 Rating, Add	229.40	
			For Class 55 Rating, Add	345.01	
			For Class 56 Rating, Add	459.14	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,277.71	428.28
			For Class 52 Rating, Deduct	-179.17	
			For Class 54 Rating, Add	252.11	
			For Class 55 Rating, Add	378.80	
			For Class 56 Rating, Add	503.86	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,434.21	431.98
			For Class 52 Rating, Deduct	-195.77	
			For Class 54 Rating, Add	274.81	
			For Class 55 Rating, Add	412.58	
			For Class 56 Rating, Add	548.58	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,590.72	435.66
			For Class 52 Rating, Deduct	-212.37	
			For Class 54 Rating, Add	297.51	
			For Class 55 Rating, Add	446.37	
			For Class 56 Rating, Add	593.30	
40 05 19 00-0683	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,747.24	439.36
			For Class 52 Rating, Deduct	-228.97	
			For Class 54 Rating, Add	320.22	
			For Class 55 Rating, Add	480.16	
			For Class 56 Rating, Add	638.02	
40 05 19 00-0684	EA		10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,903.74	443.05
			For Class 52 Rating, Deduct	-245.57	
			For Class 54 Rating, Add	342.92	
			For Class 55 Rating, Add	513.95	
			For Class 56 Rating, Add	662.74	
40 05 19 00-0685	EA		10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,060.25	446.75
			For Class 52 Rating, Deduct	-262.17	
			For Class 54 Rating, Add	365.63	
			For Class 55 Rating, Add	547.73	
			For Class 56 Rating, Add	727.46	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0686	EA	10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,216.75	450.43
		For Class 52 Rating, Deduct		-278.77	
		For Class 54 Rating, Add		388.33	
		For Class 55 Rating, Add		581.52	
		For Class 56 Rating, Add		772.18	
40 05 19 00-0687	EA	10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,373.25	454.13
		For Class 52 Rating, Deduct		-295.37	
		For Class 54 Rating, Add		411.03	
		For Class 55 Rating, Add		615.31	
		For Class 56 Rating, Add		816.90	
40 05 19 00-0688	EA	10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,529.76	457.82
		For Class 52 Rating, Deduct		-311.97	
		For Class 54 Rating, Add		433.74	
		For Class 55 Rating, Add		649.10	
		For Class 56 Rating, Add		861.62	
40 05 19 00-0689	EA	10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,686.26	461.51
		For Class 52 Rating, Deduct		-328.57	
		For Class 54 Rating, Add		456.44	
		For Class 55 Rating, Add		682.88	
		For Class 56 Rating, Add		906.34	
40 05 19 00-0690	EA	10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,842.77	465.20
		For Class 52 Rating, Deduct		-345.17	
		For Class 54 Rating, Add		479.15	
		For Class 55 Rating, Add		716.67	
		For Class 56 Rating, Add		951.06	
40 05 19 00-0691	EA	10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,999.28	468.90
		For Class 52 Rating, Deduct		-361.77	
		For Class 54 Rating, Add		501.85	
		For Class 55 Rating, Add		750.46	
		For Class 56 Rating, Add		995.78	
40 05 19 00-0692	EA	10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,155.78	472.59
		For Class 52 Rating, Deduct		-378.37	
		For Class 54 Rating, Add		524.55	
		For Class 55 Rating, Add		784.25	
		For Class 56 Rating, Add		1,040.50	
40 05 19 00-0693	EA	10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,312.28	476.28
		For Class 52 Rating, Deduct		-394.97	
		For Class 54 Rating, Add		547.26	
		For Class 55 Rating, Add		818.03	
		For Class 56 Rating, Add		1,085.22	
40 05 19 00-0694	EA	10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,468.79	479.97
		For Class 52 Rating, Deduct		-411.57	
		For Class 54 Rating, Add		569.96	
		For Class 55 Rating, Add		851.82	
		For Class 56 Rating, Add		1,129.94	
40 05 19 00-0695	EA	10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,625.29	483.67
		For Class 52 Rating, Deduct		-428.17	
		For Class 54 Rating, Add		592.66	
		For Class 55 Rating, Add		885.61	
		For Class 56 Rating, Add		1,174.66	
40 05 19 00-0696	EA	10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,781.79	487.35
		For Class 52 Rating, Deduct		-444.77	
		For Class 54 Rating, Add		615.37	
		For Class 55 Rating, Add		919.40	
		For Class 56 Rating, Add		1,219.38	
40 05 19 00-0697	EA	10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,938.32	491.05
		For Class 52 Rating, Deduct		-461.37	
		For Class 54 Rating, Add		638.07	
		For Class 55 Rating, Add		953.19	
		For Class 56 Rating, Add		1,264.10	
40 05 19 00-0698	EA	10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	5,094.82	494.74
		For Class 52 Rating, Deduct		-477.97	
		For Class 54 Rating, Add		660.78	
		For Class 55 Rating, Add		986.97	
		For Class 56 Rating, Add		1,308.82	
40 05 19 00-0699	EA	10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	5,251.32	498.43
		For Class 52 Rating, Deduct		-494.57	
		For Class 54 Rating, Add		683.48	
		For Class 55 Rating, Add		1,020.76	
		For Class 56 Rating, Add		1,353.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA		10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,407.83	502.12
			For Class 52 Rating, Deduct	-511.17	
			For Class 54 Rating, Add	706.18	
			For Class 55 Rating, Add	1,054.55	
			For Class 56 Rating, Add	1,398.26	
40 05 19 00-0701	EA		10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,564.33	505.82
			For Class 52 Rating, Deduct	-527.77	
			For Class 54 Rating, Add	728.89	
			For Class 55 Rating, Add	1,088.33	
			For Class 56 Rating, Add	1,442.98	
40 05 19 00-0702	EA		10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,720.83	509.51
			For Class 52 Rating, Deduct	-544.37	
			For Class 54 Rating, Add	751.59	
			For Class 55 Rating, Add	1,122.12	
			For Class 56 Rating, Add	1,487.70	
40 05 19 00-0703	EA		10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,877.34	513.20
			For Class 52 Rating, Deduct	-560.97	
			For Class 54 Rating, Add	774.29	
			For Class 55 Rating, Add	1,155.91	
			For Class 56 Rating, Add	1,532.42	
40 05 19 00-0704	EA		10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,033.84	516.89
			For Class 52 Rating, Deduct	-577.57	
			For Class 54 Rating, Add	797.00	
			For Class 55 Rating, Add	1,189.70	
			For Class 56 Rating, Add	1,577.14	
40 05 19 00-0705	EA		10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,190.35	520.59
			For Class 52 Rating, Deduct	-594.17	
			For Class 54 Rating, Add	819.70	
			For Class 55 Rating, Add	1,223.48	
			For Class 56 Rating, Add	1,621.86	
40 05 19 00-0706	EA		10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,346.86	524.27
			For Class 52 Rating, Deduct	-610.78	
			For Class 54 Rating, Add	842.41	
			For Class 55 Rating, Add	1,257.27	
			For Class 56 Rating, Add	1,666.58	
40 05 19 00-0707	EA		10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,503.36	527.97
			For Class 52 Rating, Deduct	-627.38	
			For Class 54 Rating, Add	865.11	
			For Class 55 Rating, Add	1,291.06	
			For Class 56 Rating, Add	1,711.30	
40 05 19 00-0708	EA		10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,659.86	531.66
			For Class 52 Rating, Deduct	-643.98	
			For Class 54 Rating, Add	887.81	
			For Class 55 Rating, Add	1,324.85	
			For Class 56 Rating, Add	1,756.02	
40 05 19 00-0709	EA		10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,816.37	535.36
			For Class 52 Rating, Deduct	-660.58	
			For Class 54 Rating, Add	910.52	
			For Class 55 Rating, Add	1,358.63	
			For Class 56 Rating, Add	1,800.74	
40 05 19 00-0710	EA		10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,972.87	539.04
			For Class 52 Rating, Deduct	-677.18	
			For Class 54 Rating, Add	933.22	
			For Class 55 Rating, Add	1,392.42	
			For Class 56 Rating, Add	1,845.46	
40 05 19 00-0711	EA		10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,129.38	542.74
			For Class 52 Rating, Deduct	-693.78	
			For Class 54 Rating, Add	955.93	
			For Class 55 Rating, Add	1,426.21	
			For Class 56 Rating, Add	1,890.18	
40 05 19 00-0712	EA		10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,285.90	546.43
			For Class 52 Rating, Deduct	-710.38	
			For Class 54 Rating, Add	978.63	
			For Class 55 Rating, Add	1,460.00	
			For Class 56 Rating, Add	1,934.91	
40 05 19 00-0713	EA		10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,442.40	550.12
			For Class 52 Rating, Deduct	-726.98	
			For Class 54 Rating, Add	1,001.33	
			For Class 55 Rating, Add	1,493.78	
			For Class 56 Rating, Add	1,979.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0714	EA		10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,598.90	553.81
			For Class 52 Rating, Deduct.....	-743.58	
			For Class 54 Rating, Add.....	1,024.04	
			For Class 55 Rating, Add.....	1,527.57	
			For Class 56 Rating, Add.....	2,024.35	
40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0716	EA		12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,141.37	516.89
			For Class 52 Rating, Deduct.....	-149.40	
			For Class 54 Rating, Add.....	213.13	
			For Class 55 Rating, Add.....	321.67	
			For Class 56 Rating, Add.....	428.86	
40 05 19 00-0717	EA		12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,336.90	520.59
			For Class 52 Rating, Deduct.....	-170.30	
			For Class 54 Rating, Add.....	241.69	
			For Class 55 Rating, Add.....	364.17	
			For Class 56 Rating, Add.....	485.10	
40 05 19 00-0718	EA		12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,532.44	524.27
			For Class 52 Rating, Deduct.....	-191.19	
			For Class 54 Rating, Add.....	270.24	
			For Class 55 Rating, Add.....	406.66	
			For Class 56 Rating, Add.....	541.33	
40 05 19 00-0719	EA		12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,727.97	527.97
			For Class 52 Rating, Deduct.....	-212.08	
			For Class 54 Rating, Add.....	298.80	
			For Class 55 Rating, Add.....	449.15	
			For Class 56 Rating, Add.....	597.56	
40 05 19 00-0720	EA		12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,923.50	531.66
			For Class 52 Rating, Deduct.....	-232.98	
			For Class 54 Rating, Add.....	327.36	
			For Class 55 Rating, Add.....	491.64	
			For Class 56 Rating, Add.....	653.80	
40 05 19 00-0721	EA		12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,119.04	535.36
			For Class 52 Rating, Deduct.....	-253.87	
			For Class 54 Rating, Add.....	355.92	
			For Class 55 Rating, Add.....	534.13	
			For Class 56 Rating, Add.....	710.03	
40 05 19 00-0722	EA		12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,314.57	539.04
			For Class 52 Rating, Deduct.....	-274.76	
			For Class 54 Rating, Add.....	384.48	
			For Class 55 Rating, Add.....	576.62	
			For Class 56 Rating, Add.....	766.27	
40 05 19 00-0723	EA		12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,510.11	542.74
			For Class 52 Rating, Deduct.....	-295.66	
			For Class 54 Rating, Add.....	413.03	
			For Class 55 Rating, Add.....	619.11	
			For Class 56 Rating, Add.....	822.50	
40 05 19 00-0724	EA		12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,705.65	546.43
			For Class 52 Rating, Deduct.....	-316.55	
			For Class 54 Rating, Add.....	441.59	
			For Class 55 Rating, Add.....	661.60	
			For Class 56 Rating, Add.....	878.73	
40 05 19 00-0725	EA		12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,901.18	550.12
			For Class 52 Rating, Deduct.....	-337.44	
			For Class 54 Rating, Add.....	470.15	
			For Class 55 Rating, Add.....	704.09	
			For Class 56 Rating, Add.....	934.97	
40 05 19 00-0726	EA		12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,096.71	553.81
			For Class 52 Rating, Deduct.....	-358.34	
			For Class 54 Rating, Add.....	498.71	
			For Class 55 Rating, Add.....	746.58	
			For Class 56 Rating, Add.....	991.20	
40 05 19 00-0727	EA		12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,292.25	557.51
			For Class 52 Rating, Deduct.....	-379.23	
			For Class 54 Rating, Add.....	527.27	
			For Class 55 Rating, Add.....	789.07	
			For Class 56 Rating, Add.....	1,047.43	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0728	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,487.78	561.20
		For Class 52 Rating, Deduct		-400.12	
		For Class 54 Rating, Add		555.83	
		For Class 55 Rating, Add		831.57	
		For Class 56 Rating, Add		1,103.67	
40 05 19 00-0729	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,683.31	564.89
		For Class 52 Rating, Deduct		-421.02	
		For Class 54 Rating, Add		584.38	
		For Class 55 Rating, Add		874.06	
		For Class 56 Rating, Add		1,159.90	
40 05 19 00-0730	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,878.85	568.58
		For Class 52 Rating, Deduct		-441.91	
		For Class 54 Rating, Add		612.94	
		For Class 55 Rating, Add		916.55	
		For Class 56 Rating, Add		1,216.13	
40 05 19 00-0731	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,074.38	572.28
		For Class 52 Rating, Deduct		-462.80	
		For Class 54 Rating, Add		641.50	
		For Class 55 Rating, Add		959.04	
		For Class 56 Rating, Add		1,272.37	
40 05 19 00-0732	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,269.91	575.96
		For Class 52 Rating, Deduct		-483.70	
		For Class 54 Rating, Add		670.06	
		For Class 55 Rating, Add		1,001.53	
		For Class 56 Rating, Add		1,328.60	
40 05 19 00-0733	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,465.45	579.66
		For Class 52 Rating, Deduct		-504.59	
		For Class 54 Rating, Add		698.62	
		For Class 55 Rating, Add		1,044.02	
		For Class 56 Rating, Add		1,384.84	
40 05 19 00-0734	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,660.99	583.35
		For Class 52 Rating, Deduct		-525.48	
		For Class 54 Rating, Add		727.18	
		For Class 55 Rating, Add		1,086.51	
		For Class 56 Rating, Add		1,441.07	
40 05 19 00-0735	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,856.52	587.04
		For Class 52 Rating, Deduct		-546.38	
		For Class 54 Rating, Add		755.73	
		For Class 55 Rating, Add		1,129.00	
		For Class 56 Rating, Add		1,497.31	
40 05 19 00-0736	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,052.06	590.73
		For Class 52 Rating, Deduct		-567.27	
		For Class 54 Rating, Add		784.29	
		For Class 55 Rating, Add		1,171.49	
		For Class 56 Rating, Add		1,553.54	
40 05 19 00-0737	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,247.60	594.43
		For Class 52 Rating, Deduct		-588.16	
		For Class 54 Rating, Add		812.85	
		For Class 55 Rating, Add		1,213.99	
		For Class 56 Rating, Add		1,609.77	
40 05 19 00-0738	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,443.13	598.12
		For Class 52 Rating, Deduct		-609.06	
		For Class 54 Rating, Add		841.41	
		For Class 55 Rating, Add		1,256.48	
		For Class 56 Rating, Add		1,666.01	
40 05 19 00-0739	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,638.67	601.81
		For Class 52 Rating, Deduct		-629.95	
		For Class 54 Rating, Add		869.97	
		For Class 55 Rating, Add		1,298.97	
		For Class 56 Rating, Add		1,722.24	
40 05 19 00-0740	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,834.20	605.50
		For Class 52 Rating, Deduct		-650.84	
		For Class 54 Rating, Add		898.52	
		For Class 55 Rating, Add		1,341.46	
		For Class 56 Rating, Add		1,778.47	
40 05 19 00-0741	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,029.73	609.20
		For Class 52 Rating, Deduct		-671.74	
		For Class 54 Rating, Add		927.08	
		For Class 55 Rating, Add		1,383.95	
		For Class 56 Rating, Add		1,834.71	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0742	EA	12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,225.27	612.88
		For Class 52 Rating, Deduct	-692.63	
		For Class 54 Rating, Add	955.64	
		For Class 55 Rating, Add	1,426.44	
		For Class 56 Rating, Add	1,890.94	
40 05 19 00-0743	EA	12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,420.80	616.58
		For Class 52 Rating, Deduct	-713.52	
		For Class 54 Rating, Add	984.20	
		For Class 55 Rating, Add	1,468.93	
		For Class 56 Rating, Add	1,947.18	
40 05 19 00-0744	EA	12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,616.33	620.27
		For Class 52 Rating, Deduct	-734.42	
		For Class 54 Rating, Add	1,012.76	
		For Class 55 Rating, Add	1,511.42	
		For Class 56 Rating, Add	2,003.41	
40 05 19 00-0745	EA	12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,811.87	623.97
		For Class 52 Rating, Deduct	-755.31	
		For Class 54 Rating, Add	1,041.32	
		For Class 55 Rating, Add	1,553.91	
		For Class 56 Rating, Add	2,059.64	
40 05 19 00-0746	EA	12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,007.40	627.65
		For Class 52 Rating, Deduct	-776.21	
		For Class 54 Rating, Add	1,069.87	
		For Class 55 Rating, Add	1,596.40	
		For Class 56 Rating, Add	2,115.88	
40 05 19 00-0747	EA	12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,202.93	631.35
		For Class 52 Rating, Deduct	-797.10	
		For Class 54 Rating, Add	1,098.43	
		For Class 55 Rating, Add	1,638.89	
		For Class 56 Rating, Add	2,172.11	
40 05 19 00-0748	EA	12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,398.47	635.04
		For Class 52 Rating, Deduct	-817.99	
		For Class 54 Rating, Add	1,126.99	
		For Class 55 Rating, Add	1,681.38	
		For Class 56 Rating, Add	2,228.34	
40 05 19 00-0749	EA	12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,594.00	638.73
		For Class 52 Rating, Deduct	-838.89	
		For Class 54 Rating, Add	1,155.55	
		For Class 55 Rating, Add	1,723.88	
		For Class 56 Rating, Add	2,284.58	
40 05 19 00-0750	EA	12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,789.53	642.42
		For Class 52 Rating, Deduct	-859.78	
		For Class 54 Rating, Add	1,184.11	
		For Class 55 Rating, Add	1,766.37	
		For Class 56 Rating, Add	2,340.81	
40 05 19 00-0751	EA	12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,985.08	646.12
		For Class 52 Rating, Deduct	-880.67	
		For Class 54 Rating, Add	1,212.66	
		For Class 55 Rating, Add	1,808.86	
		For Class 56 Rating, Add	2,397.05	
40 05 19 00-0752	EA	12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,180.61	649.80
		For Class 52 Rating, Deduct	-901.57	
		For Class 54 Rating, Add	1,241.22	
		For Class 55 Rating, Add	1,851.35	
		For Class 56 Rating, Add	2,453.28	
40 05 19 00-0753	EA	12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,376.14	653.50
		For Class 52 Rating, Deduct	-922.46	
		For Class 54 Rating, Add	1,269.78	
		For Class 55 Rating, Add	1,893.84	
		For Class 56 Rating, Add	2,509.51	
40 05 19 00-0754	EA	12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,571.68	657.19
		For Class 52 Rating, Deduct	-943.35	
		For Class 54 Rating, Add	1,298.34	
		For Class 55 Rating, Add	1,936.33	
		For Class 56 Rating, Add	2,565.75	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined,
Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0756	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,969.30	620.27
		For Class 52 Rating, Deduct		-223.25	
		For Class 54 Rating, Add		315.70	
		For Class 55 Rating, Add		475.13	
		For Class 56 Rating, Add		632.54	
40 05 19 00-0757	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,206.47	623.97
		For Class 52 Rating, Deduct		-248.72	
		For Class 54 Rating, Add		350.51	
		For Class 55 Rating, Add		526.91	
		For Class 56 Rating, Add		701.05	
40 05 19 00-0758	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,443.63	627.65
		For Class 52 Rating, Deduct		-274.19	
		For Class 54 Rating, Add		385.31	
		For Class 55 Rating, Add		578.68	
		For Class 56 Rating, Add		769.56	
40 05 19 00-0759	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,680.79	631.35
		For Class 52 Rating, Deduct		-299.66	
		For Class 54 Rating, Add		420.11	
		For Class 55 Rating, Add		630.46	
		For Class 56 Rating, Add		838.08	
40 05 19 00-0760	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,917.96	635.04
		For Class 52 Rating, Deduct		-325.14	
		For Class 54 Rating, Add		454.91	
		For Class 55 Rating, Add		682.23	
		For Class 56 Rating, Add		906.59	
40 05 19 00-0761	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		4,155.12	638.73
		For Class 52 Rating, Deduct		-350.61	
		For Class 54 Rating, Add		489.72	
		For Class 55 Rating, Add		734.01	
		For Class 56 Rating, Add		975.11	
40 05 19 00-0762	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		4,392.28	642.42
		For Class 52 Rating, Deduct		-376.08	
		For Class 54 Rating, Add		524.52	
		For Class 55 Rating, Add		785.78	
		For Class 56 Rating, Add		1,043.62	
40 05 19 00-0763	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		4,629.46	646.12
		For Class 52 Rating, Deduct		-401.55	
		For Class 54 Rating, Add		559.32	
		For Class 55 Rating, Add		837.55	
		For Class 56 Rating, Add		1,112.14	
40 05 19 00-0764	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		4,866.62	649.80
		For Class 52 Rating, Deduct		-427.03	
		For Class 54 Rating, Add		594.12	
		For Class 55 Rating, Add		889.33	
		For Class 56 Rating, Add		1,180.65	
40 05 19 00-0765	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		5,103.79	653.50
		For Class 52 Rating, Deduct		-452.50	
		For Class 54 Rating, Add		628.93	
		For Class 55 Rating, Add		941.11	
		For Class 56 Rating, Add		1,249.17	
40 05 19 00-0766	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		5,340.96	657.19
		For Class 52 Rating, Deduct		-477.97	
		For Class 54 Rating, Add		663.73	
		For Class 55 Rating, Add		992.88	
		For Class 56 Rating, Add		1,317.68	
40 05 19 00-0767	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		5,578.12	660.89
		For Class 52 Rating, Deduct		-503.45	
		For Class 54 Rating, Add		698.53	
		For Class 55 Rating, Add		1,044.65	
		For Class 56 Rating, Add		1,386.20	
40 05 19 00-0768	EA	14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		5,815.28	664.57
		For Class 52 Rating, Deduct		-528.92	
		For Class 54 Rating, Add		733.34	
		For Class 55 Rating, Add		1,096.43	
		For Class 56 Rating, Add		1,454.71	
40 05 19 00-0769	EA	14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		6,052.45	668.27
		For Class 52 Rating, Deduct		-554.39	
		For Class 54 Rating, Add		768.14	
		For Class 55 Rating, Add		1,148.20	
		For Class 56 Rating, Add		1,523.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0770	EA	14"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,289.61	671.96
			For Class 52 Rating, Deduct	-579.86	
			For Class 54 Rating, Add	802.94	
			For Class 55 Rating, Add	1,199.98	
			For Class 56 Rating, Add	1,591.74	
40 05 19 00-0771	EA	14"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,526.77	675.65
			For Class 52 Rating, Deduct	-605.34	
			For Class 54 Rating, Add	837.74	
			For Class 55 Rating, Add	1,251.75	
			For Class 56 Rating, Add	1,660.26	
40 05 19 00-0772	EA	14"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,763.94	679.34
			For Class 52 Rating, Deduct	-630.81	
			For Class 54 Rating, Add	872.55	
			For Class 55 Rating, Add	1,303.53	
			For Class 56 Rating, Add	1,728.77	
40 05 19 00-0773	EA	14"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,001.10	683.04
			For Class 52 Rating, Deduct	-656.28	
			For Class 54 Rating, Add	907.35	
			For Class 55 Rating, Add	1,355.30	
			For Class 56 Rating, Add	1,797.29	
40 05 19 00-0774	EA	14"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,238.26	686.73
			For Class 52 Rating, Deduct	-681.75	
			For Class 54 Rating, Add	942.15	
			For Class 55 Rating, Add	1,407.07	
			For Class 56 Rating, Add	1,865.80	
40 05 19 00-0775	EA	14"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,475.43	690.42
			For Class 52 Rating, Deduct	-707.23	
			For Class 54 Rating, Add	976.95	
			For Class 55 Rating, Add	1,458.85	
			For Class 56 Rating, Add	1,934.31	
40 05 19 00-0776	EA	14"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,712.60	694.11
			For Class 52 Rating, Deduct	-732.70	
			For Class 54 Rating, Add	1,011.76	
			For Class 55 Rating, Add	1,510.63	
			For Class 56 Rating, Add	2,002.83	
40 05 19 00-0777	EA	14"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,949.78	697.81
			For Class 52 Rating, Deduct	-758.17	
			For Class 54 Rating, Add	1,046.56	
			For Class 55 Rating, Add	1,562.40	
			For Class 56 Rating, Add	2,071.35	
40 05 19 00-0778	EA	14"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,186.94	701.49
			For Class 52 Rating, Deduct	-783.65	
			For Class 54 Rating, Add	1,081.36	
			For Class 55 Rating, Add	1,614.17	
			For Class 56 Rating, Add	2,139.86	
40 05 19 00-0779	EA	14"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,424.10	705.19
			For Class 52 Rating, Deduct	-809.12	
			For Class 54 Rating, Add	1,116.17	
			For Class 55 Rating, Add	1,665.95	
			For Class 56 Rating, Add	2,208.38	
40 05 19 00-0780	EA	14"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,661.27	708.88
			For Class 52 Rating, Deduct	-834.59	
			For Class 54 Rating, Add	1,150.97	
			For Class 55 Rating, Add	1,717.72	
			For Class 56 Rating, Add	2,276.89	
40 05 19 00-0781	EA	14"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,898.43	712.58
			For Class 52 Rating, Deduct	-860.06	
			For Class 54 Rating, Add	1,185.77	
			For Class 55 Rating, Add	1,769.50	
			For Class 56 Rating, Add	2,345.40	
40 05 19 00-0782	EA	14"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,135.59	716.26
			For Class 52 Rating, Deduct	-885.54	
			For Class 54 Rating, Add	1,220.57	
			For Class 55 Rating, Add	1,821.27	
			For Class 56 Rating, Add	2,413.92	
40 05 19 00-0783	EA	14"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,372.76	719.96
			For Class 52 Rating, Deduct	-911.01	
			For Class 54 Rating, Add	1,255.38	
			For Class 55 Rating, Add	1,873.05	
			For Class 56 Rating, Add	2,482.43	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,609.92	723.65
			For Class 52 Rating, Deduct	-936.48	
			For Class 54 Rating, Add	1,290.18	
			For Class 55 Rating, Add	1,924.82	
			For Class 56 Rating, Add	2,550.95	
40 05 19 00-0785	EA		14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,847.08	727.34
			For Class 52 Rating, Deduct	-961.96	
			For Class 54 Rating, Add	1,324.98	
			For Class 55 Rating, Add	1,976.59	
			For Class 56 Rating, Add	2,619.46	
40 05 19 00-0786	EA		14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,084.25	731.03
			For Class 52 Rating, Deduct	-987.43	
			For Class 54 Rating, Add	1,359.78	
			For Class 55 Rating, Add	2,028.37	
			For Class 56 Rating, Add	2,687.98	
40 05 19 00-0787	EA		14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,321.41	734.73
			For Class 52 Rating, Deduct	-1,012.90	
			For Class 54 Rating, Add	1,394.59	
			For Class 55 Rating, Add	2,080.14	
			For Class 56 Rating, Add	2,756.49	
40 05 19 00-0788	EA		14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,558.58	738.41
			For Class 52 Rating, Deduct	-1,038.37	
			For Class 54 Rating, Add	1,429.39	
			For Class 55 Rating, Add	2,131.92	
			For Class 56 Rating, Add	2,825.01	
40 05 19 00-0789	EA		14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,795.75	742.11
			For Class 52 Rating, Deduct	-1,063.85	
			For Class 54 Rating, Add	1,464.19	
			For Class 55 Rating, Add	2,183.69	
			For Class 56 Rating, Add	2,893.52	
40 05 19 00-0790	EA		14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,032.91	745.80
			For Class 52 Rating, Deduct	-1,089.32	
			For Class 54 Rating, Add	1,499.00	
			For Class 55 Rating, Add	2,235.47	
			For Class 56 Rating, Add	2,962.04	
40 05 19 00-0791	EA		14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,270.08	749.50
			For Class 52 Rating, Deduct	-1,114.79	
			For Class 54 Rating, Add	1,533.80	
			For Class 55 Rating, Add	2,287.24	
			For Class 56 Rating, Add	3,030.55	
40 05 19 00-0792	EA		14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,507.25	753.18
			For Class 52 Rating, Deduct	-1,140.27	
			For Class 54 Rating, Add	1,568.60	
			For Class 55 Rating, Add	2,339.02	
			For Class 56 Rating, Add	3,099.07	
40 05 19 00-0793	EA		14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,744.41	756.88
			For Class 52 Rating, Deduct	-1,165.74	
			For Class 54 Rating, Add	1,603.40	
			For Class 55 Rating, Add	2,390.79	
			For Class 56 Rating, Add	3,167.58	

40 05 19 00-0794 16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

40 05 19 00-0795	EA		16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,475.64	708.88
			For Class 52 Rating, Deduct	-264.17	
			For Class 54 Rating, Add	373.12	
			For Class 55 Rating, Add	561.33	
			For Class 56 Rating, Add	747.13	
40 05 19 00-0796	EA		16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,751.83	712.58
			For Class 52 Rating, Deduct	-293.94	
			For Class 54 Rating, Add	413.78	
			For Class 55 Rating, Add	621.81	
			For Class 56 Rating, Add	827.16	
40 05 19 00-0797	EA		16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,028.02	716.26
			For Class 52 Rating, Deduct	-323.70	
			For Class 54 Rating, Add	454.44	
			For Class 55 Rating, Add	682.28	
			For Class 56 Rating, Add	907.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0798	EA	16"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,304.22 -353.47 495.10 742.76 987.21	719.96
40 05 19 00-0799	EA	16"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,580.41 -383.24 535.75 803.24 1,067.24	723.65
40 05 19 00-0800	EA	16"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	4,856.60 -413.00 576.41 863.72 1,147.27	727.34
40 05 19 00-0801	EA	16"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,132.80 -442.77 617.07 924.20 1,227.30	731.03
40 05 19 00-0802	EA	16"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,408.99 -472.53 657.72 984.67 1,307.33	734.73
40 05 19 00-0803	EA	16"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,685.18 -502.30 698.38 1,045.15 1,387.36	738.41
40 05 19 00-0804	EA	16"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	5,935.36 -529.20 735.14 1,099.83 1,459.71	742.11
40 05 19 00-0805	EA	16"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,237.57 -561.63 779.70 1,166.11 1,547.41	745.80
40 05 19 00-0806	EA	16"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,513.77 -591.60 820.35 1,226.59 1,627.44	749.50
40 05 19 00-0807	EA	16"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,789.97 -621.36 861.01 1,287.06 1,707.47	753.18
40 05 19 00-0808	EA	16"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,066.16 -651.13 901.67 1,347.54 1,787.50	756.88
40 05 19 00-0809	EA	16"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,342.35 -680.90 942.32 1,408.02 1,867.53	760.57
40 05 19 00-0810	EA	16"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,618.55 -710.66 982.98 1,468.50 1,947.56	764.26
40 05 19 00-0811	EA	16"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,894.74 -740.43 1,023.64 1,528.98 2,027.58	767.95

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0812	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		8,170.93	771.65
		For Class 52 Rating, Deduct		-770.19	
		For Class 54 Rating, Add		1,064.30	
		For Class 55 Rating, Add		1,589.45	
		For Class 56 Rating, Add		2,107.61	
40 05 19 00-0813	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		8,447.13	775.34
		For Class 52 Rating, Deduct		-799.96	
		For Class 54 Rating, Add		1,104.95	
		For Class 55 Rating, Add		1,649.93	
		For Class 56 Rating, Add		2,187.64	
40 05 19 00-0814	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		8,723.32	779.03
		For Class 52 Rating, Deduct		-829.73	
		For Class 54 Rating, Add		1,145.61	
		For Class 55 Rating, Add		1,710.41	
		For Class 56 Rating, Add		2,267.67	
40 05 19 00-0815	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		8,999.51	782.72
		For Class 52 Rating, Deduct		-859.49	
		For Class 54 Rating, Add		1,186.27	
		For Class 55 Rating, Add		1,770.89	
		For Class 56 Rating, Add		2,347.70	
40 05 19 00-0816	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		9,275.71	786.42
		For Class 52 Rating, Deduct		-889.26	
		For Class 54 Rating, Add		1,226.92	
		For Class 55 Rating, Add		1,831.37	
		For Class 56 Rating, Add		2,427.73	
40 05 19 00-0817	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		9,551.90	790.10
		For Class 52 Rating, Deduct		-919.02	
		For Class 54 Rating, Add		1,267.58	
		For Class 55 Rating, Add		1,891.84	
		For Class 56 Rating, Add		2,507.75	
40 05 19 00-0818	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		9,828.08	793.80
		For Class 52 Rating, Deduct		-948.79	
		For Class 54 Rating, Add		1,308.24	
		For Class 55 Rating, Add		1,952.32	
		For Class 56 Rating, Add		2,587.78	
40 05 19 00-0819	EA		16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		10,104.28	797.49
		For Class 52 Rating, Deduct		-978.56	
		For Class 54 Rating, Add		1,348.89	
		For Class 55 Rating, Add		2,012.80	
		For Class 56 Rating, Add		2,667.81	
40 05 19 00-0820	EA		16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		10,380.48	801.18
		For Class 52 Rating, Deduct		-1,008.32	
		For Class 54 Rating, Add		1,389.55	
		For Class 55 Rating, Add		2,073.28	
		For Class 56 Rating, Add		2,747.84	
40 05 19 00-0821	EA		16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		10,656.67	804.87
		For Class 52 Rating, Deduct		-1,038.09	
		For Class 54 Rating, Add		1,430.21	
		For Class 55 Rating, Add		2,133.75	
		For Class 56 Rating, Add		2,827.86	
40 05 19 00-0822	EA		16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		10,932.87	808.57
		For Class 52 Rating, Deduct		-1,067.85	
		For Class 54 Rating, Add		1,470.87	
		For Class 55 Rating, Add		2,194.23	
		For Class 56 Rating, Add		2,907.89	
40 05 19 00-0823	EA		16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		11,209.06	812.26
		For Class 52 Rating, Deduct		-1,097.62	
		For Class 54 Rating, Add		1,511.52	
		For Class 55 Rating, Add		2,254.71	
		For Class 56 Rating, Add		2,987.92	
40 05 19 00-0824	EA		16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		11,485.25	815.95
		For Class 52 Rating, Deduct		-1,127.39	
		For Class 54 Rating, Add		1,552.18	
		For Class 55 Rating, Add		2,315.19	
		For Class 56 Rating, Add		3,067.95	
40 05 19 00-0825	EA		16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
		Pipe		11,761.45	819.64
		For Class 52 Rating, Deduct		-1,157.15	
		For Class 54 Rating, Add		1,592.84	
		For Class 55 Rating, Add		2,375.67	
		For Class 56 Rating, Add		3,147.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0826	EA	16"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,037.64	823.34
			For Class 52 Rating, Deduct	-1,186.92	
			For Class 54 Rating, Add	1,633.49	
			For Class 55 Rating, Add	2,436.15	
			For Class 56 Rating, Add	3,228.01	
40 05 19 00-0827	EA	16"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,313.83	827.02
			For Class 52 Rating, Deduct	-1,216.68	
			For Class 54 Rating, Add	1,674.15	
			For Class 55 Rating, Add	2,496.62	
			For Class 56 Rating, Add	3,308.03	
40 05 19 00-0828	EA	16"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,590.03	830.72
			For Class 52 Rating, Deduct	-1,246.45	
			For Class 54 Rating, Add	1,714.81	
			For Class 55 Rating, Add	2,557.10	
			For Class 56 Rating, Add	3,388.06	
40 05 19 00-0829	EA	16"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,866.22	834.41
			For Class 52 Rating, Deduct	-1,276.22	
			For Class 54 Rating, Add	1,755.47	
			For Class 55 Rating, Add	2,617.58	
			For Class 56 Rating, Add	3,468.09	
40 05 19 00-0830	EA	16"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,142.41	838.11
			For Class 52 Rating, Deduct	-1,305.98	
			For Class 54 Rating, Add	1,796.12	
			For Class 55 Rating, Add	2,678.06	
			For Class 56 Rating, Add	3,548.12	
40 05 19 00-0831	EA	16"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,418.61	841.79
			For Class 52 Rating, Deduct	-1,335.75	
			For Class 54 Rating, Add	1,836.78	
			For Class 55 Rating, Add	2,738.54	
			For Class 56 Rating, Add	3,628.15	
40 05 19 00-0832	EA	16"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,694.80	845.49
			For Class 52 Rating, Deduct	-1,365.51	
			For Class 54 Rating, Add	1,877.44	
			For Class 55 Rating, Add	2,799.01	
			For Class 56 Rating, Add	3,708.18	
40 05 19 00-0833			18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0834	EA	18"	Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,059.66	798.98
			For Class 52 Rating, Deduct	-313.40	
			For Class 54 Rating, Add	441.89	
			For Class 55 Rating, Add	664.40	
			For Class 56 Rating, Add	884.06	
40 05 19 00-0835	EA	18"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,377.48	802.66
			For Class 52 Rating, Deduct	-347.75	
			For Class 54 Rating, Add	488.79	
			For Class 55 Rating, Add	734.16	
			For Class 56 Rating, Add	976.37	
40 05 19 00-0836	EA	18"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,695.31	806.36
			For Class 52 Rating, Deduct	-382.09	
			For Class 54 Rating, Add	535.70	
			For Class 55 Rating, Add	803.93	
			For Class 56 Rating, Add	1,068.68	
40 05 19 00-0837	EA	18"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,013.13	810.05
			For Class 52 Rating, Deduct	-416.44	
			For Class 54 Rating, Add	582.60	
			For Class 55 Rating, Add	873.69	
			For Class 56 Rating, Add	1,160.99	
40 05 19 00-0838	EA	18"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,330.95	813.74
			For Class 52 Rating, Deduct	-450.78	
			For Class 54 Rating, Add	629.50	
			For Class 55 Rating, Add	943.45	
			For Class 56 Rating, Add	1,253.30	
40 05 19 00-0839	EA	18"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,648.78	817.43
			For Class 52 Rating, Deduct	-485.13	
			For Class 54 Rating, Add	676.40	
			For Class 55 Rating, Add	1,013.21	
			For Class 56 Rating, Add	1,345.61	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0840	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,966.60	821.13
			For Class 52 Rating, Deduct	-519.47	
			For Class 54 Rating, Add	723.30	
			For Class 55 Rating, Add	1,082.97	
			For Class 56 Rating, Add	1,437.92	
40 05 19 00-0841	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,284.43	824.82
			For Class 52 Rating, Deduct	-553.82	
			For Class 54 Rating, Add	770.20	
			For Class 55 Rating, Add	1,152.74	
			For Class 56 Rating, Add	1,530.23	
40 05 19 00-0842	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,602.26	828.51
			For Class 52 Rating, Deduct	-588.16	
			For Class 54 Rating, Add	817.11	
			For Class 55 Rating, Add	1,222.50	
			For Class 56 Rating, Add	1,622.54	
40 05 19 00-0843	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,920.09	832.20
			For Class 52 Rating, Deduct	-622.51	
			For Class 54 Rating, Add	864.01	
			For Class 55 Rating, Add	1,292.26	
			For Class 56 Rating, Add	1,714.85	
40 05 19 00-0844	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,237.91	835.90
			For Class 52 Rating, Deduct	-656.86	
			For Class 54 Rating, Add	910.91	
			For Class 55 Rating, Add	1,362.02	
			For Class 56 Rating, Add	1,807.16	
40 05 19 00-0845	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,555.74	839.58
			For Class 52 Rating, Deduct	-691.20	
			For Class 54 Rating, Add	957.81	
			For Class 55 Rating, Add	1,431.78	
			For Class 56 Rating, Add	1,899.47	
40 05 19 00-0846	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,873.56	843.28
			For Class 52 Rating, Deduct	-725.55	
			For Class 54 Rating, Add	1,004.71	
			For Class 55 Rating, Add	1,501.54	
			For Class 56 Rating, Add	1,991.78	
40 05 19 00-0847	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,191.38	846.97
			For Class 52 Rating, Deduct	-759.89	
			For Class 54 Rating, Add	1,051.61	
			For Class 55 Rating, Add	1,571.31	
			For Class 56 Rating, Add	2,084.09	
40 05 19 00-0848	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,509.21	850.66
			For Class 52 Rating, Deduct	-794.24	
			For Class 54 Rating, Add	1,098.52	
			For Class 55 Rating, Add	1,641.07	
			For Class 56 Rating, Add	2,176.40	
40 05 19 00-0849	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,827.03	854.35
			For Class 52 Rating, Deduct	-828.58	
			For Class 54 Rating, Add	1,145.42	
			For Class 55 Rating, Add	1,710.83	
			For Class 56 Rating, Add	2,268.71	
40 05 19 00-0850	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,144.85	858.05
			For Class 52 Rating, Deduct	-862.93	
			For Class 54 Rating, Add	1,192.32	
			For Class 55 Rating, Add	1,780.59	
			For Class 56 Rating, Add	2,361.02	
40 05 19 00-0851	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,462.68	861.74
			For Class 52 Rating, Deduct	-897.27	
			For Class 54 Rating, Add	1,239.22	
			For Class 55 Rating, Add	1,850.35	
			For Class 56 Rating, Add	2,453.32	
40 05 19 00-0852	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,780.50	865.43
			For Class 52 Rating, Deduct	-931.62	
			For Class 54 Rating, Add	1,286.12	
			For Class 55 Rating, Add	1,920.11	
			For Class 56 Rating, Add	2,545.63	
40 05 19 00-0853	EA		18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,098.32	869.12
			For Class 52 Rating, Deduct	-965.96	
			For Class 54 Rating, Add	1,333.02	
			For Class 55 Rating, Add	1,989.87	
			For Class 56 Rating, Add	2,637.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0854	EA	18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,416.15	872.82
		For Class 52 Rating, Deduct		-1,000.31	
		For Class 54 Rating, Add		1,379.93	
		For Class 55 Rating, Add		2,059.64	
		For Class 56 Rating, Add		2,730.25	
40 05 19 00-0855	EA	18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,733.97	876.50
		For Class 52 Rating, Deduct		-1,034.65	
		For Class 54 Rating, Add		1,426.83	
		For Class 55 Rating, Add		2,129.40	
		For Class 56 Rating, Add		2,822.56	
40 05 19 00-0856	EA	18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,051.79	880.20
		For Class 52 Rating, Deduct		-1,069.00	
		For Class 54 Rating, Add		1,473.73	
		For Class 55 Rating, Add		2,199.16	
		For Class 56 Rating, Add		2,914.87	
40 05 19 00-0857	EA	18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,369.63	883.89
		For Class 52 Rating, Deduct		-1,103.34	
		For Class 54 Rating, Add		1,520.63	
		For Class 55 Rating, Add		2,268.92	
		For Class 56 Rating, Add		3,007.18	
40 05 19 00-0858	EA	18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,687.45	887.59
		For Class 52 Rating, Deduct		-1,137.69	
		For Class 54 Rating, Add		1,567.53	
		For Class 55 Rating, Add		2,338.68	
		For Class 56 Rating, Add		3,099.49	
40 05 19 00-0859	EA	18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,005.27	891.27
		For Class 52 Rating, Deduct		-1,172.03	
		For Class 54 Rating, Add		1,614.43	
		For Class 55 Rating, Add		2,408.44	
		For Class 56 Rating, Add		3,191.80	
40 05 19 00-0860	EA	18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,323.10	894.97
		For Class 52 Rating, Deduct		-1,206.38	
		For Class 54 Rating, Add		1,661.34	
		For Class 55 Rating, Add		2,478.21	
		For Class 56 Rating, Add		3,284.11	
40 05 19 00-0861	EA	18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,640.92	898.66
		For Class 52 Rating, Deduct		-1,240.73	
		For Class 54 Rating, Add		1,708.24	
		For Class 55 Rating, Add		2,547.97	
		For Class 56 Rating, Add		3,376.42	
40 05 19 00-0862	EA	18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,958.74	902.35
		For Class 52 Rating, Deduct		-1,275.07	
		For Class 54 Rating, Add		1,755.14	
		For Class 55 Rating, Add		2,617.73	
		For Class 56 Rating, Add		3,468.73	
40 05 19 00-0863	EA	18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,276.57	906.04
		For Class 52 Rating, Deduct		-1,309.42	
		For Class 54 Rating, Add		1,802.04	
		For Class 55 Rating, Add		2,687.49	
		For Class 56 Rating, Add		3,561.04	
40 05 19 00-0864	EA	18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,594.39	909.74
		For Class 52 Rating, Deduct		-1,343.76	
		For Class 54 Rating, Add		1,848.94	
		For Class 55 Rating, Add		2,757.25	
		For Class 56 Rating, Add		3,653.34	
40 05 19 00-0865	EA	18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,912.21	913.42
		For Class 52 Rating, Deduct		-1,378.11	
		For Class 54 Rating, Add		1,895.84	
		For Class 55 Rating, Add		2,827.01	
		For Class 56 Rating, Add		3,745.65	
40 05 19 00-0866	EA	18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,230.05	917.12
		For Class 52 Rating, Deduct		-1,412.45	
		For Class 54 Rating, Add		1,942.75	
		For Class 55 Rating, Add		2,896.78	
		For Class 56 Rating, Add		3,837.97	
40 05 19 00-0867	EA	18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,547.87	920.81
		For Class 52 Rating, Deduct		-1,446.80	
		For Class 54 Rating, Add		1,989.65	
		For Class 55 Rating, Add		2,966.54	
		For Class 56 Rating, Add		3,930.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0868	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,865.69	924.51
		For Class 52 Rating, Deduct		-1,481.14	
		For Class 54 Rating, Add		2,036.55	
		For Class 55 Rating, Add		3,036.30	
		For Class 56 Rating, Add		4,022.58	
40 05 19 00-0869	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,183.52	928.19
		For Class 52 Rating, Deduct		-1,515.49	
		For Class 54 Rating, Add		2,083.45	
		For Class 55 Rating, Add		3,106.06	
		For Class 56 Rating, Add		4,114.89	
40 05 19 00-0870	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,501.34	931.89
		For Class 52 Rating, Deduct		-1,549.83	
		For Class 54 Rating, Add		2,130.35	
		For Class 55 Rating, Add		3,175.82	
		For Class 56 Rating, Add		4,207.20	
40 05 19 00-0871	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,819.17	935.58
		For Class 52 Rating, Deduct		-1,584.18	
		For Class 54 Rating, Add		2,177.25	
		For Class 55 Rating, Add		3,245.58	
		For Class 56 Rating, Add		4,299.51	
40 05 19 00-0872		20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)			
40 05 19 00-0873	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,709.60	911.95
		For Class 52 Rating, Deduct		-366.06	
		For Class 54 Rating, Add		515.76	
		For Class 55 Rating, Add		775.27	
		For Class 56 Rating, Add		1,031.46	
40 05 19 00-0874	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,074.25	915.63
		For Class 52 Rating, Deduct		-405.56	
		For Class 54 Rating, Add		569.69	
		For Class 55 Rating, Add		855.48	
		For Class 56 Rating, Add		1,137.59	
40 05 19 00-0875	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,438.92	919.33
		For Class 52 Rating, Deduct		-445.06	
		For Class 54 Rating, Add		623.61	
		For Class 55 Rating, Add		935.69	
		For Class 56 Rating, Add		1,243.71	
40 05 19 00-0876	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,803.57	923.02
		For Class 52 Rating, Deduct		-484.56	
		For Class 54 Rating, Add		677.54	
		For Class 55 Rating, Add		1,015.89	
		For Class 56 Rating, Add		1,349.84	
40 05 19 00-0877	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,168.23	926.72
		For Class 52 Rating, Deduct		-524.05	
		For Class 54 Rating, Add		731.47	
		For Class 55 Rating, Add		1,096.10	
		For Class 56 Rating, Add		1,455.96	
40 05 19 00-0878	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,532.89	930.40
		For Class 52 Rating, Deduct		-563.55	
		For Class 54 Rating, Add		785.39	
		For Class 55 Rating, Add		1,176.30	
		For Class 56 Rating, Add		1,562.09	
40 05 19 00-0879	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,897.55	934.10
		For Class 52 Rating, Deduct		-603.05	
		For Class 54 Rating, Add		839.32	
		For Class 55 Rating, Add		1,256.51	
		For Class 56 Rating, Add		1,668.21	
40 05 19 00-0880	EA	20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,262.20	937.79
		For Class 52 Rating, Deduct		-642.54	
		For Class 54 Rating, Add		893.25	
		For Class 55 Rating, Add		1,336.71	
		For Class 56 Rating, Add		1,774.34	
40 05 19 00-0881	EA	20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,626.87	941.48
		For Class 52 Rating, Deduct		-682.04	
		For Class 54 Rating, Add		947.17	
		For Class 55 Rating, Add		1,416.92	
		For Class 56 Rating, Add		1,880.47	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0882	EA	20"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,991.52	945.17
			For Class 52 Rating, Deduct	-721.54	
			For Class 54 Rating, Add	1,001.10	
			For Class 55 Rating, Add	1,497.13	
			For Class 56 Rating, Add	1,986.59	
40 05 19 00-0883	EA	20"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,356.18	948.87
			For Class 52 Rating, Deduct	-761.04	
			For Class 54 Rating, Add	1,055.03	
			For Class 55 Rating, Add	1,577.33	
			For Class 56 Rating, Add	2,092.72	
40 05 19 00-0884	EA	20"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,720.84	952.55
			For Class 52 Rating, Deduct	-800.53	
			For Class 54 Rating, Add	1,108.95	
			For Class 55 Rating, Add	1,657.54	
			For Class 56 Rating, Add	2,198.84	
40 05 19 00-0885	EA	20"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,085.51	956.25
			For Class 52 Rating, Deduct	-840.03	
			For Class 54 Rating, Add	1,162.88	
			For Class 55 Rating, Add	1,737.74	
			For Class 56 Rating, Add	2,304.97	
40 05 19 00-0886	EA	20"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,450.16	959.94
			For Class 52 Rating, Deduct	-879.53	
			For Class 54 Rating, Add	1,216.81	
			For Class 55 Rating, Add	1,817.95	
			For Class 56 Rating, Add	2,411.09	
40 05 19 00-0887	EA	20"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,814.83	963.64
			For Class 52 Rating, Deduct	-919.02	
			For Class 54 Rating, Add	1,270.74	
			For Class 55 Rating, Add	1,898.16	
			For Class 56 Rating, Add	2,517.22	
40 05 19 00-0888	EA	20"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,179.48	967.32
			For Class 52 Rating, Deduct	-958.52	
			For Class 54 Rating, Add	1,324.66	
			For Class 55 Rating, Add	1,978.36	
			For Class 56 Rating, Add	2,623.34	
40 05 19 00-0889	EA	20"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,544.14	971.02
			For Class 52 Rating, Deduct	-998.02	
			For Class 54 Rating, Add	1,378.59	
			For Class 55 Rating, Add	2,058.57	
			For Class 56 Rating, Add	2,729.47	
40 05 19 00-0890	EA	20"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,908.80	974.71
			For Class 52 Rating, Deduct	-1,037.52	
			For Class 54 Rating, Add	1,432.52	
			For Class 55 Rating, Add	2,138.77	
			For Class 56 Rating, Add	2,835.59	
40 05 19 00-0891	EA	20"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,273.45	978.40
			For Class 52 Rating, Deduct	-1,077.01	
			For Class 54 Rating, Add	1,486.44	
			For Class 55 Rating, Add	2,218.98	
			For Class 56 Rating, Add	2,941.72	
40 05 19 00-0892	EA	20"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,638.11	982.09
			For Class 52 Rating, Deduct	-1,116.51	
			For Class 54 Rating, Add	1,540.37	
			For Class 55 Rating, Add	2,299.18	
			For Class 56 Rating, Add	3,047.85	
40 05 19 00-0893	EA	20"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,002.77	985.79
			For Class 52 Rating, Deduct	-1,156.01	
			For Class 54 Rating, Add	1,594.30	
			For Class 55 Rating, Add	2,379.39	
			For Class 56 Rating, Add	3,153.97	
40 05 19 00-0894	EA	20"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,367.43	989.48
			For Class 52 Rating, Deduct	-1,195.50	
			For Class 54 Rating, Add	1,648.22	
			For Class 55 Rating, Add	2,459.59	
			For Class 56 Rating, Add	3,260.10	
40 05 19 00-0895	EA	20"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,732.08	993.17
			For Class 52 Rating, Deduct	-1,235.00	
			For Class 54 Rating, Add	1,702.15	
			For Class 55 Rating, Add	2,539.80	
			For Class 56 Rating, Add	3,366.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0896	EA		20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	13,096.75	996.86
			For Class 52 Rating, Deduct	-1,274.50	
			For Class 54 Rating, Add	1,756.08	
			For Class 55 Rating, Add	2,620.01	
			For Class 56 Rating, Add	3,472.35	
40 05 19 00-0897	EA		20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	13,461.40	1,000.56
			For Class 52 Rating, Deduct	-1,314.00	
			For Class 54 Rating, Add	1,810.00	
			For Class 55 Rating, Add	2,700.21	
			For Class 56 Rating, Add	3,578.47	
40 05 19 00-0898	EA		20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	13,826.07	1,004.24
			For Class 52 Rating, Deduct	-1,353.49	
			For Class 54 Rating, Add	1,863.93	
			For Class 55 Rating, Add	2,780.42	
			For Class 56 Rating, Add	3,684.60	
40 05 19 00-0899	EA		20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	14,190.73	1,007.94
			For Class 52 Rating, Deduct	-1,392.99	
			For Class 54 Rating, Add	1,917.86	
			For Class 55 Rating, Add	2,860.62	
			For Class 56 Rating, Add	3,790.72	
40 05 19 00-0900	EA		20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	14,555.39	1,011.63
			For Class 52 Rating, Deduct	-1,432.49	
			For Class 54 Rating, Add	1,971.78	
			For Class 55 Rating, Add	2,940.83	
			For Class 56 Rating, Add	3,896.85	
40 05 19 00-0901	EA		20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	14,920.04	1,015.33
			For Class 52 Rating, Deduct	-1,471.98	
			For Class 54 Rating, Add	2,025.71	
			For Class 55 Rating, Add	3,021.03	
			For Class 56 Rating, Add	4,002.97	
40 05 19 00-0902	EA		20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	15,284.71	1,019.01
			For Class 52 Rating, Deduct	-1,511.48	
			For Class 54 Rating, Add	2,079.64	
			For Class 55 Rating, Add	3,101.24	
			For Class 56 Rating, Add	4,109.10	
40 05 19 00-0903	EA		20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	15,649.36	1,022.71
			For Class 52 Rating, Deduct	-1,550.98	
			For Class 54 Rating, Add	2,133.56	
			For Class 55 Rating, Add	3,181.44	
			For Class 56 Rating, Add	4,215.23	
40 05 19 00-0904	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	16,014.02	1,026.40
			For Class 52 Rating, Deduct	-1,590.48	
			For Class 54 Rating, Add	2,187.49	
			For Class 55 Rating, Add	3,261.65	
			For Class 56 Rating, Add	4,321.35	
40 05 19 00-0905	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	16,378.68	1,030.09
			For Class 52 Rating, Deduct	-1,629.97	
			For Class 54 Rating, Add	2,241.42	
			For Class 55 Rating, Add	3,341.86	
			For Class 56 Rating, Add	4,427.48	
40 05 19 00-0906	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	16,743.34	1,033.78
			For Class 52 Rating, Deduct	-1,669.47	
			For Class 54 Rating, Add	2,295.35	
			For Class 55 Rating, Add	3,422.06	
			For Class 56 Rating, Add	4,533.60	
40 05 19 00-0907	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	17,107.99	1,037.48
			For Class 52 Rating, Deduct	-1,708.97	
			For Class 54 Rating, Add	2,349.27	
			For Class 55 Rating, Add	3,502.27	
			For Class 56 Rating, Add	4,639.73	
40 05 19 00-0908	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	17,472.66	1,041.17
			For Class 52 Rating, Deduct	-1,748.46	
			For Class 54 Rating, Add	2,403.20	
			For Class 55 Rating, Add	3,582.47	
			For Class 56 Rating, Add	4,745.85	
40 05 19 00-0909	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	17,837.31	1,044.86
			For Class 52 Rating, Deduct	-1,787.96	
			For Class 54 Rating, Add	2,457.13	
			For Class 55 Rating, Add	3,662.68	
			For Class 56 Rating, Add	4,851.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0910	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,201.97	1,048.55
			For Class 52 Rating, Deduct	-1,827.46	
			For Class 54 Rating, Add	2,511.05	
			For Class 55 Rating, Add	3,742.89	
			For Class 56 Rating, Add	4,958.11	
40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0912	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,838.17	1,078.10
			For Class 52 Rating, Deduct	-462.52	
			For Class 54 Rating, Add	650.31	
			For Class 55 Rating, Add	976.85	
			For Class 56 Rating, Add	1,299.19	
40 05 19 00-0913	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,288.69	1,081.78
			For Class 52 Rating, Deduct	-511.46	
			For Class 54 Rating, Add	717.11	
			For Class 55 Rating, Add	1,076.20	
			For Class 56 Rating, Add	1,430.65	
40 05 19 00-0914	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,739.22	1,085.48
			For Class 52 Rating, Deduct	-560.40	
			For Class 54 Rating, Add	783.92	
			For Class 55 Rating, Add	1,175.56	
			For Class 56 Rating, Add	1,562.10	
40 05 19 00-0915	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,189.74	1,089.17
			For Class 52 Rating, Deduct	-609.34	
			For Class 54 Rating, Add	850.73	
			For Class 55 Rating, Add	1,274.91	
			For Class 56 Rating, Add	1,693.56	
40 05 19 00-0916	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,640.26	1,092.86
			For Class 52 Rating, Deduct	-658.29	
			For Class 54 Rating, Add	917.53	
			For Class 55 Rating, Add	1,374.27	
			For Class 56 Rating, Add	1,825.01	
40 05 19 00-0917	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,090.78	1,096.55
			For Class 52 Rating, Deduct	-707.23	
			For Class 54 Rating, Add	984.34	
			For Class 55 Rating, Add	1,473.62	
			For Class 56 Rating, Add	1,956.47	
40 05 19 00-0918	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,541.30	1,100.25
			For Class 52 Rating, Deduct	-756.17	
			For Class 54 Rating, Add	1,051.14	
			For Class 55 Rating, Add	1,572.97	
			For Class 56 Rating, Add	2,087.92	
40 05 19 00-0919	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,991.82	1,103.93
			For Class 52 Rating, Deduct	-805.11	
			For Class 54 Rating, Add	1,117.95	
			For Class 55 Rating, Add	1,672.32	
			For Class 56 Rating, Add	2,219.38	
40 05 19 00-0920	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,442.36	1,107.63
			For Class 52 Rating, Deduct	-854.05	
			For Class 54 Rating, Add	1,184.76	
			For Class 55 Rating, Add	1,771.68	
			For Class 56 Rating, Add	2,350.83	
40 05 19 00-0921	EA		24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,892.88	1,111.32
			For Class 52 Rating, Deduct	-903.00	
			For Class 54 Rating, Add	1,251.56	
			For Class 55 Rating, Add	1,871.03	
			For Class 56 Rating, Add	2,482.29	
40 05 19 00-0922	EA		24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,343.40	1,115.02
			For Class 52 Rating, Deduct	-951.94	
			For Class 54 Rating, Add	1,318.37	
			For Class 55 Rating, Add	1,970.39	
			For Class 56 Rating, Add	2,613.75	
40 05 19 00-0923	EA		24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,793.92	1,118.70
			For Class 52 Rating, Deduct	-1,000.88	
			For Class 54 Rating, Add	1,385.18	
			For Class 55 Rating, Add	2,069.74	
			For Class 56 Rating, Add	2,745.20	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0924	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,244.44	1,122.40
		For Class 52 Rating, Deduct	-1,049.82	
		For Class 54 Rating, Add	1,451.98	
		For Class 55 Rating, Add	2,169.09	
		For Class 56 Rating, Add	2,876.65	
40 05 19 00-0925	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,694.96	1,126.09
		For Class 52 Rating, Deduct	-1,098.76	
		For Class 54 Rating, Add	1,518.79	
		For Class 55 Rating, Add	2,268.44	
		For Class 56 Rating, Add	3,008.11	
40 05 19 00-0926	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,145.49	1,129.78
		For Class 52 Rating, Deduct	-1,147.71	
		For Class 54 Rating, Add	1,585.60	
		For Class 55 Rating, Add	2,367.80	
		For Class 56 Rating, Add	3,139.57	
40 05 19 00-0927	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,596.01	1,133.47
		For Class 52 Rating, Deduct	-1,196.65	
		For Class 54 Rating, Add	1,652.40	
		For Class 55 Rating, Add	2,467.15	
		For Class 56 Rating, Add	3,271.02	
40 05 19 00-0928	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,046.53	1,137.17
		For Class 52 Rating, Deduct	-1,245.59	
		For Class 54 Rating, Add	1,719.21	
		For Class 55 Rating, Add	2,566.51	
		For Class 56 Rating, Add	3,402.48	
40 05 19 00-0929	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,497.05	1,140.86
		For Class 52 Rating, Deduct	-1,294.53	
		For Class 54 Rating, Add	1,786.01	
		For Class 55 Rating, Add	2,665.86	
		For Class 56 Rating, Add	3,533.93	
40 05 19 00-0930	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,947.57	1,144.55
		For Class 52 Rating, Deduct	-1,343.48	
		For Class 54 Rating, Add	1,852.82	
		For Class 55 Rating, Add	2,765.21	
		For Class 56 Rating, Add	3,665.39	
40 05 19 00-0931	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,398.09	1,148.24
		For Class 52 Rating, Deduct	-1,392.42	
		For Class 54 Rating, Add	1,919.63	
		For Class 55 Rating, Add	2,864.56	
		For Class 56 Rating, Add	3,796.84	
40 05 19 00-0932	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,848.62	1,151.94
		For Class 52 Rating, Deduct	-1,441.36	
		For Class 54 Rating, Add	1,986.43	
		For Class 55 Rating, Add	2,963.92	
		For Class 56 Rating, Add	3,928.30	
40 05 19 00-0933	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,299.14	1,155.62
		For Class 52 Rating, Deduct	-1,490.30	
		For Class 54 Rating, Add	2,053.24	
		For Class 55 Rating, Add	3,063.27	
		For Class 56 Rating, Add	4,059.75	
40 05 19 00-0934	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,749.68	1,159.32
		For Class 52 Rating, Deduct	-1,539.24	
		For Class 54 Rating, Add	2,120.05	
		For Class 55 Rating, Add	3,162.63	
		For Class 56 Rating, Add	4,191.21	
40 05 19 00-0935	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,200.19	1,163.01
		For Class 52 Rating, Deduct	-1,588.19	
		For Class 54 Rating, Add	2,186.85	
		For Class 55 Rating, Add	3,261.98	
		For Class 56 Rating, Add	4,322.66	
40 05 19 00-0936	EA	24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,650.71	1,166.71
		For Class 52 Rating, Deduct	-1,637.13	
		For Class 54 Rating, Add	2,253.66	
		For Class 55 Rating, Add	3,361.33	
		For Class 56 Rating, Add	4,454.12	
40 05 19 00-0937	EA	24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,101.24	1,170.39
		For Class 52 Rating, Deduct	-1,686.07	
		For Class 54 Rating, Add	2,320.47	
		For Class 55 Rating, Add	3,460.68	
		For Class 56 Rating, Add	4,585.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938	EA		24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	17,551.76	1,174.09
			For Class 52 Rating, Deduct	-1,735.01	
			For Class 54 Rating, Add	2,387.27	
			For Class 55 Rating, Add	3,560.04	
			For Class 56 Rating, Add	4,717.03	
40 05 19 00-0939	EA		24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	18,002.28	1,177.78
			For Class 52 Rating, Deduct	-1,783.95	
			For Class 54 Rating, Add	2,454.08	
			For Class 55 Rating, Add	3,659.39	
			For Class 56 Rating, Add	4,848.48	
40 05 19 00-0940	EA		24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	18,452.81	1,181.47
			For Class 52 Rating, Deduct	-1,832.90	
			For Class 54 Rating, Add	2,520.89	
			For Class 55 Rating, Add	3,758.74	
			For Class 56 Rating, Add	4,979.94	
40 05 19 00-0941	EA		24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	18,998.42	1,247.93
			For Class 52 Rating, Deduct	-1,881.84	
			For Class 54 Rating, Add	2,588.83	
			For Class 55 Rating, Add	3,860.38	
			For Class 56 Rating, Add	5,114.82	
40 05 19 00-0942	EA		24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	19,448.94	1,251.62
			For Class 52 Rating, Deduct	-1,930.78	
			For Class 54 Rating, Add	2,655.64	
			For Class 55 Rating, Add	3,959.73	
			For Class 56 Rating, Add	5,246.27	
40 05 19 00-0943	EA		24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	19,899.46	1,255.31
			For Class 52 Rating, Deduct	-1,979.72	
			For Class 54 Rating, Add	2,722.45	
			For Class 55 Rating, Add	4,059.09	
			For Class 56 Rating, Add	5,377.73	
40 05 19 00-0944	EA		24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	20,349.99	1,259.00
			For Class 52 Rating, Deduct	-2,028.67	
			For Class 54 Rating, Add	2,789.25	
			For Class 55 Rating, Add	4,158.44	
			For Class 56 Rating, Add	5,509.18	
40 05 19 00-0945	EA		24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	20,800.52	1,262.70
			For Class 52 Rating, Deduct	-2,077.61	
			For Class 54 Rating, Add	2,856.06	
			For Class 55 Rating, Add	4,257.79	
			For Class 56 Rating, Add	5,640.64	
40 05 19 00-0946	EA		24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	21,251.04	1,266.39
			For Class 52 Rating, Deduct	-2,126.55	
			For Class 54 Rating, Add	2,922.87	
			For Class 55 Rating, Add	4,357.15	
			For Class 56 Rating, Add	5,772.10	
40 05 19 00-0947	EA		24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	21,701.56	1,270.08
			For Class 52 Rating, Deduct	-2,175.49	
			For Class 54 Rating, Add	2,989.67	
			For Class 55 Rating, Add	4,456.50	
			For Class 56 Rating, Add	5,903.55	
40 05 19 00-0948	EA		24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	22,152.08	1,273.77
			For Class 52 Rating, Deduct	-2,224.43	
			For Class 54 Rating, Add	3,056.48	
			For Class 55 Rating, Add	4,555.85	
			For Class 56 Rating, Add	6,035.00	
40 05 19 00-0949	EA		24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	22,602.60	1,277.47
			For Class 52 Rating, Deduct	-2,273.38	
			For Class 54 Rating, Add	3,123.28	
			For Class 55 Rating, Add	4,655.21	
			For Class 56 Rating, Add	6,166.46	
40 05 19 00-0950			30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0951	EA		30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	9,017.71	1,521.14
			For Class 52 Rating, Deduct	-738.42	
			For Class 54 Rating, Add	1,034.60	
			For Class 55 Rating, Add	1,552.30	
			For Class 56 Rating, Add	2,063.29	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0952	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,665.99	1,524.83
		For Class 52 Rating, Deduct		-809.12	
		For Class 54 Rating, Add		1,131.07	
		For Class 55 Rating, Add		1,695.75	
		For Class 56 Rating, Add		2,253.08	
40 05 19 00-0953	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,314.25	1,528.53
		For Class 52 Rating, Deduct		-879.81	
		For Class 54 Rating, Add		1,227.54	
		For Class 55 Rating, Add		1,839.20	
		For Class 56 Rating, Add		2,442.87	
40 05 19 00-0954	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,962.52	1,532.22
		For Class 52 Rating, Deduct		-950.51	
		For Class 54 Rating, Add		1,324.01	
		For Class 55 Rating, Add		1,982.66	
		For Class 56 Rating, Add		2,632.66	
40 05 19 00-0955	EA	30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,610.79	1,535.91
		For Class 52 Rating, Deduct		-1,021.20	
		For Class 54 Rating, Add		1,420.47	
		For Class 55 Rating, Add		2,126.11	
		For Class 56 Rating, Add		2,822.45	
40 05 19 00-0956	EA	30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,259.05	1,539.60
		For Class 52 Rating, Deduct		-1,091.90	
		For Class 54 Rating, Add		1,516.94	
		For Class 55 Rating, Add		2,269.55	
		For Class 56 Rating, Add		3,012.24	
40 05 19 00-0957	EA	30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,907.32	1,543.30
		For Class 52 Rating, Deduct		-1,162.59	
		For Class 54 Rating, Add		1,613.41	
		For Class 55 Rating, Add		2,413.01	
		For Class 56 Rating, Add		3,202.03	
40 05 19 00-0958	EA	30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,555.59	1,546.98
		For Class 52 Rating, Deduct		-1,233.28	
		For Class 54 Rating, Add		1,709.88	
		For Class 55 Rating, Add		2,556.46	
		For Class 56 Rating, Add		3,391.82	
40 05 19 00-0959	EA	30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,203.86	1,550.68
		For Class 52 Rating, Deduct		-1,303.98	
		For Class 54 Rating, Add		1,806.35	
		For Class 55 Rating, Add		2,699.91	
		For Class 56 Rating, Add		3,581.62	
40 05 19 00-0960	EA	30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,852.12	1,554.37
		For Class 52 Rating, Deduct		-1,374.67	
		For Class 54 Rating, Add		1,902.81	
		For Class 55 Rating, Add		2,843.36	
		For Class 56 Rating, Add		3,771.40	
40 05 19 00-0961	EA	30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,500.40	1,558.06
		For Class 52 Rating, Deduct		-1,445.37	
		For Class 54 Rating, Add		1,999.28	
		For Class 55 Rating, Add		2,986.81	
		For Class 56 Rating, Add		3,961.20	
40 05 19 00-0962	EA	30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,148.66	1,561.75
		For Class 52 Rating, Deduct		-1,516.06	
		For Class 54 Rating, Add		2,095.75	
		For Class 55 Rating, Add		3,130.26	
		For Class 56 Rating, Add		4,150.99	
40 05 19 00-0963	EA	30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,796.92	1,565.45
		For Class 52 Rating, Deduct		-1,586.75	
		For Class 54 Rating, Add		2,192.22	
		For Class 55 Rating, Add		3,273.71	
		For Class 56 Rating, Add		4,340.77	
40 05 19 00-0964	EA	30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		17,445.20	1,569.14
		For Class 52 Rating, Deduct		-1,657.45	
		For Class 54 Rating, Add		2,288.69	
		For Class 55 Rating, Add		3,417.16	
		For Class 56 Rating, Add		4,530.57	
40 05 19 00-0965	EA	30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		18,093.47	1,572.83
		For Class 52 Rating, Deduct		-1,728.14	
		For Class 54 Rating, Add		2,385.16	
		For Class 55 Rating, Add		3,560.61	
		For Class 56 Rating, Add		4,720.36	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0966	EA	30"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,741.74	1,576.52
			For Class 52 Rating, Deduct	-1,798.84	
			For Class 54 Rating, Add	2,481.62	
			For Class 55 Rating, Add	3,704.06	
			For Class 56 Rating, Add	4,910.15	
40 05 19 00-0967	EA	30"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,390.01	1,580.22
			For Class 52 Rating, Deduct	-1,869.53	
			For Class 54 Rating, Add	2,578.09	
			For Class 55 Rating, Add	3,847.51	
			For Class 56 Rating, Add	5,099.94	
40 05 19 00-0968	EA	30"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,038.28	1,583.90
			For Class 52 Rating, Deduct	-1,940.23	
			For Class 54 Rating, Add	2,674.56	
			For Class 55 Rating, Add	3,990.96	
			For Class 56 Rating, Add	5,289.73	
40 05 19 00-0969	EA	30"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,686.54	1,587.60
			For Class 52 Rating, Deduct	-2,010.92	
			For Class 54 Rating, Add	2,771.03	
			For Class 55 Rating, Add	4,134.41	
			For Class 56 Rating, Add	5,479.52	
40 05 19 00-0970	EA	30"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,334.81	1,591.29
			For Class 52 Rating, Deduct	-2,081.61	
			For Class 54 Rating, Add	2,867.50	
			For Class 55 Rating, Add	4,277.86	
			For Class 56 Rating, Add	5,669.31	
40 05 19 00-0971	EA	30"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,983.08	1,594.99
			For Class 52 Rating, Deduct	-2,152.31	
			For Class 54 Rating, Add	2,963.97	
			For Class 55 Rating, Add	4,421.32	
			For Class 56 Rating, Add	5,859.10	
40 05 19 00-0972	EA	30"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,631.34	1,598.67
			For Class 52 Rating, Deduct	-2,223.00	
			For Class 54 Rating, Add	3,060.43	
			For Class 55 Rating, Add	4,564.77	
			For Class 56 Rating, Add	6,048.89	
40 05 19 00-0973	EA	30"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,279.62	1,602.37
			For Class 52 Rating, Deduct	-2,293.70	
			For Class 54 Rating, Add	3,156.90	
			For Class 55 Rating, Add	4,708.22	
			For Class 56 Rating, Add	6,238.68	
40 05 19 00-0974	EA	30"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,927.88	1,606.06
			For Class 52 Rating, Deduct	-2,364.39	
			For Class 54 Rating, Add	3,253.37	
			For Class 55 Rating, Add	4,851.67	
			For Class 56 Rating, Add	6,428.47	
40 05 19 00-0975	EA	30"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,576.15	1,609.75
			For Class 52 Rating, Deduct	-2,435.09	
			For Class 54 Rating, Add	3,349.84	
			For Class 55 Rating, Add	4,995.12	
			For Class 56 Rating, Add	6,618.26	
40 05 19 00-0976	EA	30"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,224.42	1,613.44
			For Class 52 Rating, Deduct	-2,505.78	
			For Class 54 Rating, Add	3,446.31	
			For Class 55 Rating, Add	5,138.57	
			For Class 56 Rating, Add	6,808.05	
40 05 19 00-0977	EA	30"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,872.68	1,617.14
			For Class 52 Rating, Deduct	-2,576.47	
			For Class 54 Rating, Add	3,542.77	
			For Class 55 Rating, Add	5,282.02	
			For Class 56 Rating, Add	6,997.84	
40 05 19 00-0978	EA	30"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,520.96	1,620.83
			For Class 52 Rating, Deduct	-2,647.17	
			For Class 54 Rating, Add	3,639.24	
			For Class 55 Rating, Add	5,425.47	
			For Class 56 Rating, Add	7,187.63	
40 05 19 00-0979	EA	30"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,169.23	1,624.52
			For Class 52 Rating, Deduct	-2,717.86	
			For Class 54 Rating, Add	3,735.71	
			For Class 55 Rating, Add	5,568.92	
			For Class 56 Rating, Add	7,377.42	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,817.50	1,628.21
			For Class 52 Rating, Deduct	-2,788.56	
			For Class 54 Rating, Add	3,832.18	
			For Class 55 Rating, Add	5,712.37	
			For Class 56 Rating, Add	7,567.21	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,465.77	1,631.91
			For Class 52 Rating, Deduct	-2,859.25	
			For Class 54 Rating, Add	3,928.65	
			For Class 55 Rating, Add	5,855.82	
			For Class 56 Rating, Add	7,757.00	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,114.04	1,635.59
			For Class 52 Rating, Deduct	-2,929.94	
			For Class 54 Rating, Add	4,025.12	
			For Class 55 Rating, Add	5,999.27	
			For Class 56 Rating, Add	7,946.79	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,762.30	1,639.29
			For Class 52 Rating, Deduct	-3,000.64	
			For Class 54 Rating, Add	4,121.58	
			For Class 55 Rating, Add	6,142.72	
			For Class 56 Rating, Add	8,136.58	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,410.57	1,642.98
			For Class 52 Rating, Deduct	-3,071.33	
			For Class 54 Rating, Add	4,218.05	
			For Class 55 Rating, Add	6,286.17	
			For Class 56 Rating, Add	8,326.37	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,058.84	1,646.67
			For Class 52 Rating, Deduct	-3,142.03	
			For Class 54 Rating, Add	4,314.52	
			For Class 55 Rating, Add	6,429.62	
			For Class 56 Rating, Add	8,516.16	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,707.10	1,650.36
			For Class 52 Rating, Deduct	-3,212.72	
			For Class 54 Rating, Add	4,410.99	
			For Class 55 Rating, Add	6,573.07	
			For Class 56 Rating, Add	8,705.95	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,355.38	1,654.06
			For Class 52 Rating, Deduct	-3,283.42	
			For Class 54 Rating, Add	4,507.46	
			For Class 55 Rating, Add	6,716.53	
			For Class 56 Rating, Add	8,895.74	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,003.64	1,657.75
			For Class 52 Rating, Deduct	-3,354.11	
			For Class 54 Rating, Add	4,603.93	
			For Class 55 Rating, Add	6,859.98	
			For Class 56 Rating, Add	9,085.53	
40 05 19 00-0989			36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0990	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,383.28	1,927.27
			For Class 52 Rating, Deduct	-1,040.95	
			For Class 54 Rating, Add	1,454.52	
			For Class 55 Rating, Add	2,180.37	
			For Class 56 Rating, Add	2,896.76	
40 05 19 00-0991	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,263.13	1,930.96
			For Class 52 Rating, Deduct	-1,137.12	
			For Class 54 Rating, Add	1,585.72	
			For Class 55 Rating, Add	2,375.46	
			For Class 56 Rating, Add	3,154.87	
40 05 19 00-0992	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,142.97	1,934.66
			For Class 52 Rating, Deduct	-1,233.28	
			For Class 54 Rating, Add	1,716.93	
			For Class 55 Rating, Add	2,570.55	
			For Class 56 Rating, Add	3,412.97	
40 05 19 00-0993	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,022.81	1,938.34
			For Class 52 Rating, Deduct	-1,329.45	
			For Class 54 Rating, Add	1,848.13	
			For Class 55 Rating, Add	2,765.65	
			For Class 56 Rating, Add	3,671.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0994	EA	36"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,902.65	1,942.04
			For Class 52 Rating, Deduct	-1,425.62	
			For Class 54 Rating, Add	1,979.33	
			For Class 55 Rating, Add	2,960.74	
			For Class 56 Rating, Add	3,929.18	
40 05 19 00-0995	EA	36"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,782.49	1,945.73
			For Class 52 Rating, Deduct	-1,521.79	
			For Class 54 Rating, Add	2,110.54	
			For Class 55 Rating, Add	3,155.83	
			For Class 56 Rating, Add	4,187.28	
40 05 19 00-0996	EA	36"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,662.32	1,949.42
			For Class 52 Rating, Deduct	-1,617.95	
			For Class 54 Rating, Add	2,241.74	
			For Class 55 Rating, Add	3,350.92	
			For Class 56 Rating, Add	4,445.38	
40 05 19 00-0997	EA	36"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,542.17	1,953.11
			For Class 52 Rating, Deduct	-1,714.12	
			For Class 54 Rating, Add	2,372.95	
			For Class 55 Rating, Add	3,546.01	
			For Class 56 Rating, Add	4,703.49	
40 05 19 00-0998	EA	36"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,422.00	1,956.81
			For Class 52 Rating, Deduct	-1,810.29	
			For Class 54 Rating, Add	2,504.15	
			For Class 55 Rating, Add	3,741.10	
			For Class 56 Rating, Add	4,961.59	
40 05 19 00-0999	EA	36"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,301.84	1,960.50
			For Class 52 Rating, Deduct	-1,906.45	
			For Class 54 Rating, Add	2,635.35	
			For Class 55 Rating, Add	3,936.19	
			For Class 56 Rating, Add	5,219.70	
40 05 19 00-1000	EA	36"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,181.68	1,964.19
			For Class 52 Rating, Deduct	-2,002.62	
			For Class 54 Rating, Add	2,766.56	
			For Class 55 Rating, Add	4,131.28	
			For Class 56 Rating, Add	5,477.80	
40 05 19 00-1001	EA	36"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,061.52	1,967.88
			For Class 52 Rating, Deduct	-2,098.79	
			For Class 54 Rating, Add	2,897.76	
			For Class 55 Rating, Add	4,326.37	
			For Class 56 Rating, Add	5,735.90	
40 05 19 00-1002	EA	36"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,941.35	1,971.58
			For Class 52 Rating, Deduct	-2,194.95	
			For Class 54 Rating, Add	3,028.96	
			For Class 55 Rating, Add	4,521.46	
			For Class 56 Rating, Add	5,994.01	
40 05 19 00-1003	EA	36"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,821.20	1,975.26
			For Class 52 Rating, Deduct	-2,291.12	
			For Class 54 Rating, Add	3,160.17	
			For Class 55 Rating, Add	4,716.55	
			For Class 56 Rating, Add	6,252.11	
40 05 19 00-1004	EA	36"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,701.03	1,978.96
			For Class 52 Rating, Deduct	-2,387.29	
			For Class 54 Rating, Add	3,291.37	
			For Class 55 Rating, Add	4,911.64	
			For Class 56 Rating, Add	6,510.21	
40 05 19 00-1005	EA	36"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,580.87	1,982.65
			For Class 52 Rating, Deduct	-2,483.45	
			For Class 54 Rating, Add	3,422.58	
			For Class 55 Rating, Add	5,106.74	
			For Class 56 Rating, Add	6,768.32	
40 05 19 00-1006	EA	36"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,460.72	1,986.35
			For Class 52 Rating, Deduct	-2,579.62	
			For Class 54 Rating, Add	3,553.78	
			For Class 55 Rating, Add	5,301.83	
			For Class 56 Rating, Add	7,026.42	
40 05 19 00-1007	EA	36"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,340.56	1,990.03
			For Class 52 Rating, Deduct	-2,675.79	
			For Class 54 Rating, Add	3,684.99	
			For Class 55 Rating, Add	5,496.92	
			For Class 56 Rating, Add	7,284.53	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,220.40	1,993.73
			For Class 52 Rating, Deduct	-2,771.96	
			For Class 54 Rating, Add	3,816.19	
			For Class 55 Rating, Add	5,692.01	
			For Class 56 Rating, Add	7,542.63	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,100.24	1,997.42
			For Class 52 Rating, Deduct	-2,868.12	
			For Class 54 Rating, Add	3,947.39	
			For Class 55 Rating, Add	5,887.10	
			For Class 56 Rating, Add	7,800.73	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,980.08	2,001.11
			For Class 52 Rating, Deduct	-2,964.29	
			For Class 54 Rating, Add	4,078.60	
			For Class 55 Rating, Add	6,082.19	
			For Class 56 Rating, Add	8,058.84	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,859.91	2,004.80
			For Class 52 Rating, Deduct	-3,060.46	
			For Class 54 Rating, Add	4,209.80	
			For Class 55 Rating, Add	6,277.28	
			For Class 56 Rating, Add	8,316.94	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,739.76	2,008.50
			For Class 52 Rating, Deduct	-3,156.62	
			For Class 54 Rating, Add	4,341.01	
			For Class 55 Rating, Add	6,472.37	
			For Class 56 Rating, Add	8,575.05	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,619.59	2,012.18
			For Class 52 Rating, Deduct	-3,252.79	
			For Class 54 Rating, Add	4,472.21	
			For Class 55 Rating, Add	6,667.46	
			For Class 56 Rating, Add	8,833.15	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,499.43	2,015.88
			For Class 52 Rating, Deduct	-3,348.96	
			For Class 54 Rating, Add	4,603.41	
			For Class 55 Rating, Add	6,862.56	
			For Class 56 Rating, Add	9,091.25	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,379.27	2,019.57
			For Class 52 Rating, Deduct	-3,445.12	
			For Class 54 Rating, Add	4,734.62	
			For Class 55 Rating, Add	7,057.65	
			For Class 56 Rating, Add	9,349.36	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,259.11	2,023.27
			For Class 52 Rating, Deduct	-3,541.29	
			For Class 54 Rating, Add	4,865.82	
			For Class 55 Rating, Add	7,252.74	
			For Class 56 Rating, Add	9,607.46	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,138.94	2,026.95
			For Class 52 Rating, Deduct	-3,637.46	
			For Class 54 Rating, Add	4,997.02	
			For Class 55 Rating, Add	7,447.83	
			For Class 56 Rating, Add	9,865.56	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,018.79	2,030.65
			For Class 52 Rating, Deduct	-3,733.63	
			For Class 54 Rating, Add	5,128.23	
			For Class 55 Rating, Add	7,642.92	
			For Class 56 Rating, Add	10,123.67	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,898.62	2,034.34
			For Class 52 Rating, Deduct	-3,829.79	
			For Class 54 Rating, Add	5,259.43	
			For Class 55 Rating, Add	7,838.01	
			For Class 56 Rating, Add	10,381.77	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,778.47	2,038.03
			For Class 52 Rating, Deduct	-3,925.96	
			For Class 54 Rating, Add	5,390.64	
			For Class 55 Rating, Add	8,033.10	
			For Class 56 Rating, Add	10,639.87	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,658.31	2,041.72
			For Class 52 Rating, Deduct	-4,022.13	
			For Class 54 Rating, Add	5,521.84	
			For Class 55 Rating, Add	8,228.19	
			For Class 56 Rating, Add	10,897.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1022	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,538.15	2,045.42
			For Class 52 Rating, Deduct	-4,118.29	
			For Class 54 Rating, Add	5,653.04	
			For Class 55 Rating, Add	8,423.28	
			For Class 56 Rating, Add	11,156.08	
40 05 19 00-1023	EA		36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,417.98	2,049.11
			For Class 52 Rating, Deduct	-4,214.46	
			For Class 54 Rating, Add	5,784.25	
			For Class 55 Rating, Add	8,618.37	
			For Class 56 Rating, Add	11,414.18	
40 05 19 00-1024	EA		36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,297.83	2,052.80
			For Class 52 Rating, Deduct	-4,310.63	
			For Class 54 Rating, Add	5,915.45	
			For Class 55 Rating, Add	8,813.46	
			For Class 56 Rating, Add	11,672.29	
40 05 19 00-1025	EA		36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,177.66	2,056.49
			For Class 52 Rating, Deduct	-4,406.79	
			For Class 54 Rating, Add	6,046.65	
			For Class 55 Rating, Add	9,008.55	
			For Class 56 Rating, Add	11,930.39	
40 05 19 00-1026	EA		36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,057.50	2,060.19
			For Class 52 Rating, Deduct	-4,502.96	
			For Class 54 Rating, Add	6,177.86	
			For Class 55 Rating, Add	9,203.65	
			For Class 56 Rating, Add	12,188.50	
40 05 19 00-1027	EA		36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,937.34	2,063.87
			For Class 52 Rating, Deduct	-4,599.13	
			For Class 54 Rating, Add	6,309.06	
			For Class 55 Rating, Add	9,398.74	
			For Class 56 Rating, Add	12,446.60	
40 05 19 00-1028			Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Piping (40 05 19 00-0001)		
40 05 19 00-1029			4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1030	EA		4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	650.86	180.56
			For Class 52 Rating, Deduct	-41.50	
			For Class 54 Rating, Add	59.87	
			For Class 55 Rating, Add	90.70	
			For Class 56 Rating, Add	121.15	
40 05 19 00-1031	EA		4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	723.29	183.72
			For Class 52 Rating, Deduct	-48.94	
			For Class 54 Rating, Add	70.08	
			For Class 55 Rating, Add	105.90	
			For Class 56 Rating, Add	141.28	
40 05 19 00-1032	EA		4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	795.73	186.89
			For Class 52 Rating, Deduct	-56.38	
			For Class 54 Rating, Add	80.28	
			For Class 55 Rating, Add	121.10	
			For Class 56 Rating, Add	161.40	
40 05 19 00-1033	EA		4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	868.16	190.03
			For Class 52 Rating, Deduct	-63.83	
			For Class 54 Rating, Add	90.49	
			For Class 55 Rating, Add	136.30	
			For Class 56 Rating, Add	181.53	
40 05 19 00-1034	EA		4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	940.59	193.20
			For Class 52 Rating, Deduct	-71.27	
			For Class 54 Rating, Add	100.69	
			For Class 55 Rating, Add	151.50	
			For Class 56 Rating, Add	201.66	
40 05 19 00-1035	EA		4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,013.02	196.36
			For Class 52 Rating, Deduct	-78.71	
			For Class 54 Rating, Add	110.90	
			For Class 55 Rating, Add	166.70	
			For Class 56 Rating, Add	221.79	
40 05 19 00-1036	EA		4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,085.45	199.52
			For Class 52 Rating, Deduct	-86.15	
			For Class 54 Rating, Add	121.10	
			For Class 55 Rating, Add	181.90	
			For Class 56 Rating, Add	241.92	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1037	EA		4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,157.89	202.66
			For Class 52 Rating, Deduct	-93.59	
			For Class 54 Rating, Add	131.31	
			For Class 55 Rating, Add	197.10	
			For Class 56 Rating, Add	262.05	
40 05 19 00-1038	EA		4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,230.32	205.82
			For Class 52 Rating, Deduct	-101.03	
			For Class 54 Rating, Add	141.51	
			For Class 55 Rating, Add	212.31	
			For Class 56 Rating, Add	282.18	
40 05 19 00-1039	EA		4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,302.76	208.98
			For Class 52 Rating, Deduct	-108.47	
			For Class 54 Rating, Add	151.72	
			For Class 55 Rating, Add	227.51	
			For Class 56 Rating, Add	302.31	
40 05 19 00-1040	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,375.19	212.13
			For Class 52 Rating, Deduct	-115.92	
			For Class 54 Rating, Add	161.92	
			For Class 55 Rating, Add	242.71	
			For Class 56 Rating, Add	322.44	
40 05 19 00-1041	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,447.62	215.29
			For Class 52 Rating, Deduct	-123.36	
			For Class 54 Rating, Add	172.13	
			For Class 55 Rating, Add	257.91	
			For Class 56 Rating, Add	342.56	
40 05 19 00-1042	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,520.05	218.45
			For Class 52 Rating, Deduct	-130.80	
			For Class 54 Rating, Add	182.33	
			For Class 55 Rating, Add	273.11	
			For Class 56 Rating, Add	362.69	
40 05 19 00-1043	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,592.48	221.61
			For Class 52 Rating, Deduct	-138.24	
			For Class 54 Rating, Add	192.54	
			For Class 55 Rating, Add	288.31	
			For Class 56 Rating, Add	382.82	
40 05 19 00-1044	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,664.92	224.76
			For Class 52 Rating, Deduct	-145.68	
			For Class 54 Rating, Add	202.74	
			For Class 55 Rating, Add	303.51	
			For Class 56 Rating, Add	402.95	
40 05 19 00-1045	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,737.35	227.92
			For Class 52 Rating, Deduct	-153.12	
			For Class 54 Rating, Add	212.95	
			For Class 55 Rating, Add	318.71	
			For Class 56 Rating, Add	423.08	
40 05 19 00-1046	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,809.79	231.08
			For Class 52 Rating, Deduct	-160.56	
			For Class 54 Rating, Add	223.15	
			For Class 55 Rating, Add	333.91	
			For Class 56 Rating, Add	443.21	
40 05 19 00-1047	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,882.22	234.23
			For Class 52 Rating, Deduct	-168.01	
			For Class 54 Rating, Add	233.36	
			For Class 55 Rating, Add	349.11	
			For Class 56 Rating, Add	463.34	
40 05 19 00-1048	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	1,954.65	237.38
			For Class 52 Rating, Deduct	-175.45	
			For Class 54 Rating, Add	243.56	
			For Class 55 Rating, Add	364.31	
			For Class 56 Rating, Add	483.47	
40 05 19 00-1049	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	2,027.09	240.54
			For Class 52 Rating, Deduct	-182.89	
			For Class 54 Rating, Add	253.77	
			For Class 55 Rating, Add	379.51	
			For Class 56 Rating, Add	503.60	
40 05 19 00-1050	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	2,099.51	243.70
			For Class 52 Rating, Deduct	-190.33	
			For Class 54 Rating, Add	263.97	
			For Class 55 Rating, Add	394.71	
			For Class 56 Rating, Add	523.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1051	EA		4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,171.95	246.85
			For Class 52 Rating, Deduct	-197.77	
			For Class 54 Rating, Add	274.18	
			For Class 55 Rating, Add	409.91	
			For Class 56 Rating, Add	543.85	
40 05 19 00-1052	EA		4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,244.38	250.01
			For Class 52 Rating, Deduct	-205.21	
			For Class 54 Rating, Add	284.38	
			For Class 55 Rating, Add	425.12	
			For Class 56 Rating, Add	563.98	
40 05 19 00-1053	EA		4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,316.81	253.17
			For Class 52 Rating, Deduct	-212.66	
			For Class 54 Rating, Add	294.59	
			For Class 55 Rating, Add	440.32	
			For Class 56 Rating, Add	584.11	
40 05 19 00-1054	EA		4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,389.25	256.32
			For Class 52 Rating, Deduct	-220.10	
			For Class 54 Rating, Add	304.79	
			For Class 55 Rating, Add	455.52	
			For Class 56 Rating, Add	604.24	
40 05 19 00-1055	EA		4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,461.68	259.48
			For Class 52 Rating, Deduct	-227.54	
			For Class 54 Rating, Add	315.00	
			For Class 55 Rating, Add	470.72	
			For Class 56 Rating, Add	624.37	
40 05 19 00-1056	EA		4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,534.12	262.64
			For Class 52 Rating, Deduct	-234.98	
			For Class 54 Rating, Add	325.20	
			For Class 55 Rating, Add	485.92	
			For Class 56 Rating, Add	644.50	
40 05 19 00-1057	EA		4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,606.55	265.80
			For Class 52 Rating, Deduct	-242.42	
			For Class 54 Rating, Add	335.41	
			For Class 55 Rating, Add	501.12	
			For Class 56 Rating, Add	664.63	
40 05 19 00-1058	EA		4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,678.98	268.95
			For Class 52 Rating, Deduct	-249.86	
			For Class 54 Rating, Add	345.61	
			For Class 55 Rating, Add	516.32	
			For Class 56 Rating, Add	684.76	
40 05 19 00-1059	EA		4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,751.41	272.11
			For Class 52 Rating, Deduct	-257.30	
			For Class 54 Rating, Add	355.82	
			For Class 55 Rating, Add	531.52	
			For Class 56 Rating, Add	704.89	
40 05 19 00-1060	EA		4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,823.84	275.27
			For Class 52 Rating, Deduct	-264.75	
			For Class 54 Rating, Add	366.02	
			For Class 55 Rating, Add	546.72	
			For Class 56 Rating, Add	725.01	
40 05 19 00-1061	EA		4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,896.28	278.44
			For Class 52 Rating, Deduct	-272.19	
			For Class 54 Rating, Add	376.23	
			For Class 55 Rating, Add	561.92	
			For Class 56 Rating, Add	745.14	
40 05 19 00-1062	EA		4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,968.71	281.57
			For Class 52 Rating, Deduct	-279.63	
			For Class 54 Rating, Add	386.43	
			For Class 55 Rating, Add	577.12	
			For Class 56 Rating, Add	765.27	
40 05 19 00-1063	EA		4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,041.15	284.74
			For Class 52 Rating, Deduct	-287.07	
			For Class 54 Rating, Add	396.64	
			For Class 55 Rating, Add	592.32	
			For Class 56 Rating, Add	785.40	
40 05 19 00-1064	EA		4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,113.58	287.90
			For Class 52 Rating, Deduct	-294.51	
			For Class 54 Rating, Add	406.84	
			For Class 55 Rating, Add	607.52	
			For Class 56 Rating, Add	805.53	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1065	EA	4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,186.01		291.05
		For Class 52 Rating, Deduct		-301.95		
		For Class 54 Rating, Add		417.05		
		For Class 55 Rating, Add		622.73		
		For Class 56 Rating, Add		825.66		
40 05 19 00-1066	EA	4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,258.44		294.21
		For Class 52 Rating, Deduct		-309.39		
		For Class 54 Rating, Add		427.25		
		For Class 55 Rating, Add		637.93		
		For Class 56 Rating, Add		845.79		
40 05 19 00-1067	EA	4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,330.87		297.37
		For Class 52 Rating, Deduct		-316.84		
		For Class 54 Rating, Add		437.46		
		For Class 55 Rating, Add		653.13		
		For Class 56 Rating, Add		865.92		
40 05 19 00-1068	EA	4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,403.31		300.53
		For Class 52 Rating, Deduct		-324.28		
		For Class 54 Rating, Add		447.66		
		For Class 55 Rating, Add		668.33		
		For Class 56 Rating, Add		886.05		
40 05 19 00-1069		6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)				
40 05 19 00-1070	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		815.32		227.29
		For Class 52 Rating, Deduct		-51.80		
		For Class 54 Rating, Add		74.77		
		For Class 55 Rating, Add		113.29		
		For Class 56 Rating, Add		151.33		
40 05 19 00-1071	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		903.36		230.45
		For Class 52 Rating, Deduct		-60.96		
		For Class 54 Rating, Add		87.32		
		For Class 55 Rating, Add		131.97		
		For Class 56 Rating, Add		176.06		
40 05 19 00-1072	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		991.41		233.60
		For Class 52 Rating, Deduct		-70.12		
		For Class 54 Rating, Add		99.87		
		For Class 55 Rating, Add		150.65		
		For Class 56 Rating, Add		200.80		
40 05 19 00-1073	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,079.45		236.76
		For Class 52 Rating, Deduct		-79.28		
		For Class 54 Rating, Add		112.41		
		For Class 55 Rating, Add		169.33		
		For Class 56 Rating, Add		225.53		
40 05 19 00-1074	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,167.50		239.92
		For Class 52 Rating, Deduct		-88.44		
		For Class 54 Rating, Add		124.96		
		For Class 55 Rating, Add		188.01		
		For Class 56 Rating, Add		250.26		
40 05 19 00-1075	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,255.54		243.07
		For Class 52 Rating, Deduct		-97.60		
		For Class 54 Rating, Add		137.51		
		For Class 55 Rating, Add		206.70		
		For Class 56 Rating, Add		275.00		
40 05 19 00-1076	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,343.58		246.23
		For Class 52 Rating, Deduct		-106.76		
		For Class 54 Rating, Add		150.05		
		For Class 55 Rating, Add		225.38		
		For Class 56 Rating, Add		299.73		
40 05 19 00-1077	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,431.63		249.39
		For Class 52 Rating, Deduct		-115.92		
		For Class 54 Rating, Add		162.60		
		For Class 55 Rating, Add		244.06		
		For Class 56 Rating, Add		324.47		
40 05 19 00-1078	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,519.67		252.55
		For Class 52 Rating, Deduct		-125.07		
		For Class 54 Rating, Add		175.15		
		For Class 55 Rating, Add		262.74		
		For Class 56 Rating, Add		349.20		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1079	EA	6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,607.72	255.69
		For Class 52 Rating, Deduct		-134.23	
		For Class 54 Rating, Add		187.69	
		For Class 55 Rating, Add		281.42	
		For Class 56 Rating, Add		373.94	
40 05 19 00-1080	EA	6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,695.76	258.85
		For Class 52 Rating, Deduct		-143.39	
		For Class 54 Rating, Add		200.24	
		For Class 55 Rating, Add		300.11	
		For Class 56 Rating, Add		398.67	
40 05 19 00-1081	EA	6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,783.81	262.01
		For Class 52 Rating, Deduct		-152.55	
		For Class 54 Rating, Add		212.79	
		For Class 55 Rating, Add		318.79	
		For Class 56 Rating, Add		423.40	
40 05 19 00-1082	EA	6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,871.85	265.16
		For Class 52 Rating, Deduct		-161.71	
		For Class 54 Rating, Add		225.33	
		For Class 55 Rating, Add		337.47	
		For Class 56 Rating, Add		448.14	
40 05 19 00-1083	EA	6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,959.90	268.32
		For Class 52 Rating, Deduct		-170.87	
		For Class 54 Rating, Add		237.88	
		For Class 55 Rating, Add		356.15	
		For Class 56 Rating, Add		472.87	
40 05 19 00-1084	EA	6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,047.94	271.48
		For Class 52 Rating, Deduct		-180.03	
		For Class 54 Rating, Add		250.43	
		For Class 55 Rating, Add		374.84	
		For Class 56 Rating, Add		497.61	
40 05 19 00-1085	EA	6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,135.98	274.64
		For Class 52 Rating, Deduct		-189.19	
		For Class 54 Rating, Add		262.97	
		For Class 55 Rating, Add		393.52	
		For Class 56 Rating, Add		522.34	
40 05 19 00-1086	EA	6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,224.03	277.79
		For Class 52 Rating, Deduct		-198.34	
		For Class 54 Rating, Add		275.52	
		For Class 55 Rating, Add		412.20	
		For Class 56 Rating, Add		547.08	
40 05 19 00-1087	EA	6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,312.07	280.95
		For Class 52 Rating, Deduct		-207.50	
		For Class 54 Rating, Add		288.07	
		For Class 55 Rating, Add		430.88	
		For Class 56 Rating, Add		571.81	
40 05 19 00-1088	EA	6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,400.11	284.11
		For Class 52 Rating, Deduct		-216.66	
		For Class 54 Rating, Add		300.61	
		For Class 55 Rating, Add		449.56	
		For Class 56 Rating, Add		596.54	
40 05 19 00-1089	EA	6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,488.16	287.27
		For Class 52 Rating, Deduct		-225.82	
		For Class 54 Rating, Add		313.16	
		For Class 55 Rating, Add		468.24	
		For Class 56 Rating, Add		621.28	
40 05 19 00-1090	EA	6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,576.21	290.42
		For Class 52 Rating, Deduct		-234.98	
		For Class 54 Rating, Add		325.71	
		For Class 55 Rating, Add		486.93	
		For Class 56 Rating, Add		646.01	
40 05 19 00-1091	EA	6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,664.26	293.57
		For Class 52 Rating, Deduct		-244.14	
		For Class 54 Rating, Add		338.25	
		For Class 55 Rating, Add		505.61	
		For Class 56 Rating, Add		670.75	
40 05 19 00-1092	EA	6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,752.29	296.73
		For Class 52 Rating, Deduct		-253.30	
		For Class 54 Rating, Add		350.80	
		For Class 55 Rating, Add		524.29	
		For Class 56 Rating, Add		695.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1093	EA	6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,840.34	299.88
		For Class 52 Rating, Deduct		-262.46	
		For Class 54 Rating, Add		363.35	
		For Class 55 Rating, Add		542.97	
		For Class 56 Rating, Add		720.22	
40 05 19 00-1094	EA	6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		2,928.38	303.04
		For Class 52 Rating, Deduct		-271.61	
		For Class 54 Rating, Add		375.89	
		For Class 55 Rating, Add		561.66	
		For Class 56 Rating, Add		744.95	
40 05 19 00-1095	EA	6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,016.42	306.20
		For Class 52 Rating, Deduct		-280.77	
		For Class 54 Rating, Add		388.44	
		For Class 55 Rating, Add		580.34	
		For Class 56 Rating, Add		769.68	
40 05 19 00-1096	EA	6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,104.47	309.37
		For Class 52 Rating, Deduct		-289.93	
		For Class 54 Rating, Add		400.99	
		For Class 55 Rating, Add		599.02	
		For Class 56 Rating, Add		794.42	
40 05 19 00-1097	EA	6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,192.52	312.51
		For Class 52 Rating, Deduct		-299.09	
		For Class 54 Rating, Add		413.53	
		For Class 55 Rating, Add		617.70	
		For Class 56 Rating, Add		819.15	
40 05 19 00-1098	EA	6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,280.57	315.67
		For Class 52 Rating, Deduct		-308.25	
		For Class 54 Rating, Add		426.08	
		For Class 55 Rating, Add		636.39	
		For Class 56 Rating, Add		843.89	
40 05 19 00-1099	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,368.61	318.84
		For Class 52 Rating, Deduct		-317.41	
		For Class 54 Rating, Add		438.63	
		For Class 55 Rating, Add		655.07	
		For Class 56 Rating, Add		868.62	
40 05 19 00-1100	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,456.64	321.98
		For Class 52 Rating, Deduct		-326.57	
		For Class 54 Rating, Add		451.17	
		For Class 55 Rating, Add		673.75	
		For Class 56 Rating, Add		893.36	
40 05 19 00-1101	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,544.69	325.15
		For Class 52 Rating, Deduct		-335.73	
		For Class 54 Rating, Add		463.72	
		For Class 55 Rating, Add		692.43	
		For Class 56 Rating, Add		918.09	
40 05 19 00-1102	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,632.73	328.31
		For Class 52 Rating, Deduct		-344.88	
		For Class 54 Rating, Add		476.27	
		For Class 55 Rating, Add		711.11	
		For Class 56 Rating, Add		942.82	
40 05 19 00-1103	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,720.79	331.47
		For Class 52 Rating, Deduct		-354.04	
		For Class 54 Rating, Add		488.81	
		For Class 55 Rating, Add		729.80	
		For Class 56 Rating, Add		967.56	
40 05 19 00-1104	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,808.83	334.61
		For Class 52 Rating, Deduct		-363.20	
		For Class 54 Rating, Add		501.36	
		For Class 55 Rating, Add		748.48	
		For Class 56 Rating, Add		992.29	
40 05 19 00-1105	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,896.88	337.77
		For Class 52 Rating, Deduct		-372.36	
		For Class 54 Rating, Add		513.91	
		For Class 55 Rating, Add		767.16	
		For Class 56 Rating, Add		1,017.03	
40 05 19 00-1106	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron			
		Pipe		3,984.92	340.93
		For Class 52 Rating, Deduct		-381.52	
		For Class 54 Rating, Add		526.45	
		For Class 55 Rating, Add		785.84	
		For Class 56 Rating, Add		1,041.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1107	EA	6"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,072.96	344.08
			For Class 52 Rating, Deduct.....	-390.68	
			For Class 54 Rating, Add.....	539.00	
			For Class 55 Rating, Add.....	804.52	
			For Class 56 Rating, Add.....	1,066.50	
40 05 19 00-1108	EA	6"	Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,161.00	347.24
			For Class 52 Rating, Deduct.....	-399.84	
			For Class 54 Rating, Add.....	551.55	
			For Class 55 Rating, Add.....	823.21	
			For Class 56 Rating, Add.....	1,091.23	
40 05 19 00-1109		8"	Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1110	EA	8"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,124.33	290.42
			For Class 52 Rating, Deduct.....	-75.27	
			For Class 54 Rating, Add.....	107.93	
			For Class 55 Rating, Add.....	163.16	
			For Class 56 Rating, Add.....	217.71	
40 05 19 00-1111	EA	8"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,243.61	293.57
			For Class 52 Rating, Deduct.....	-87.87	
			For Class 54 Rating, Add.....	125.16	
			For Class 55 Rating, Add.....	188.81	
			For Class 56 Rating, Add.....	251.66	
40 05 19 00-1112	EA	8"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,362.86	296.73
			For Class 52 Rating, Deduct.....	-100.46	
			For Class 54 Rating, Add.....	142.39	
			For Class 55 Rating, Add.....	214.45	
			For Class 56 Rating, Add.....	285.60	
40 05 19 00-1113	EA	8"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,482.14	299.88
			For Class 52 Rating, Deduct.....	-113.05	
			For Class 54 Rating, Add.....	159.62	
			For Class 55 Rating, Add.....	240.10	
			For Class 56 Rating, Add.....	319.55	
40 05 19 00-1114	EA	8"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,601.40	303.04
			For Class 52 Rating, Deduct.....	-125.65	
			For Class 54 Rating, Add.....	176.85	
			For Class 55 Rating, Add.....	265.74	
			For Class 56 Rating, Add.....	353.49	
40 05 19 00-1115	EA	8"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,720.67	306.20
			For Class 52 Rating, Deduct.....	-138.24	
			For Class 54 Rating, Add.....	194.08	
			For Class 55 Rating, Add.....	291.39	
			For Class 56 Rating, Add.....	387.44	
40 05 19 00-1116	EA	8"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,839.94	309.37
			For Class 52 Rating, Deduct.....	-150.83	
			For Class 54 Rating, Add.....	211.31	
			For Class 55 Rating, Add.....	317.03	
			For Class 56 Rating, Add.....	421.38	
40 05 19 00-1117	EA	8"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	1,959.21	312.51
			For Class 52 Rating, Deduct.....	-163.43	
			For Class 54 Rating, Add.....	228.54	
			For Class 55 Rating, Add.....	342.68	
			For Class 56 Rating, Add.....	455.33	
40 05 19 00-1118	EA	8"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,078.48	315.67
			For Class 52 Rating, Deduct.....	-176.02	
			For Class 54 Rating, Add.....	245.77	
			For Class 55 Rating, Add.....	368.32	
			For Class 56 Rating, Add.....	489.27	
40 05 19 00-1119	EA	8"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,197.75	318.84
			For Class 52 Rating, Deduct.....	-188.61	
			For Class 54 Rating, Add.....	263.00	
			For Class 55 Rating, Add.....	393.97	
			For Class 56 Rating, Add.....	523.22	
40 05 19 00-1120	EA	8"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	2,317.00	321.98
			For Class 52 Rating, Deduct.....	-201.21	
			For Class 54 Rating, Add.....	280.23	
			For Class 55 Rating, Add.....	419.61	
			For Class 56 Rating, Add.....	557.16	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1121	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,436.27		325.15
		For Class 52 Rating, Deduct		-213.80		
		For Class 54 Rating, Add		297.46		
		For Class 55 Rating, Add		445.25		
		For Class 56 Rating, Add		591.11		
40 05 19 00-1122	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,555.54		328.31
		For Class 52 Rating, Deduct		-226.39		
		For Class 54 Rating, Add		314.69		
		For Class 55 Rating, Add		470.90		
		For Class 56 Rating, Add		625.05		
40 05 19 00-1123	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,674.81		331.47
		For Class 52 Rating, Deduct		-238.99		
		For Class 54 Rating, Add		331.92		
		For Class 55 Rating, Add		496.54		
		For Class 56 Rating, Add		659.00		
40 05 19 00-1124	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,794.08		334.61
		For Class 52 Rating, Deduct		-251.58		
		For Class 54 Rating, Add		349.15		
		For Class 55 Rating, Add		522.19		
		For Class 56 Rating, Add		692.94		
40 05 19 00-1125	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,913.35		337.77
		For Class 52 Rating, Deduct		-264.17		
		For Class 54 Rating, Add		366.38		
		For Class 55 Rating, Add		547.83		
		For Class 56 Rating, Add		726.89		
40 05 19 00-1126	EA	8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,032.62		340.93
		For Class 52 Rating, Deduct		-276.77		
		For Class 54 Rating, Add		383.61		
		For Class 55 Rating, Add		573.48		
		For Class 56 Rating, Add		760.83		
40 05 19 00-1127	EA	8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,151.88		344.08
		For Class 52 Rating, Deduct		-289.36		
		For Class 54 Rating, Add		400.84		
		For Class 55 Rating, Add		599.12		
		For Class 56 Rating, Add		794.78		
40 05 19 00-1128	EA	8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,271.15		347.24
		For Class 52 Rating, Deduct		-301.95		
		For Class 54 Rating, Add		418.07		
		For Class 55 Rating, Add		624.77		
		For Class 56 Rating, Add		828.72		
40 05 19 00-1129	EA	8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,390.41		350.40
		For Class 52 Rating, Deduct		-314.55		
		For Class 54 Rating, Add		435.30		
		For Class 55 Rating, Add		650.41		
		For Class 56 Rating, Add		862.67		
40 05 19 00-1130	EA	8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,509.68		353.56
		For Class 52 Rating, Deduct		-327.14		
		For Class 54 Rating, Add		452.53		
		For Class 55 Rating, Add		676.06		
		For Class 56 Rating, Add		896.61		
40 05 19 00-1131	EA	8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,628.95		356.71
		For Class 52 Rating, Deduct		-339.73		
		For Class 54 Rating, Add		469.76		
		For Class 55 Rating, Add		701.70		
		For Class 56 Rating, Add		930.56		
40 05 19 00-1132	EA	8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,748.21		359.87
		For Class 52 Rating, Deduct		-352.33		
		For Class 54 Rating, Add		486.99		
		For Class 55 Rating, Add		727.35		
		For Class 56 Rating, Add		964.50		
40 05 19 00-1133	EA	8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,867.49		363.03
		For Class 52 Rating, Deduct		-364.92		
		For Class 54 Rating, Add		504.22		
		For Class 55 Rating, Add		752.99		
		For Class 56 Rating, Add		998.45		
40 05 19 00-1134	EA	8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,986.75		366.19
		For Class 52 Rating, Deduct		-377.51		
		For Class 54 Rating, Add		521.45		
		For Class 55 Rating, Add		778.64		
		For Class 56 Rating, Add		1,032.39		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1135	EA	8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,106.03	369.33
		For Class 52 Rating, Deduct		-390.11	
		For Class 54 Rating, Add		538.68	
		For Class 55 Rating, Add		804.28	
		For Class 56 Rating, Add		1,066.34	
40 05 19 00-1136	EA	8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,225.29	372.49
		For Class 52 Rating, Deduct		-402.70	
		For Class 54 Rating, Add		555.91	
		For Class 55 Rating, Add		829.93	
		For Class 56 Rating, Add		1,100.28	
40 05 19 00-1137	EA	8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,344.56	375.65
		For Class 52 Rating, Deduct		-415.29	
		For Class 54 Rating, Add		573.14	
		For Class 55 Rating, Add		855.57	
		For Class 56 Rating, Add		1,134.23	
40 05 19 00-1138	EA	8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,463.82	378.80
		For Class 52 Rating, Deduct		-427.89	
		For Class 54 Rating, Add		590.37	
		For Class 55 Rating, Add		881.22	
		For Class 56 Rating, Add		1,168.17	
40 05 19 00-1139	EA	8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,583.08	381.96
		For Class 52 Rating, Deduct		-440.48	
		For Class 54 Rating, Add		607.60	
		For Class 55 Rating, Add		906.86	
		For Class 56 Rating, Add		1,202.12	
40 05 19 00-1140	EA	8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,702.36	385.12
		For Class 52 Rating, Deduct		-453.07	
		For Class 54 Rating, Add		624.83	
		For Class 55 Rating, Add		932.51	
		For Class 56 Rating, Add		1,236.06	
40 05 19 00-1141	EA	8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,821.62	388.28
		For Class 52 Rating, Deduct		-465.67	
		For Class 54 Rating, Add		642.06	
		For Class 55 Rating, Add		958.15	
		For Class 56 Rating, Add		1,270.01	
40 05 19 00-1142	EA	8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,940.90	391.43
		For Class 52 Rating, Deduct		-478.26	
		For Class 54 Rating, Add		659.29	
		For Class 55 Rating, Add		983.80	
		For Class 56 Rating, Add		1,303.96	
40 05 19 00-1143	EA	8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,060.16	394.59
		For Class 52 Rating, Deduct		-490.85	
		For Class 54 Rating, Add		676.52	
		For Class 55 Rating, Add		1,009.44	
		For Class 56 Rating, Add		1,337.90	
40 05 19 00-1144	EA	8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,179.43	397.75
		For Class 52 Rating, Deduct		-503.45	
		For Class 54 Rating, Add		693.75	
		For Class 55 Rating, Add		1,035.09	
		For Class 56 Rating, Add		1,371.85	
40 05 19 00-1145	EA	8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,298.69	400.90
		For Class 52 Rating, Deduct		-516.04	
		For Class 54 Rating, Add		710.98	
		For Class 55 Rating, Add		1,060.73	
		For Class 56 Rating, Add		1,405.79	
40 05 19 00-1146	EA	8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,417.96	404.06
		For Class 52 Rating, Deduct		-528.63	
		For Class 54 Rating, Add		728.21	
		For Class 55 Rating, Add		1,086.38	
		For Class 56 Rating, Add		1,439.74	
40 05 19 00-1147	EA	8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,537.23	407.23
		For Class 52 Rating, Deduct		-541.23	
		For Class 54 Rating, Add		745.44	
		For Class 55 Rating, Add		1,112.02	
		For Class 56 Rating, Add		1,473.68	
40 05 19 00-1148	EA	8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,656.50	410.39
		For Class 52 Rating, Deduct		-553.82	
		For Class 54 Rating, Add		762.67	
		For Class 55 Rating, Add		1,137.67	
		For Class 56 Rating, Add		1,507.63	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 19 00-1149	10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)				
40 05 19 00-1150	EA 10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,417.74		353.56	
	For Class 52 Rating, Deduct	-97.03			
	For Class 54 Rating, Add	138.74			
	For Class 55 Rating, Add	209.55			
	For Class 56 Rating, Add	279.49			
40 05 19 00-1151	EA 10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,573.43		356.71	
	For Class 52 Rating, Deduct	-113.63			
	For Class 54 Rating, Add	161.43			
	For Class 55 Rating, Add	243.32			
	For Class 56 Rating, Add	324.18			
40 05 19 00-1152	EA 10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,729.12		359.87	
	For Class 52 Rating, Deduct	-130.23			
	For Class 54 Rating, Add	184.12			
	For Class 55 Rating, Add	277.09			
	For Class 56 Rating, Add	368.87			
40 05 19 00-1153	EA 10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,884.82		363.03	
	For Class 52 Rating, Deduct	-146.83			
	For Class 54 Rating, Add	206.82			
	For Class 55 Rating, Add	310.86			
	For Class 56 Rating, Add	413.56			
40 05 19 00-1154	EA 10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,040.52		366.19	
	For Class 52 Rating, Deduct	-163.43			
	For Class 54 Rating, Add	229.51			
	For Class 55 Rating, Add	344.63			
	For Class 56 Rating, Add	458.26			
40 05 19 00-1155	EA 10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,196.22		369.33	
	For Class 52 Rating, Deduct	-180.03			
	For Class 54 Rating, Add	252.21			
	For Class 55 Rating, Add	378.39			
	For Class 56 Rating, Add	502.95			
40 05 19 00-1156	EA 10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,351.91		372.49	
	For Class 52 Rating, Deduct	-196.63			
	For Class 54 Rating, Add	274.90			
	For Class 55 Rating, Add	412.16			
	For Class 56 Rating, Add	547.64			
40 05 19 00-1157	EA 10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,507.60		375.65	
	For Class 52 Rating, Deduct	-213.23			
	For Class 54 Rating, Add	297.59			
	For Class 55 Rating, Add	445.93			
	For Class 56 Rating, Add	592.33			
40 05 19 00-1158	EA 10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,663.29		378.80	
	For Class 52 Rating, Deduct	-229.83			
	For Class 54 Rating, Add	320.29			
	For Class 55 Rating, Add	479.70			
	For Class 56 Rating, Add	637.02			
40 05 19 00-1159	EA 10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,818.98		381.96	
	For Class 52 Rating, Deduct	-246.43			
	For Class 54 Rating, Add	342.98			
	For Class 55 Rating, Add	513.47			
	For Class 56 Rating, Add	681.71			
40 05 19 00-1160	EA 10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,974.68		385.12	
	For Class 52 Rating, Deduct	-263.03			
	For Class 54 Rating, Add	365.68			
	For Class 55 Rating, Add	547.23			
	For Class 56 Rating, Add	726.40			
40 05 19 00-1161	EA 10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,130.38		388.28	
	For Class 52 Rating, Deduct	-279.63			
	For Class 54 Rating, Add	388.37			
	For Class 55 Rating, Add	581.00			
	For Class 56 Rating, Add	771.09			
40 05 19 00-1162	EA 10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,286.08		391.43	
	For Class 52 Rating, Deduct	-296.23			
	For Class 54 Rating, Add	411.07			
	For Class 55 Rating, Add	614.77			
	For Class 56 Rating, Add	815.78			
40 05 19 00-1163	EA 10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,441.77		394.59	
	For Class 52 Rating, Deduct	-312.83			
	For Class 54 Rating, Add	433.76			
	For Class 55 Rating, Add	648.54			
	For Class 56 Rating, Add	860.47			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1164	EA	10"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,597.46	397.75
			For Class 52 Rating, Deduct.....	-329.43	
			For Class 54 Rating, Add.....	456.45	
			For Class 55 Rating, Add.....	682.31	
			For Class 56 Rating, Add.....	905.16	
40 05 19 00-1165	EA	10"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,753.15	400.90
			For Class 52 Rating, Deduct.....	-346.03	
			For Class 54 Rating, Add.....	479.15	
			For Class 55 Rating, Add.....	716.07	
			For Class 56 Rating, Add.....	949.85	
40 05 19 00-1166	EA	10"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,908.84	404.06
			For Class 52 Rating, Deduct.....	-362.63	
			For Class 54 Rating, Add.....	501.84	
			For Class 55 Rating, Add.....	749.84	
			For Class 56 Rating, Add.....	994.55	
40 05 19 00-1167	EA	10"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,064.54	407.23
			For Class 52 Rating, Deduct.....	-379.23	
			For Class 54 Rating, Add.....	524.54	
			For Class 55 Rating, Add.....	783.61	
			For Class 56 Rating, Add.....	1,039.24	
40 05 19 00-1168	EA	10"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,220.24	410.39
			For Class 52 Rating, Deduct.....	-395.63	
			For Class 54 Rating, Add.....	547.23	
			For Class 55 Rating, Add.....	817.38	
			For Class 56 Rating, Add.....	1,083.93	
40 05 19 00-1169	EA	10"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,375.94	413.52
			For Class 52 Rating, Deduct.....	-412.43	
			For Class 54 Rating, Add.....	569.92	
			For Class 55 Rating, Add.....	851.15	
			For Class 56 Rating, Add.....	1,128.62	
40 05 19 00-1170	EA	10"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,531.63	416.69
			For Class 52 Rating, Deduct.....	-429.03	
			For Class 54 Rating, Add.....	592.62	
			For Class 55 Rating, Add.....	884.91	
			For Class 56 Rating, Add.....	1,173.31	
40 05 19 00-1171	EA	10"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,687.32	419.85
			For Class 52 Rating, Deduct.....	-445.63	
			For Class 54 Rating, Add.....	615.31	
			For Class 55 Rating, Add.....	918.68	
			For Class 56 Rating, Add.....	1,218.00	
40 05 19 00-1172	EA	10"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,843.02	423.00
			For Class 52 Rating, Deduct.....	-462.23	
			For Class 54 Rating, Add.....	638.01	
			For Class 55 Rating, Add.....	952.45	
			For Class 56 Rating, Add.....	1,262.69	
40 05 19 00-1173	EA	10"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,998.70	426.16
			For Class 52 Rating, Deduct.....	-478.83	
			For Class 54 Rating, Add.....	660.70	
			For Class 55 Rating, Add.....	986.22	
			For Class 56 Rating, Add.....	1,307.38	
40 05 19 00-1174	EA	10"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,154.40	429.32
			For Class 52 Rating, Deduct.....	-495.43	
			For Class 54 Rating, Add.....	683.39	
			For Class 55 Rating, Add.....	1,019.99	
			For Class 56 Rating, Add.....	1,352.07	
40 05 19 00-1175	EA	10"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,310.09	432.48
			For Class 52 Rating, Deduct.....	-512.03	
			For Class 54 Rating, Add.....	706.09	
			For Class 55 Rating, Add.....	1,053.75	
			For Class 56 Rating, Add.....	1,396.76	
40 05 19 00-1176	EA	10"	Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,465.79	435.63
			For Class 52 Rating, Deduct.....	-528.63	
			For Class 54 Rating, Add.....	728.78	
			For Class 55 Rating, Add.....	1,087.52	
			For Class 56 Rating, Add.....	1,441.46	
40 05 19 00-1177	EA	10"	Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,621.49	438.79
			For Class 52 Rating, Deduct.....	-545.23	
			For Class 54 Rating, Add.....	751.48	
			For Class 55 Rating, Add.....	1,121.29	
			For Class 56 Rating, Add.....	1,486.15	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1178	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,777.18	441.95
			For Class 52 Rating, Deduct	-561.83	
			For Class 54 Rating, Add	774.17	
			For Class 55 Rating, Add	1,155.06	
			For Class 56 Rating, Add	1,530.84	
40 05 19 00-1179	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,932.88	445.11
			For Class 52 Rating, Deduct	-578.43	
			For Class 54 Rating, Add	796.86	
			For Class 55 Rating, Add	1,188.83	
			For Class 56 Rating, Add	1,575.53	
40 05 19 00-1180	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,088.57	448.25
			For Class 52 Rating, Deduct	-595.03	
			For Class 54 Rating, Add	819.56	
			For Class 55 Rating, Add	1,222.59	
			For Class 56 Rating, Add	1,620.22	
40 05 19 00-1181	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,244.26	451.41
			For Class 52 Rating, Deduct	-611.63	
			For Class 54 Rating, Add	842.25	
			For Class 55 Rating, Add	1,256.36	
			For Class 56 Rating, Add	1,664.91	
40 05 19 00-1182	EA		10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,399.95	454.57
			For Class 52 Rating, Deduct	-628.23	
			For Class 54 Rating, Add	864.95	
			For Class 55 Rating, Add	1,290.13	
			For Class 56 Rating, Add	1,709.60	
40 05 19 00-1183	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,555.65	457.72
			For Class 52 Rating, Deduct	-644.83	
			For Class 54 Rating, Add	887.64	
			For Class 55 Rating, Add	1,323.90	
			For Class 56 Rating, Add	1,754.30	
40 05 19 00-1184	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,711.35	460.88
			For Class 52 Rating, Deduct	-661.43	
			For Class 54 Rating, Add	910.34	
			For Class 55 Rating, Add	1,357.67	
			For Class 56 Rating, Add	1,798.99	
40 05 19 00-1185	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,867.04	464.04
			For Class 52 Rating, Deduct	-678.03	
			For Class 54 Rating, Add	933.03	
			For Class 55 Rating, Add	1,391.44	
			For Class 56 Rating, Add	1,843.68	
40 05 19 00-1186	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,022.74	467.20
			For Class 52 Rating, Deduct	-694.63	
			For Class 54 Rating, Add	955.72	
			For Class 55 Rating, Add	1,425.20	
			For Class 56 Rating, Add	1,888.37	
40 05 19 00-1187	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,178.43	470.35
			For Class 52 Rating, Deduct	-711.23	
			For Class 54 Rating, Add	978.42	
			For Class 55 Rating, Add	1,458.97	
			For Class 56 Rating, Add	1,933.06	
40 05 19 00-1188	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,334.12	473.51
			For Class 52 Rating, Deduct	-727.83	
			For Class 54 Rating, Add	1,001.11	
			For Class 55 Rating, Add	1,492.74	
			For Class 56 Rating, Add	1,977.75	
40 05 19 00-1189			12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1190	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,845.68	441.95
			For Class 52 Rating, Deduct	-129.37	
			For Class 54 Rating, Add	184.45	
			For Class 55 Rating, Add	278.33	
			For Class 56 Rating, Add	371.05	
40 05 19 00-1191	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,040.41	445.11
			For Class 52 Rating, Deduct	-150.26	
			For Class 54 Rating, Add	212.99	
			For Class 55 Rating, Add	320.81	
			For Class 56 Rating, Add	427.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1192	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	2,235.13	448.25
		For Class 52 Rating, Deduct		-171.15	
		For Class 54 Rating, Add		241.54	
		For Class 55 Rating, Add		363.28	
		For Class 56 Rating, Add		483.46	
40 05 19 00-1193	EA	12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	2,429.85	451.41
		For Class 52 Rating, Deduct		-192.05	
		For Class 54 Rating, Add		270.09	
		For Class 55 Rating, Add		405.75	
		For Class 56 Rating, Add		539.66	
40 05 19 00-1194	EA	12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	2,624.57	454.57
		For Class 52 Rating, Deduct		-212.94	
		For Class 54 Rating, Add		298.64	
		For Class 55 Rating, Add		448.22	
		For Class 56 Rating, Add		595.86	
40 05 19 00-1195	EA	12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	2,819.29	457.72
		For Class 52 Rating, Deduct		-233.83	
		For Class 54 Rating, Add		327.19	
		For Class 55 Rating, Add		490.69	
		For Class 56 Rating, Add		652.07	
40 05 19 00-1196	EA	12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,014.02	460.88
		For Class 52 Rating, Deduct		-254.73	
		For Class 54 Rating, Add		355.74	
		For Class 55 Rating, Add		533.16	
		For Class 56 Rating, Add		708.27	
40 05 19 00-1197	EA	12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,208.74	464.04
		For Class 52 Rating, Deduct		-275.62	
		For Class 54 Rating, Add		384.28	
		For Class 55 Rating, Add		575.63	
		For Class 56 Rating, Add		764.48	
40 05 19 00-1198	EA	12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,403.47	467.20
		For Class 52 Rating, Deduct		-296.51	
		For Class 54 Rating, Add		412.83	
		For Class 55 Rating, Add		618.11	
		For Class 56 Rating, Add		820.68	
40 05 19 00-1199	EA	12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,598.19	470.35
		For Class 52 Rating, Deduct		-317.41	
		For Class 54 Rating, Add		441.38	
		For Class 55 Rating, Add		660.58	
		For Class 56 Rating, Add		876.89	
40 05 19 00-1200	EA	12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,792.91	473.51
		For Class 52 Rating, Deduct		-338.30	
		For Class 54 Rating, Add		469.93	
		For Class 55 Rating, Add		703.05	
		For Class 56 Rating, Add		933.09	
40 05 19 00-1201	EA	12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,987.63	476.67
		For Class 52 Rating, Deduct		-359.20	
		For Class 54 Rating, Add		498.48	
		For Class 55 Rating, Add		745.52	
		For Class 56 Rating, Add		989.30	
40 05 19 00-1202	EA	12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,182.35	479.82
		For Class 52 Rating, Deduct		-380.09	
		For Class 54 Rating, Add		527.03	
		For Class 55 Rating, Add		787.99	
		For Class 56 Rating, Add		1,045.50	
40 05 19 00-1203	EA	12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,377.08	482.98
		For Class 52 Rating, Deduct		-400.98	
		For Class 54 Rating, Add		555.57	
		For Class 55 Rating, Add		830.46	
		For Class 56 Rating, Add		1,101.70	
40 05 19 00-1204	EA	12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,571.80	486.14
		For Class 52 Rating, Deduct		-421.88	
		For Class 54 Rating, Add		584.12	
		For Class 55 Rating, Add		872.93	
		For Class 56 Rating, Add		1,157.91	
40 05 19 00-1205	EA	12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,766.53	489.29
		For Class 52 Rating, Deduct		-442.77	
		For Class 54 Rating, Add		612.67	
		For Class 55 Rating, Add		915.41	
		For Class 56 Rating, Add		1,214.11	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1206	EA		12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,961.25	492.44
			For Class 52 Rating, Deduct	-463.66	
			For Class 54 Rating, Add	641.22	
			For Class 55 Rating, Add	957.88	
			For Class 56 Rating, Add	1,270.32	
40 05 19 00-1207	EA		12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,155.97	495.60
			For Class 52 Rating, Deduct	-484.56	
			For Class 54 Rating, Add	669.77	
			For Class 55 Rating, Add	1,000.35	
			For Class 56 Rating, Add	1,326.52	
40 05 19 00-1208	EA		12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,350.70	498.77
			For Class 52 Rating, Deduct	-505.45	
			For Class 54 Rating, Add	698.32	
			For Class 55 Rating, Add	1,042.82	
			For Class 56 Rating, Add	1,382.73	
40 05 19 00-1209	EA		12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,545.41	501.91
			For Class 52 Rating, Deduct	-526.34	
			For Class 54 Rating, Add	726.87	
			For Class 55 Rating, Add	1,085.29	
			For Class 56 Rating, Add	1,438.93	
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,740.14	505.08
			For Class 52 Rating, Deduct	-547.24	
			For Class 54 Rating, Add	755.41	
			For Class 55 Rating, Add	1,127.76	
			For Class 56 Rating, Add	1,495.14	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,934.86	508.24
			For Class 52 Rating, Deduct	-568.13	
			For Class 54 Rating, Add	783.96	
			For Class 55 Rating, Add	1,170.23	
			For Class 56 Rating, Add	1,551.34	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,129.58	511.40
			For Class 52 Rating, Deduct	-589.02	
			For Class 54 Rating, Add	812.51	
			For Class 55 Rating, Add	1,212.71	
			For Class 56 Rating, Add	1,607.55	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,324.31	514.55
			For Class 52 Rating, Deduct	-609.92	
			For Class 54 Rating, Add	841.06	
			For Class 55 Rating, Add	1,255.18	
			For Class 56 Rating, Add	1,663.75	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,519.03	517.71
			For Class 52 Rating, Deduct	-630.81	
			For Class 54 Rating, Add	869.61	
			For Class 55 Rating, Add	1,297.65	
			For Class 56 Rating, Add	1,719.95	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,713.76	520.87
			For Class 52 Rating, Deduct	-651.70	
			For Class 54 Rating, Add	898.16	
			For Class 55 Rating, Add	1,340.12	
			For Class 56 Rating, Add	1,776.16	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,908.48	524.03
			For Class 52 Rating, Deduct	-672.60	
			For Class 54 Rating, Add	926.70	
			For Class 55 Rating, Add	1,382.59	
			For Class 56 Rating, Add	1,832.36	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,103.21	527.17
			For Class 52 Rating, Deduct	-693.49	
			For Class 54 Rating, Add	955.25	
			For Class 55 Rating, Add	1,425.06	
			For Class 56 Rating, Add	1,888.57	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,297.92	530.33
			For Class 52 Rating, Deduct	-714.38	
			For Class 54 Rating, Add	983.80	
			For Class 55 Rating, Add	1,467.53	
			For Class 56 Rating, Add	1,944.77	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,492.64	533.49
			For Class 52 Rating, Deduct	-735.28	
			For Class 54 Rating, Add	1,012.35	
			For Class 55 Rating, Add	1,510.01	
			For Class 56 Rating, Add	2,000.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1220	EA	12"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,687.37	536.64
			For Class 52 Rating, Deduct	-756.17	
			For Class 54 Rating, Add	1,040.90	
			For Class 55 Rating, Add	1,552.48	
			For Class 56 Rating, Add	2,057.18	
40 05 19 00-1221	EA	12"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,882.09	539.80
			For Class 52 Rating, Deduct	-777.06	
			For Class 54 Rating, Add	1,069.45	
			For Class 55 Rating, Add	1,594.95	
			For Class 56 Rating, Add	2,113.39	
40 05 19 00-1222	EA	12"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,076.82	542.96
			For Class 52 Rating, Deduct	-797.96	
			For Class 54 Rating, Add	1,097.99	
			For Class 55 Rating, Add	1,637.42	
			For Class 56 Rating, Add	2,169.59	
40 05 19 00-1223	EA	12"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,271.54	546.12
			For Class 52 Rating, Deduct	-818.85	
			For Class 54 Rating, Add	1,126.54	
			For Class 55 Rating, Add	1,679.89	
			For Class 56 Rating, Add	2,225.79	
40 05 19 00-1224	EA	12"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,466.26	549.27
			For Class 52 Rating, Deduct	-839.74	
			For Class 54 Rating, Add	1,155.09	
			For Class 55 Rating, Add	1,722.36	
			For Class 56 Rating, Add	2,282.00	
40 05 19 00-1225	EA	12"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,660.99	552.43
			For Class 52 Rating, Deduct	-860.64	
			For Class 54 Rating, Add	1,183.64	
			For Class 55 Rating, Add	1,764.83	
			For Class 56 Rating, Add	2,338.20	
40 05 19 00-1226	EA	12"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,855.70	555.59
			For Class 52 Rating, Deduct	-881.53	
			For Class 54 Rating, Add	1,212.19	
			For Class 55 Rating, Add	1,807.30	
			For Class 56 Rating, Add	2,394.41	
40 05 19 00-1227	EA	12"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,050.43	558.74
			For Class 52 Rating, Deduct	-902.42	
			For Class 54 Rating, Add	1,240.74	
			For Class 55 Rating, Add	1,849.78	
			For Class 56 Rating, Add	2,450.61	
40 05 19 00-1228	EA	12"	Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,245.15	561.90
			For Class 52 Rating, Deduct	-923.32	
			For Class 54 Rating, Add	1,269.28	
			For Class 55 Rating, Add	1,892.25	
			For Class 56 Rating, Add	2,506.82	
40 05 19 00-1229			14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1230	EA	14"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,481.77	530.33
			For Class 52 Rating, Deduct	-184.61	
			For Class 54 Rating, Add	261.38	
			For Class 55 Rating, Add	393.53	
			For Class 56 Rating, Add	524.01	
40 05 19 00-1231	EA	14"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,718.12	533.49
			For Class 52 Rating, Deduct	-210.08	
			For Class 54 Rating, Add	296.17	
			For Class 55 Rating, Add	445.29	
			For Class 56 Rating, Add	592.49	
40 05 19 00-1232	EA	14"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,954.48	536.64
			For Class 52 Rating, Deduct	-235.55	
			For Class 54 Rating, Add	330.96	
			For Class 55 Rating, Add	497.04	
			For Class 56 Rating, Add	660.98	
40 05 19 00-1233	EA	14"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,190.83	539.80
			For Class 52 Rating, Deduct	-261.02	
			For Class 54 Rating, Add	365.76	
			For Class 55 Rating, Add	548.80	
			For Class 56 Rating, Add	729.46	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1234	EA	14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,427.19	542.96
		For Class 52 Rating, Deduct		-286.50	
		For Class 54 Rating, Add		400.55	
		For Class 55 Rating, Add		600.55	
		For Class 56 Rating, Add		797.95	
40 05 19 00-1235	EA	14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,663.54	546.12
		For Class 52 Rating, Deduct		-311.97	
		For Class 54 Rating, Add		435.34	
		For Class 55 Rating, Add		652.31	
		For Class 56 Rating, Add		866.43	
40 05 19 00-1236	EA	14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	3,899.89	549.27
		For Class 52 Rating, Deduct		-337.44	
		For Class 54 Rating, Add		470.14	
		For Class 55 Rating, Add		704.06	
		For Class 56 Rating, Add		934.92	
40 05 19 00-1237	EA	14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,136.25	552.43
		For Class 52 Rating, Deduct		-362.92	
		For Class 54 Rating, Add		504.93	
		For Class 55 Rating, Add		755.82	
		For Class 56 Rating, Add		1,003.41	
40 05 19 00-1238	EA	14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,372.60	555.59
		For Class 52 Rating, Deduct		-388.39	
		For Class 54 Rating, Add		539.72	
		For Class 55 Rating, Add		807.57	
		For Class 56 Rating, Add		1,071.89	
40 05 19 00-1239	EA	14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,608.96	558.74
		For Class 52 Rating, Deduct		-413.86	
		For Class 54 Rating, Add		574.52	
		For Class 55 Rating, Add		859.33	
		For Class 56 Rating, Add		1,140.38	
40 05 19 00-1240	EA	14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	4,845.31	561.90
		For Class 52 Rating, Deduct		-439.33	
		For Class 54 Rating, Add		609.31	
		For Class 55 Rating, Add		911.08	
		For Class 56 Rating, Add		1,208.86	
40 05 19 00-1241	EA	14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	5,081.67	565.06
		For Class 52 Rating, Deduct		-464.81	
		For Class 54 Rating, Add		644.10	
		For Class 55 Rating, Add		962.84	
		For Class 56 Rating, Add		1,277.35	
40 05 19 00-1242	EA	14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	5,318.02	568.21
		For Class 52 Rating, Deduct		-490.28	
		For Class 54 Rating, Add		678.89	
		For Class 55 Rating, Add		1,014.59	
		For Class 56 Rating, Add		1,345.84	
40 05 19 00-1243	EA	14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	5,554.37	571.36
		For Class 52 Rating, Deduct		-515.75	
		For Class 54 Rating, Add		713.69	
		For Class 55 Rating, Add		1,066.35	
		For Class 56 Rating, Add		1,414.32	
40 05 19 00-1244	EA	14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	5,790.73	574.52
		For Class 52 Rating, Deduct		-541.23	
		For Class 54 Rating, Add		748.48	
		For Class 55 Rating, Add		1,118.10	
		For Class 56 Rating, Add		1,482.81	
40 05 19 00-1245	EA	14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	6,027.08	577.68
		For Class 52 Rating, Deduct		-566.70	
		For Class 54 Rating, Add		783.27	
		For Class 55 Rating, Add		1,169.86	
		For Class 56 Rating, Add		1,551.29	
40 05 19 00-1246	EA	14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	6,263.43	580.83
		For Class 52 Rating, Deduct		-592.17	
		For Class 54 Rating, Add		818.07	
		For Class 55 Rating, Add		1,221.61	
		For Class 56 Rating, Add		1,619.78	
40 05 19 00-1247	EA	14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	6,499.78	583.99
		For Class 52 Rating, Deduct		-617.64	
		For Class 54 Rating, Add		852.86	
		For Class 55 Rating, Add		1,273.37	
		For Class 56 Rating, Add		1,688.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1248	EA	14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,736.13	587.15
		For Class 52 Rating, Deduct		-643.12	
		For Class 54 Rating, Add		887.65	
		For Class 55 Rating, Add		1,325.12	
		For Class 56 Rating, Add		1,756.75	
40 05 19 00-1249	EA	14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,972.50	590.32
		For Class 52 Rating, Deduct		-668.59	
		For Class 54 Rating, Add		922.45	
		For Class 55 Rating, Add		1,376.88	
		For Class 56 Rating, Add		1,825.24	
40 05 19 00-1250	EA	14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,208.85	593.46
		For Class 52 Rating, Deduct		-694.06	
		For Class 54 Rating, Add		957.24	
		For Class 55 Rating, Add		1,428.63	
		For Class 56 Rating, Add		1,893.72	
40 05 19 00-1251	EA	14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,445.21	596.63
		For Class 52 Rating, Deduct		-719.54	
		For Class 54 Rating, Add		992.03	
		For Class 55 Rating, Add		1,480.39	
		For Class 56 Rating, Add		1,962.21	
40 05 19 00-1252	EA	14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,681.56	599.79
		For Class 52 Rating, Deduct		-745.01	
		For Class 54 Rating, Add		1,026.83	
		For Class 55 Rating, Add		1,532.14	
		For Class 56 Rating, Add		2,030.69	
40 05 19 00-1253	EA	14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,917.92	602.95
		For Class 52 Rating, Deduct		-770.48	
		For Class 54 Rating, Add		1,061.62	
		For Class 55 Rating, Add		1,583.90	
		For Class 56 Rating, Add		2,099.18	
40 05 19 00-1254	EA	14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,154.26	606.09
		For Class 52 Rating, Deduct		-795.95	
		For Class 54 Rating, Add		1,096.41	
		For Class 55 Rating, Add		1,635.65	
		For Class 56 Rating, Add		2,167.66	
40 05 19 00-1255	EA	14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,390.61	609.25
		For Class 52 Rating, Deduct		-821.43	
		For Class 54 Rating, Add		1,131.20	
		For Class 55 Rating, Add		1,687.41	
		For Class 56 Rating, Add		2,236.15	
40 05 19 00-1256	EA	14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,626.97	612.41
		For Class 52 Rating, Deduct		-846.90	
		For Class 54 Rating, Add		1,166.00	
		For Class 55 Rating, Add		1,739.16	
		For Class 56 Rating, Add		2,304.63	
40 05 19 00-1257	EA	14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,863.32	615.56
		For Class 52 Rating, Deduct		-872.37	
		For Class 54 Rating, Add		1,200.79	
		For Class 55 Rating, Add		1,790.92	
		For Class 56 Rating, Add		2,373.12	
40 05 19 00-1258	EA	14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,099.68	618.72
		For Class 52 Rating, Deduct		-897.84	
		For Class 54 Rating, Add		1,235.58	
		For Class 55 Rating, Add		1,842.67	
		For Class 56 Rating, Add		2,441.60	
40 05 19 00-1259	EA	14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,336.03	621.88
		For Class 52 Rating, Deduct		-923.32	
		For Class 54 Rating, Add		1,270.38	
		For Class 55 Rating, Add		1,894.43	
		For Class 56 Rating, Add		2,510.09	
40 05 19 00-1260	EA	14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,572.38	625.04
		For Class 52 Rating, Deduct		-948.79	
		For Class 54 Rating, Add		1,305.17	
		For Class 55 Rating, Add		1,946.18	
		For Class 56 Rating, Add		2,578.57	
40 05 19 00-1261	EA	14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,808.75	628.19
		For Class 52 Rating, Deduct		-974.26	
		For Class 54 Rating, Add		1,339.96	
		For Class 55 Rating, Add		1,997.94	
		For Class 56 Rating, Add		2,647.06	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1262	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,045.09	631.35
		For Class 52 Rating, Deduct		-999.74	
		For Class 54 Rating, Add		1,374.76	
		For Class 55 Rating, Add		2,049.70	
		For Class 56 Rating, Add		2,715.55	
40 05 19 00-1263	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,281.45	634.51
		For Class 52 Rating, Deduct		-1,025.21	
		For Class 54 Rating, Add		1,409.55	
		For Class 55 Rating, Add		2,101.45	
		For Class 56 Rating, Add		2,784.03	
40 05 19 00-1264	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,517.80	637.66
		For Class 52 Rating, Deduct		-1,050.68	
		For Class 54 Rating, Add		1,444.34	
		For Class 55 Rating, Add		2,153.21	
		For Class 56 Rating, Add		2,852.52	
40 05 19 00-1265	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,754.16	640.82
		For Class 52 Rating, Deduct		-1,076.15	
		For Class 54 Rating, Add		1,479.13	
		For Class 55 Rating, Add		2,204.96	
		For Class 56 Rating, Add		2,921.00	
40 05 19 00-1266	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,990.51	643.97
		For Class 52 Rating, Deduct		-1,101.63	
		For Class 54 Rating, Add		1,513.93	
		For Class 55 Rating, Add		2,256.72	
		For Class 56 Rating, Add		2,989.49	
40 05 19 00-1267	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,226.86	647.13
		For Class 52 Rating, Deduct		-1,127.10	
		For Class 54 Rating, Add		1,548.72	
		For Class 55 Rating, Add		2,308.47	
		For Class 56 Rating, Add		3,057.97	
40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1269	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,903.58	606.09
		For Class 52 Rating, Deduct		-218.38	
		For Class 54 Rating, Add		308.81	
		For Class 55 Rating, Add		464.75	
		For Class 56 Rating, Add		618.71	
40 05 19 00-1270	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,178.96	609.25
		For Class 52 Rating, Deduct		-248.14	
		For Class 54 Rating, Add		349.46	
		For Class 55 Rating, Add		525.21	
		For Class 56 Rating, Add		698.71	
40 05 19 00-1271	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,454.35	612.41
		For Class 52 Rating, Deduct		-277.91	
		For Class 54 Rating, Add		390.10	
		For Class 55 Rating, Add		585.67	
		For Class 56 Rating, Add		778.71	
40 05 19 00-1272	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,729.73	615.56
		For Class 52 Rating, Deduct		-307.68	
		For Class 54 Rating, Add		430.75	
		For Class 55 Rating, Add		646.13	
		For Class 56 Rating, Add		858.71	
40 05 19 00-1273	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,005.12	618.72
		For Class 52 Rating, Deduct		-337.44	
		For Class 54 Rating, Add		471.40	
		For Class 55 Rating, Add		706.59	
		For Class 56 Rating, Add		938.71	
40 05 19 00-1274	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,280.50	621.88
		For Class 52 Rating, Deduct		-367.21	
		For Class 54 Rating, Add		512.05	
		For Class 55 Rating, Add		767.05	
		For Class 56 Rating, Add		1,018.71	
40 05 19 00-1275	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,555.88	625.04
		For Class 52 Rating, Deduct		-396.97	
		For Class 54 Rating, Add		552.69	
		For Class 55 Rating, Add		827.50	
		For Class 56 Rating, Add		1,098.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1276	EA	16"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,831.27	628.19
			For Class 52 Rating, Deduct	-426.74	
			For Class 54 Rating, Add	593.34	
			For Class 55 Rating, Add	887.96	
			For Class 56 Rating, Add	1,178.71	
40 05 19 00-1277	EA	16"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,106.64	631.35
			For Class 52 Rating, Deduct	-456.51	
			For Class 54 Rating, Add	633.99	
			For Class 55 Rating, Add	948.42	
			For Class 56 Rating, Add	1,258.70	
40 05 19 00-1278	EA	16"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,382.03	634.51
			For Class 52 Rating, Deduct	-486.27	
			For Class 54 Rating, Add	674.64	
			For Class 55 Rating, Add	1,008.88	
			For Class 56 Rating, Add	1,338.70	
40 05 19 00-1279	EA	16"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,657.41	637.66
			For Class 52 Rating, Deduct	-516.04	
			For Class 54 Rating, Add	715.28	
			For Class 55 Rating, Add	1,069.34	
			For Class 56 Rating, Add	1,418.70	
40 05 19 00-1280	EA	16"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,932.80	640.82
			For Class 52 Rating, Deduct	-545.80	
			For Class 54 Rating, Add	755.93	
			For Class 55 Rating, Add	1,129.80	
			For Class 56 Rating, Add	1,498.70	
40 05 19 00-1281	EA	16"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,208.18	643.97
			For Class 52 Rating, Deduct	-575.57	
			For Class 54 Rating, Add	796.58	
			For Class 55 Rating, Add	1,190.26	
			For Class 56 Rating, Add	1,578.70	
40 05 19 00-1282	EA	16"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,483.56	647.13
			For Class 52 Rating, Deduct	-605.34	
			For Class 54 Rating, Add	837.23	
			For Class 55 Rating, Add	1,250.71	
			For Class 56 Rating, Add	1,658.70	
40 05 19 00-1283	EA	16"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,758.95	650.28
			For Class 52 Rating, Deduct	-635.10	
			For Class 54 Rating, Add	877.87	
			For Class 55 Rating, Add	1,311.17	
			For Class 56 Rating, Add	1,738.70	
40 05 19 00-1284	EA	16"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,034.33	653.44
			For Class 52 Rating, Deduct	-664.87	
			For Class 54 Rating, Add	918.52	
			For Class 55 Rating, Add	1,371.63	
			For Class 56 Rating, Add	1,818.70	
40 05 19 00-1285	EA	16"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,309.71	656.60
			For Class 52 Rating, Deduct	-694.63	
			For Class 54 Rating, Add	959.17	
			For Class 55 Rating, Add	1,432.09	
			For Class 56 Rating, Add	1,898.70	
40 05 19 00-1286	EA	16"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,585.09	659.75
			For Class 52 Rating, Deduct	-724.40	
			For Class 54 Rating, Add	999.81	
			For Class 55 Rating, Add	1,492.55	
			For Class 56 Rating, Add	1,978.70	
40 05 19 00-1287	EA	16"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,860.47	662.91
			For Class 52 Rating, Deduct	-754.17	
			For Class 54 Rating, Add	1,040.46	
			For Class 55 Rating, Add	1,553.01	
			For Class 56 Rating, Add	2,058.70	
40 05 19 00-1288	EA	16"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,135.86	666.07
			For Class 52 Rating, Deduct	-783.93	
			For Class 54 Rating, Add	1,081.11	
			For Class 55 Rating, Add	1,613.47	
			For Class 56 Rating, Add	2,138.70	
40 05 19 00-1289	EA	16"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,411.24	669.23
			For Class 52 Rating, Deduct	-813.70	
			For Class 54 Rating, Add	1,121.76	
			For Class 55 Rating, Add	1,673.92	
			For Class 56 Rating, Add	2,218.69	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,686.63	672.38
			For Class 52 Rating, Deduct	-843.46	
			For Class 54 Rating, Add	1,162.40	
			For Class 55 Rating, Add	1,734.38	
			For Class 56 Rating, Add	2,298.69	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,962.01	675.54
			For Class 52 Rating, Deduct	-873.23	
			For Class 54 Rating, Add	1,203.05	
			For Class 55 Rating, Add	1,794.84	
			For Class 56 Rating, Add	2,378.69	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,237.40	678.71
			For Class 52 Rating, Deduct	-903.00	
			For Class 54 Rating, Add	1,243.70	
			For Class 55 Rating, Add	1,855.30	
			For Class 56 Rating, Add	2,458.69	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,512.77	681.87
			For Class 52 Rating, Deduct	-932.76	
			For Class 54 Rating, Add	1,284.35	
			For Class 55 Rating, Add	1,915.76	
			For Class 56 Rating, Add	2,538.69	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,788.15	685.00
			For Class 52 Rating, Deduct	-962.53	
			For Class 54 Rating, Add	1,324.99	
			For Class 55 Rating, Add	1,976.22	
			For Class 56 Rating, Add	2,618.69	
40 05 19 00-1295	EA		16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,063.54	688.17
			For Class 52 Rating, Deduct	-992.29	
			For Class 54 Rating, Add	1,365.64	
			For Class 55 Rating, Add	2,036.68	
			For Class 56 Rating, Add	2,698.69	
40 05 19 00-1296	EA		16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,338.92	691.33
			For Class 52 Rating, Deduct	-1,022.06	
			For Class 54 Rating, Add	1,406.29	
			For Class 55 Rating, Add	2,097.13	
			For Class 56 Rating, Add	2,778.69	
40 05 19 00-1297	EA		16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,614.31	694.48
			For Class 52 Rating, Deduct	-1,051.83	
			For Class 54 Rating, Add	1,446.94	
			For Class 55 Rating, Add	2,157.59	
			For Class 56 Rating, Add	2,858.69	
40 05 19 00-1298	EA		16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,889.69	697.64
			For Class 52 Rating, Deduct	-1,081.59	
			For Class 54 Rating, Add	1,487.58	
			For Class 55 Rating, Add	2,218.05	
			For Class 56 Rating, Add	2,938.69	
40 05 19 00-1299	EA		16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,165.07	700.80
			For Class 52 Rating, Deduct	-1,111.36	
			For Class 54 Rating, Add	1,528.23	
			For Class 55 Rating, Add	2,278.51	
			For Class 56 Rating, Add	3,018.69	
40 05 19 00-1300	EA		16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,440.46	703.96
			For Class 52 Rating, Deduct	-1,141.12	
			For Class 54 Rating, Add	1,568.88	
			For Class 55 Rating, Add	2,338.97	
			For Class 56 Rating, Add	3,098.69	
40 05 19 00-1301	EA		16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,715.83	707.11
			For Class 52 Rating, Deduct	-1,170.89	
			For Class 54 Rating, Add	1,609.52	
			For Class 55 Rating, Add	2,399.43	
			For Class 56 Rating, Add	3,178.68	
40 05 19 00-1302	EA		16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,991.21	710.27
			For Class 52 Rating, Deduct	-1,200.66	
			For Class 54 Rating, Add	1,650.17	
			For Class 55 Rating, Add	2,459.88	
			For Class 56 Rating, Add	3,258.68	
40 05 19 00-1303	EA		16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,266.59	713.43
			For Class 52 Rating, Deduct	-1,230.42	
			For Class 54 Rating, Add	1,690.82	
			For Class 55 Rating, Add	2,520.34	
			For Class 56 Rating, Add	3,338.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1304	EA		16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,541.97	716.58
			For Class 52 Rating, Deduct	-1,260.19	
			For Class 54 Rating, Add	1,731.47	
			For Class 55 Rating, Add	2,580.80	
			For Class 56 Rating, Add	3,418.68	
40 05 19 00-1305	EA		16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,817.36	719.74
			For Class 52 Rating, Deduct	-1,289.95	
			For Class 54 Rating, Add	1,772.11	
			For Class 55 Rating, Add	2,641.26	
			For Class 56 Rating, Add	3,498.68	
40 05 19 00-1306	EA		16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,092.74	722.89
			For Class 52 Rating, Deduct	-1,319.72	
			For Class 54 Rating, Add	1,812.76	
			For Class 55 Rating, Add	2,701.72	
			For Class 56 Rating, Add	3,578.68	
40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1308	EA		18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,363.75	683.12
			For Class 52 Rating, Deduct	-256.16	
			For Class 54 Rating, Add	361.73	
			For Class 55 Rating, Add	544.15	
			For Class 56 Rating, Add	724.23	
40 05 19 00-1309	EA		18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,680.76	686.28
			For Class 52 Rating, Deduct	-290.50	
			For Class 54 Rating, Add	408.62	
			For Class 55 Rating, Add	613.89	
			For Class 56 Rating, Add	816.51	
40 05 19 00-1310	EA		18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,997.77	689.42
			For Class 52 Rating, Deduct	-324.85	
			For Class 54 Rating, Add	455.51	
			For Class 55 Rating, Add	683.63	
			For Class 56 Rating, Add	908.79	
40 05 19 00-1311	EA		18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,314.79	692.58
			For Class 52 Rating, Deduct	-359.20	
			For Class 54 Rating, Add	502.40	
			For Class 55 Rating, Add	753.37	
			For Class 56 Rating, Add	1,001.07	
40 05 19 00-1312	EA		18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,631.80	695.75
			For Class 52 Rating, Deduct	-393.54	
			For Class 54 Rating, Add	549.30	
			For Class 55 Rating, Add	823.11	
			For Class 56 Rating, Add	1,093.35	
40 05 19 00-1313	EA		18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,948.82	698.89
			For Class 52 Rating, Deduct	-427.89	
			For Class 54 Rating, Add	596.19	
			For Class 55 Rating, Add	892.86	
			For Class 56 Rating, Add	1,185.63	
40 05 19 00-1314	EA		18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,265.83	702.05
			For Class 52 Rating, Deduct	-462.23	
			For Class 54 Rating, Add	643.08	
			For Class 55 Rating, Add	962.60	
			For Class 56 Rating, Add	1,277.91	
40 05 19 00-1315	EA		18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,582.84	705.22
			For Class 52 Rating, Deduct	-496.58	
			For Class 54 Rating, Add	689.97	
			For Class 55 Rating, Add	1,032.34	
			For Class 56 Rating, Add	1,370.19	
40 05 19 00-1316	EA		18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,899.85	708.38
			For Class 52 Rating, Deduct	-530.92	
			For Class 54 Rating, Add	736.86	
			For Class 55 Rating, Add	1,102.08	
			For Class 56 Rating, Add	1,462.47	
40 05 19 00-1317	EA		18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,216.86	711.53
			For Class 52 Rating, Deduct	-565.27	
			For Class 54 Rating, Add	783.76	
			For Class 55 Rating, Add	1,171.82	
			For Class 56 Rating, Add	1,554.75	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,533.88	714.69
			For Class 52 Rating, Deduct	-599.61	
			For Class 54 Rating, Add	830.65	
			For Class 55 Rating, Add	1,241.57	
			For Class 56 Rating, Add	1,647.03	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,850.89	717.85
			For Class 52 Rating, Deduct	-633.96	
			For Class 54 Rating, Add	877.54	
			For Class 55 Rating, Add	1,311.31	
			For Class 56 Rating, Add	1,739.31	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,167.91	721.00
			For Class 52 Rating, Deduct	-668.30	
			For Class 54 Rating, Add	924.43	
			For Class 55 Rating, Add	1,381.05	
			For Class 56 Rating, Add	1,831.59	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,484.92	724.16
			For Class 52 Rating, Deduct	-702.65	
			For Class 54 Rating, Add	971.32	
			For Class 55 Rating, Add	1,450.79	
			For Class 56 Rating, Add	1,923.87	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,801.93	727.32
			For Class 52 Rating, Deduct	-736.99	
			For Class 54 Rating, Add	1,018.21	
			For Class 55 Rating, Add	1,520.53	
			For Class 56 Rating, Add	2,016.15	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,118.95	730.48
			For Class 52 Rating, Deduct	-771.34	
			For Class 54 Rating, Add	1,065.11	
			For Class 55 Rating, Add	1,590.28	
			For Class 56 Rating, Add	2,108.43	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,435.96	733.62
			For Class 52 Rating, Deduct	-805.68	
			For Class 54 Rating, Add	1,112.00	
			For Class 55 Rating, Add	1,660.02	
			For Class 56 Rating, Add	2,200.71	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,752.98	736.78
			For Class 52 Rating, Deduct	-840.03	
			For Class 54 Rating, Add	1,158.89	
			For Class 55 Rating, Add	1,729.76	
			For Class 56 Rating, Add	2,293.00	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,069.99	739.94
			For Class 52 Rating, Deduct	-874.38	
			For Class 54 Rating, Add	1,205.78	
			For Class 55 Rating, Add	1,799.50	
			For Class 56 Rating, Add	2,385.28	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,387.00	743.09
			For Class 52 Rating, Deduct	-908.72	
			For Class 54 Rating, Add	1,252.68	
			For Class 55 Rating, Add	1,869.25	
			For Class 56 Rating, Add	2,477.56	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,704.02	746.25
			For Class 52 Rating, Deduct	-943.07	
			For Class 54 Rating, Add	1,299.57	
			For Class 55 Rating, Add	1,938.99	
			For Class 56 Rating, Add	2,569.84	
40 05 19 00-1329	EA		18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,021.03	749.41
			For Class 52 Rating, Deduct	-977.41	
			For Class 54 Rating, Add	1,346.46	
			For Class 55 Rating, Add	2,008.73	
			For Class 56 Rating, Add	2,662.12	
40 05 19 00-1330	EA		18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,338.05	752.57
			For Class 52 Rating, Deduct	-1,011.76	
			For Class 54 Rating, Add	1,393.35	
			For Class 55 Rating, Add	2,078.47	
			For Class 56 Rating, Add	2,754.40	
40 05 19 00-1331	EA		18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,655.06	755.72
			For Class 52 Rating, Deduct	-1,046.10	
			For Class 54 Rating, Add	1,440.24	
			For Class 55 Rating, Add	2,148.22	
			For Class 56 Rating, Add	2,846.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1332	EA		18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,972.08	758.88
			For Class 52 Rating, Deduct	-1,080.45	
			For Class 54 Rating, Add	1,487.14	
			For Class 55 Rating, Add	2,217.96	
			For Class 56 Rating, Add	2,938.96	
40 05 19 00-1333	EA		18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,289.08	762.04
			For Class 52 Rating, Deduct	-1,114.79	
			For Class 54 Rating, Add	1,534.03	
			For Class 55 Rating, Add	2,287.70	
			For Class 56 Rating, Add	3,031.24	
40 05 19 00-1334	EA		18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,606.09	765.20
			For Class 52 Rating, Deduct	-1,149.14	
			For Class 54 Rating, Add	1,580.92	
			For Class 55 Rating, Add	2,357.44	
			For Class 56 Rating, Add	3,123.52	
40 05 19 00-1335	EA		18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,923.11	768.34
			For Class 52 Rating, Deduct	-1,183.48	
			For Class 54 Rating, Add	1,627.81	
			For Class 55 Rating, Add	2,427.18	
			For Class 56 Rating, Add	3,215.80	
40 05 19 00-1336	EA		18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,240.12	771.50
			For Class 52 Rating, Deduct	-1,217.83	
			For Class 54 Rating, Add	1,674.70	
			For Class 55 Rating, Add	2,496.93	
			For Class 56 Rating, Add	3,308.08	
40 05 19 00-1337	EA		18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,557.14	774.66
			For Class 52 Rating, Deduct	-1,252.17	
			For Class 54 Rating, Add	1,721.59	
			For Class 55 Rating, Add	2,566.67	
			For Class 56 Rating, Add	3,400.36	
40 05 19 00-1338	EA		18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,874.15	777.81
			For Class 52 Rating, Deduct	-1,286.52	
			For Class 54 Rating, Add	1,768.49	
			For Class 55 Rating, Add	2,636.41	
			For Class 56 Rating, Add	3,492.64	
40 05 19 00-1339	EA		18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,191.16	780.97
			For Class 52 Rating, Deduct	-1,320.86	
			For Class 54 Rating, Add	1,815.38	
			For Class 55 Rating, Add	2,706.15	
			For Class 56 Rating, Add	3,584.92	
40 05 19 00-1340	EA		18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,508.18	784.13
			For Class 52 Rating, Deduct	-1,355.21	
			For Class 54 Rating, Add	1,862.27	
			For Class 55 Rating, Add	2,775.89	
			For Class 56 Rating, Add	3,677.20	
40 05 19 00-1341	EA		18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,825.18	787.30
			For Class 52 Rating, Deduct	-1,389.56	
			For Class 54 Rating, Add	1,909.16	
			For Class 55 Rating, Add	2,845.64	
			For Class 56 Rating, Add	3,769.48	
40 05 19 00-1342	EA		18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,142.20	790.44
			For Class 52 Rating, Deduct	-1,423.90	
			For Class 54 Rating, Add	1,956.05	
			For Class 55 Rating, Add	2,915.38	
			For Class 56 Rating, Add	3,861.76	
40 05 19 00-1343	EA		18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,459.21	793.61
			For Class 52 Rating, Deduct	-1,458.25	
			For Class 54 Rating, Add	2,002.95	
			For Class 55 Rating, Add	2,985.12	
			For Class 56 Rating, Add	3,954.04	
40 05 19 00-1344	EA		18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,776.23	796.77
			For Class 52 Rating, Deduct	-1,492.59	
			For Class 54 Rating, Add	2,049.84	
			For Class 55 Rating, Add	3,054.86	
			For Class 56 Rating, Add	4,046.32	
40 05 19 00-1345	EA		18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,093.24	799.91
			For Class 52 Rating, Deduct	-1,526.94	
			For Class 54 Rating, Add	2,096.73	
			For Class 55 Rating, Add	3,124.60	
			For Class 56 Rating, Add	4,138.60	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1346	20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)			
40 05 19 00-1347	EA 20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,923.81		779.72
	For Class 52 Rating, Deduct	-301.67		
	For Class 54 Rating, Add	425.54		
	For Class 55 Rating, Add	639.91		
	For Class 56 Rating, Add	851.54		
40 05 19 00-1348	EA 20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,287.66		782.88
	For Class 52 Rating, Deduct	-341.16		
	For Class 54 Rating, Add	479.46		
	For Class 55 Rating, Add	720.10		
	For Class 56 Rating, Add	957.64		
40 05 19 00-1349	EA 20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,651.50		786.03
	For Class 52 Rating, Deduct	-380.66		
	For Class 54 Rating, Add	533.37		
	For Class 55 Rating, Add	800.29		
	For Class 56 Rating, Add	1,063.74		
40 05 19 00-1350	EA 20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,015.35		789.19
	For Class 52 Rating, Deduct	-420.16		
	For Class 54 Rating, Add	587.29		
	For Class 55 Rating, Add	880.47		
	For Class 56 Rating, Add	1,169.83		
40 05 19 00-1351	EA 20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,379.19		792.35
	For Class 52 Rating, Deduct	-459.65		
	For Class 54 Rating, Add	641.21		
	For Class 55 Rating, Add	960.66		
	For Class 56 Rating, Add	1,275.93		
40 05 19 00-1352	EA 20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,743.05		795.50
	For Class 52 Rating, Deduct	-499.15		
	For Class 54 Rating, Add	695.13		
	For Class 55 Rating, Add	1,040.85		
	For Class 56 Rating, Add	1,382.03		
40 05 19 00-1353	EA 20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,106.89		798.65
	For Class 52 Rating, Deduct	-538.65		
	For Class 54 Rating, Add	749.04		
	For Class 55 Rating, Add	1,121.03		
	For Class 56 Rating, Add	1,488.12		
40 05 19 00-1354	EA 20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,470.75		801.81
	For Class 52 Rating, Deduct	-578.15		
	For Class 54 Rating, Add	802.96		
	For Class 55 Rating, Add	1,201.22		
	For Class 56 Rating, Add	1,594.22		
40 05 19 00-1355	EA 20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,834.59		804.97
	For Class 52 Rating, Deduct	-617.64		
	For Class 54 Rating, Add	856.88		
	For Class 55 Rating, Add	1,281.40		
	For Class 56 Rating, Add	1,700.31		
40 05 19 00-1356	EA 20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,198.45		808.12
	For Class 52 Rating, Deduct	-657.14		
	For Class 54 Rating, Add	910.79		
	For Class 55 Rating, Add	1,361.59		
	For Class 56 Rating, Add	1,806.41		
40 05 19 00-1357	EA 20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,562.28		811.28
	For Class 52 Rating, Deduct	-696.64		
	For Class 54 Rating, Add	964.71		
	For Class 55 Rating, Add	1,441.78		
	For Class 56 Rating, Add	1,912.51		
40 05 19 00-1358	EA 20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,926.13		814.44
	For Class 52 Rating, Deduct	-736.14		
	For Class 54 Rating, Add	1,018.63		
	For Class 55 Rating, Add	1,521.96		
	For Class 56 Rating, Add	2,018.60		
40 05 19 00-1359	EA 20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,289.98		817.59
	For Class 52 Rating, Deduct	-775.63		
	For Class 54 Rating, Add	1,072.55		
	For Class 55 Rating, Add	1,602.15		
	For Class 56 Rating, Add	2,124.70		
40 05 19 00-1360	EA 20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,653.83		820.75
	For Class 52 Rating, Deduct	-815.13		
	For Class 54 Rating, Add	1,126.46		
	For Class 55 Rating, Add	1,682.34		
	For Class 56 Rating, Add	2,230.80		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1361	EA	20"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,017.68	823.91
			For Class 52 Rating, Deduct.....	-854.63	
			For Class 54 Rating, Add.....	1,180.38	
			For Class 55 Rating, Add.....	1,762.52	
			For Class 56 Rating, Add.....	2,336.89	
40 05 19 00-1362	EA	20"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,381.53	827.07
			For Class 52 Rating, Deduct.....	-894.12	
			For Class 54 Rating, Add.....	1,234.30	
			For Class 55 Rating, Add.....	1,842.71	
			For Class 56 Rating, Add.....	2,442.99	
40 05 19 00-1363	EA	20"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,745.37	830.22
			For Class 52 Rating, Deduct.....	-933.62	
			For Class 54 Rating, Add.....	1,288.21	
			For Class 55 Rating, Add.....	1,922.89	
			For Class 56 Rating, Add.....	2,549.09	
40 05 19 00-1364	EA	20"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,109.23	833.38
			For Class 52 Rating, Deduct.....	-973.12	
			For Class 54 Rating, Add.....	1,342.13	
			For Class 55 Rating, Add.....	2,003.08	
			For Class 56 Rating, Add.....	2,655.18	
40 05 19 00-1365	EA	20"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,473.06	836.54
			For Class 52 Rating, Deduct.....	-1,012.61	
			For Class 54 Rating, Add.....	1,396.05	
			For Class 55 Rating, Add.....	2,083.27	
			For Class 56 Rating, Add.....	2,761.28	
40 05 19 00-1366	EA	20"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,836.92	839.70
			For Class 52 Rating, Deduct.....	-1,052.11	
			For Class 54 Rating, Add.....	1,449.97	
			For Class 55 Rating, Add.....	2,163.45	
			For Class 56 Rating, Add.....	2,867.38	
40 05 19 00-1367	EA	20"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,200.76	842.84
			For Class 52 Rating, Deduct.....	-1,091.61	
			For Class 54 Rating, Add.....	1,503.88	
			For Class 55 Rating, Add.....	2,243.64	
			For Class 56 Rating, Add.....	2,973.47	
40 05 19 00-1368	EA	20"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,564.62	846.00
			For Class 52 Rating, Deduct.....	-1,131.11	
			For Class 54 Rating, Add.....	1,557.80	
			For Class 55 Rating, Add.....	2,323.83	
			For Class 56 Rating, Add.....	3,079.57	
40 05 19 00-1369	EA	20"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,928.46	849.16
			For Class 52 Rating, Deduct.....	-1,170.60	
			For Class 54 Rating, Add.....	1,611.72	
			For Class 55 Rating, Add.....	2,404.01	
			For Class 56 Rating, Add.....	3,185.66	
40 05 19 00-1370	EA	20"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,292.31	852.31
			For Class 52 Rating, Deduct.....	-1,210.10	
			For Class 54 Rating, Add.....	1,665.63	
			For Class 55 Rating, Add.....	2,484.20	
			For Class 56 Rating, Add.....	3,291.76	
40 05 19 00-1371	EA	20"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,656.16	855.47
			For Class 52 Rating, Deduct.....	-1,249.60	
			For Class 54 Rating, Add.....	1,719.55	
			For Class 55 Rating, Add.....	2,564.38	
			For Class 56 Rating, Add.....	3,397.86	
40 05 19 00-1372	EA	20"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,020.01	858.63
			For Class 52 Rating, Deduct.....	-1,289.10	
			For Class 54 Rating, Add.....	1,773.47	
			For Class 55 Rating, Add.....	2,644.57	
			For Class 56 Rating, Add.....	3,503.95	
40 05 19 00-1373	EA	20"	Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,383.85	861.80
			For Class 52 Rating, Deduct.....	-1,328.59	
			For Class 54 Rating, Add.....	1,827.39	
			For Class 55 Rating, Add.....	2,724.76	
			For Class 56 Rating, Add.....	3,610.05	
40 05 19 00-1374	EA	20"	Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,747.70	864.94
			For Class 52 Rating, Deduct.....	-1,368.09	
			For Class 54 Rating, Add.....	1,881.30	
			For Class 55 Rating, Add.....	2,804.94	
			For Class 56 Rating, Add.....	3,716.15	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1375	EA		20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,111.54	868.11
			For Class 52 Rating, Deduct	-1,407.59	
			For Class 54 Rating, Add	1,935.22	
			For Class 55 Rating, Add	2,885.13	
			For Class 56 Rating, Add	3,822.24	
40 05 19 00-1376	EA		20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,475.40	871.27
			For Class 52 Rating, Deduct	-1,447.08	
			For Class 54 Rating, Add	1,989.14	
			For Class 55 Rating, Add	2,965.32	
			For Class 56 Rating, Add	3,928.34	
40 05 19 00-1377	EA		20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,839.24	874.41
			For Class 52 Rating, Deduct	-1,486.58	
			For Class 54 Rating, Add	2,043.05	
			For Class 55 Rating, Add	3,045.50	
			For Class 56 Rating, Add	4,034.43	
40 05 19 00-1378	EA		20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,203.10	877.57
			For Class 52 Rating, Deduct	-1,526.08	
			For Class 54 Rating, Add	2,096.97	
			For Class 55 Rating, Add	3,125.69	
			For Class 56 Rating, Add	4,140.53	
40 05 19 00-1379	EA		20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,566.94	880.73
			For Class 52 Rating, Deduct	-1,565.58	
			For Class 54 Rating, Add	2,150.89	
			For Class 55 Rating, Add	3,205.87	
			For Class 56 Rating, Add	4,246.63	
40 05 19 00-1380	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,930.80	883.89
			For Class 52 Rating, Deduct	-1,605.07	
			For Class 54 Rating, Add	2,204.81	
			For Class 55 Rating, Add	3,286.06	
			For Class 56 Rating, Add	4,352.73	
40 05 19 00-1381	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,294.64	887.04
			For Class 52 Rating, Deduct	-1,644.57	
			For Class 54 Rating, Add	2,258.72	
			For Class 55 Rating, Add	3,366.25	
			For Class 56 Rating, Add	4,458.82	
40 05 19 00-1382	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,658.48	890.20
			For Class 52 Rating, Deduct	-1,684.07	
			For Class 54 Rating, Add	2,312.64	
			For Class 55 Rating, Add	3,446.43	
			For Class 56 Rating, Add	4,564.92	
40 05 19 00-1383	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,022.33	893.36
			For Class 52 Rating, Deduct	-1,723.56	
			For Class 54 Rating, Add	2,366.56	
			For Class 55 Rating, Add	3,526.62	
			For Class 56 Rating, Add	4,671.01	
40 05 19 00-1384	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,386.18	896.51
			For Class 52 Rating, Deduct	-1,763.06	
			For Class 54 Rating, Add	2,420.47	
			For Class 55 Rating, Add	3,606.81	
			For Class 56 Rating, Add	4,777.11	

40 05 19 00-1385 24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-1028)

40 05 19 00-1386	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,820.75	921.76
			For Class 52 Rating, Deduct	-376.65	
			For Class 54 Rating, Add	530.38	
			For Class 55 Rating, Add	797.10	
			For Class 56 Rating, Add	1,060.40	
40 05 19 00-1387	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,270.46	924.92
			For Class 52 Rating, Deduct	-425.60	
			For Class 54 Rating, Add	597.18	
			For Class 55 Rating, Add	896.43	
			For Class 56 Rating, Add	1,191.82	
40 05 19 00-1388	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,720.16	928.08
			For Class 52 Rating, Deduct	-474.54	
			For Class 54 Rating, Add	663.97	
			For Class 55 Rating, Add	995.77	
			For Class 56 Rating, Add	1,323.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1389	EA	24"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,169.88	931.23
			For Class 52 Rating, Deduct.....	-523.48	
			For Class 54 Rating, Add.....	730.77	
			For Class 55 Rating, Add.....	1,095.10	
			For Class 56 Rating, Add.....	1,454.67	
40 05 19 00-1390	EA	24"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,619.59	934.39
			For Class 52 Rating, Deduct.....	-572.42	
			For Class 54 Rating, Add.....	797.57	
			For Class 55 Rating, Add.....	1,194.43	
			For Class 56 Rating, Add.....	1,586.10	
40 05 19 00-1391	EA	24"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,069.31	937.55
			For Class 52 Rating, Deduct.....	-621.36	
			For Class 54 Rating, Add.....	864.36	
			For Class 55 Rating, Add.....	1,293.77	
			For Class 56 Rating, Add.....	1,717.53	
40 05 19 00-1392	EA	24"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,519.01	940.71
			For Class 52 Rating, Deduct.....	-670.31	
			For Class 54 Rating, Add.....	931.16	
			For Class 55 Rating, Add.....	1,393.10	
			For Class 56 Rating, Add.....	1,848.95	
40 05 19 00-1393	EA	24"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,968.71	943.86
			For Class 52 Rating, Deduct.....	-719.25	
			For Class 54 Rating, Add.....	997.95	
			For Class 55 Rating, Add.....	1,492.43	
			For Class 56 Rating, Add.....	1,980.38	
40 05 19 00-1394	EA	24"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,418.43	947.02
			For Class 52 Rating, Deduct.....	-768.19	
			For Class 54 Rating, Add.....	1,064.75	
			For Class 55 Rating, Add.....	1,591.77	
			For Class 56 Rating, Add.....	2,111.80	
40 05 19 00-1395	EA	24"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,868.14	950.19
			For Class 52 Rating, Deduct.....	-817.13	
			For Class 54 Rating, Add.....	1,131.55	
			For Class 55 Rating, Add.....	1,691.10	
			For Class 56 Rating, Add.....	2,243.23	
40 05 19 00-1396	EA	24"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,317.86	953.32
			For Class 52 Rating, Deduct.....	-866.08	
			For Class 54 Rating, Add.....	1,198.34	
			For Class 55 Rating, Add.....	1,790.44	
			For Class 56 Rating, Add.....	2,374.66	
40 05 19 00-1397	EA	24"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,767.57	956.48
			For Class 52 Rating, Deduct.....	-915.02	
			For Class 54 Rating, Add.....	1,265.14	
			For Class 55 Rating, Add.....	1,889.77	
			For Class 56 Rating, Add.....	2,506.08	
40 05 19 00-1398	EA	24"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,217.29	959.65
			For Class 52 Rating, Deduct.....	-963.96	
			For Class 54 Rating, Add.....	1,331.94	
			For Class 55 Rating, Add.....	1,989.11	
			For Class 56 Rating, Add.....	2,637.51	
40 05 19 00-1399	EA	24"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,666.99	962.81
			For Class 52 Rating, Deduct.....	-1,012.90	
			For Class 54 Rating, Add.....	1,398.73	
			For Class 55 Rating, Add.....	2,088.44	
			For Class 56 Rating, Add.....	2,768.93	
40 05 19 00-1400	EA	24"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,116.69	965.96
			For Class 52 Rating, Deduct.....	-1,061.64	
			For Class 54 Rating, Add.....	1,465.53	
			For Class 55 Rating, Add.....	2,187.77	
			For Class 56 Rating, Add.....	2,900.36	
40 05 19 00-1401	EA	24"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,566.41	969.12
			For Class 52 Rating, Deduct.....	-1,110.79	
			For Class 54 Rating, Add.....	1,532.33	
			For Class 55 Rating, Add.....	2,287.11	
			For Class 56 Rating, Add.....	3,031.79	
40 05 19 00-1402	EA	24"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,016.12	972.28
			For Class 52 Rating, Deduct.....	-1,159.73	
			For Class 54 Rating, Add.....	1,599.12	
			For Class 55 Rating, Add.....	2,386.44	
			For Class 56 Rating, Add.....	3,163.21	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1403	EA		24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,465.84	975.43
			For Class 52 Rating, Deduct	-1,208.67	
			For Class 54 Rating, Add	1,665.92	
			For Class 55 Rating, Add	2,485.77	
			For Class 56 Rating, Add	3,294.64	
40 05 19 00-1404	EA		24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,915.55	978.59
			For Class 52 Rating, Deduct	-1,257.61	
			For Class 54 Rating, Add	1,732.72	
			For Class 55 Rating, Add	2,585.11	
			For Class 56 Rating, Add	3,426.07	
40 05 19 00-1405	EA		24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,365.25	981.75
			For Class 52 Rating, Deduct	-1,306.55	
			For Class 54 Rating, Add	1,799.51	
			For Class 55 Rating, Add	2,684.44	
			For Class 56 Rating, Add	3,557.49	
40 05 19 00-1406	EA		24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,814.97	984.91
			For Class 52 Rating, Deduct	-1,355.50	
			For Class 54 Rating, Add	1,866.31	
			For Class 55 Rating, Add	2,783.77	
			For Class 56 Rating, Add	3,688.92	
40 05 19 00-1407	EA		24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,264.68	988.06
			For Class 52 Rating, Deduct	-1,404.44	
			For Class 54 Rating, Add	1,933.11	
			For Class 55 Rating, Add	2,883.11	
			For Class 56 Rating, Add	3,820.34	
40 05 19 00-1408	EA		24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,714.39	991.22
			For Class 52 Rating, Deduct	-1,453.38	
			For Class 54 Rating, Add	1,999.90	
			For Class 55 Rating, Add	2,982.44	
			For Class 56 Rating, Add	3,951.77	
40 05 19 00-1409	EA		24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,164.10	994.38
			For Class 52 Rating, Deduct	-1,502.32	
			For Class 54 Rating, Add	2,066.70	
			For Class 55 Rating, Add	3,081.78	
			For Class 56 Rating, Add	4,083.19	
40 05 19 00-1410	EA		24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,613.82	997.53
			For Class 52 Rating, Deduct	-1,551.27	
			For Class 54 Rating, Add	2,133.50	
			For Class 55 Rating, Add	3,181.11	
			For Class 56 Rating, Add	4,214.62	
40 05 19 00-1411	EA		24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,063.52	1,000.68
			For Class 52 Rating, Deduct	-1,600.21	
			For Class 54 Rating, Add	2,200.29	
			For Class 55 Rating, Add	3,280.44	
			For Class 56 Rating, Add	4,346.05	
40 05 19 00-1412	EA		24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,513.23	1,003.84
			For Class 52 Rating, Deduct	-1,649.15	
			For Class 54 Rating, Add	2,267.09	
			For Class 55 Rating, Add	3,379.78	
			For Class 56 Rating, Add	4,477.47	
40 05 19 00-1413	EA		24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,962.95	1,007.00
			For Class 52 Rating, Deduct	-1,698.09	
			For Class 54 Rating, Add	2,333.89	
			For Class 55 Rating, Add	3,479.11	
			For Class 56 Rating, Add	4,608.90	
40 05 19 00-1414	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,412.66	1,010.15
			For Class 52 Rating, Deduct	-1,747.03	
			For Class 54 Rating, Add	2,400.68	
			For Class 55 Rating, Add	3,578.45	
			For Class 56 Rating, Add	4,740.32	
40 05 19 00-1415	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,943.69	1,066.98
			For Class 52 Rating, Deduct	-1,795.98	
			For Class 54 Rating, Add	2,468.46	
			For Class 55 Rating, Add	3,679.73	
			For Class 56 Rating, Add	4,874.68	
40 05 19 00-1416	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,393.39	1,070.14
			For Class 52 Rating, Deduct	-1,844.92	
			For Class 54 Rating, Add	2,535.25	
			For Class 55 Rating, Add	3,779.07	
			For Class 56 Rating, Add	5,006.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1417	EA	24"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,843.10	1,073.29
			For Class 52 Rating, Deduct	-1,893.86	
			For Class 54 Rating, Add	2,602.05	
			For Class 55 Rating, Add	3,878.40	
			For Class 56 Rating, Add	5,137.53	
40 05 19 00-1418	EA	24"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,292.81	1,076.45
			For Class 52 Rating, Deduct	-1,942.80	
			For Class 54 Rating, Add	2,668.85	
			For Class 55 Rating, Add	3,977.73	
			For Class 56 Rating, Add	5,268.96	
40 05 19 00-1419	EA	24"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,742.52	1,079.60
			For Class 52 Rating, Deduct	-1,991.74	
			For Class 54 Rating, Add	2,735.64	
			For Class 55 Rating, Add	4,077.07	
			For Class 56 Rating, Add	5,400.38	
40 05 19 00-1420	EA	24"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,192.24	1,082.76
			For Class 52 Rating, Deduct	-2,040.69	
			For Class 54 Rating, Add	2,802.44	
			For Class 55 Rating, Add	4,176.40	
			For Class 56 Rating, Add	5,531.81	
40 05 19 00-1421	EA	24"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,641.95	1,085.92
			For Class 52 Rating, Deduct	-2,089.63	
			For Class 54 Rating, Add	2,869.24	
			For Class 55 Rating, Add	4,275.73	
			For Class 56 Rating, Add	5,663.23	
40 05 19 00-1422	EA	24"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,091.67	1,089.07
			For Class 52 Rating, Deduct	-2,138.57	
			For Class 54 Rating, Add	2,936.03	
			For Class 55 Rating, Add	4,375.07	
			For Class 56 Rating, Add	5,794.66	
40 05 19 00-1423	EA	24"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,541.37	1,092.23
			For Class 52 Rating, Deduct	-2,187.51	
			For Class 54 Rating, Add	3,002.83	
			For Class 55 Rating, Add	4,474.40	
			For Class 56 Rating, Add	5,926.09	
40 05 19 00-1424			30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1425	EA	30"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,382.56	1,300.58
			For Class 52 Rating, Deduct	-595.32	
			For Class 54 Rating, Add	835.45	
			For Class 55 Rating, Add	1,254.17	
			For Class 56 Rating, Add	1,667.48	
40 05 19 00-1426	EA	30"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,030.02	1,303.73
			For Class 52 Rating, Deduct	-666.01	
			For Class 54 Rating, Add	931.90	
			For Class 55 Rating, Add	1,397.60	
			For Class 56 Rating, Add	1,857.24	
40 05 19 00-1427	EA	30"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,677.47	1,306.88
			For Class 52 Rating, Deduct	-736.71	
			For Class 54 Rating, Add	1,028.36	
			For Class 55 Rating, Add	1,541.03	
			For Class 56 Rating, Add	2,047.00	
40 05 19 00-1428	EA	30"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,324.94	1,310.04
			For Class 52 Rating, Deduct	-807.40	
			For Class 54 Rating, Add	1,124.82	
			For Class 55 Rating, Add	1,684.46	
			For Class 56 Rating, Add	2,236.76	
40 05 19 00-1429	EA	30"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,972.39	1,313.21
			For Class 52 Rating, Deduct	-878.10	
			For Class 54 Rating, Add	1,221.28	
			For Class 55 Rating, Add	1,827.89	
			For Class 56 Rating, Add	2,426.52	
40 05 19 00-1430	EA	30"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,619.85	1,316.35
			For Class 52 Rating, Deduct	-948.79	
			For Class 54 Rating, Add	1,317.74	
			For Class 55 Rating, Add	1,971.32	
			For Class 56 Rating, Add	2,616.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431	EA	30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,267.31	1,319.52
		For Class 52 Rating, Deduct	-1,019.48	
		For Class 54 Rating, Add	1,414.20	
		For Class 55 Rating, Add	2,114.76	
		For Class 56 Rating, Add	2,806.05	
40 05 19 00-1432	EA	30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,914.76	1,322.68
		For Class 52 Rating, Deduct	-1,090.18	
		For Class 54 Rating, Add	1,510.66	
		For Class 55 Rating, Add	2,258.19	
		For Class 56 Rating, Add	2,995.81	
40 05 19 00-1433	EA	30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,562.22	1,325.82
		For Class 52 Rating, Deduct	-1,160.87	
		For Class 54 Rating, Add	1,607.11	
		For Class 55 Rating, Add	2,401.62	
		For Class 56 Rating, Add	3,185.57	
40 05 19 00-1434	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,209.67	1,328.99
		For Class 52 Rating, Deduct	-1,231.57	
		For Class 54 Rating, Add	1,703.57	
		For Class 55 Rating, Add	2,545.05	
		For Class 56 Rating, Add	3,375.33	
40 05 19 00-1435	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,857.14	1,332.15
		For Class 52 Rating, Deduct	-1,302.26	
		For Class 54 Rating, Add	1,800.03	
		For Class 55 Rating, Add	2,688.48	
		For Class 56 Rating, Add	3,565.09	
40 05 19 00-1436	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,504.59	1,335.31
		For Class 52 Rating, Deduct	-1,372.96	
		For Class 54 Rating, Add	1,896.49	
		For Class 55 Rating, Add	2,831.91	
		For Class 56 Rating, Add	3,754.85	
40 05 19 00-1437	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,152.04	1,338.46
		For Class 52 Rating, Deduct	-1,443.65	
		For Class 54 Rating, Add	1,992.95	
		For Class 55 Rating, Add	2,975.34	
		For Class 56 Rating, Add	3,944.61	
40 05 19 00-1438	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,799.51	1,341.62
		For Class 52 Rating, Deduct	-1,514.34	
		For Class 54 Rating, Add	2,089.41	
		For Class 55 Rating, Add	3,118.77	
		For Class 56 Rating, Add	4,134.37	
40 05 19 00-1439	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,446.96	1,344.78
		For Class 52 Rating, Deduct	-1,585.04	
		For Class 54 Rating, Add	2,185.86	
		For Class 55 Rating, Add	3,262.20	
		For Class 56 Rating, Add	4,324.13	
40 05 19 00-1440	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,094.43	1,347.92
		For Class 52 Rating, Deduct	-1,655.73	
		For Class 54 Rating, Add	2,282.32	
		For Class 55 Rating, Add	3,405.64	
		For Class 56 Rating, Add	4,513.90	
40 05 19 00-1441	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,741.87	1,351.08
		For Class 52 Rating, Deduct	-1,726.43	
		For Class 54 Rating, Add	2,378.78	
		For Class 55 Rating, Add	3,549.07	
		For Class 56 Rating, Add	4,703.66	
40 05 19 00-1442	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,389.34	1,354.24
		For Class 52 Rating, Deduct	-1,797.12	
		For Class 54 Rating, Add	2,475.24	
		For Class 55 Rating, Add	3,692.50	
		For Class 56 Rating, Add	4,893.42	
40 05 19 00-1443	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,036.79	1,357.40
		For Class 52 Rating, Deduct	-1,867.81	
		For Class 54 Rating, Add	2,571.70	
		For Class 55 Rating, Add	3,835.93	
		For Class 56 Rating, Add	5,083.18	
40 05 19 00-1444	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,684.24	1,360.55
		For Class 52 Rating, Deduct	-1,938.51	
		For Class 54 Rating, Add	2,668.16	
		For Class 55 Rating, Add	3,979.36	
		For Class 56 Rating, Add	5,272.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1445	EA	30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,331.71	1,363.71	
		For Class 52 Rating, Deduct	-2,009.20		
		For Class 54 Rating, Add	2,764.62		
		For Class 55 Rating, Add	4,122.79		
		For Class 56 Rating, Add	5,462.70		
40 05 19 00-1446	EA	30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,979.16	1,366.87	
		For Class 52 Rating, Deduct	-2,079.90		
		For Class 54 Rating, Add	2,861.07		
		For Class 55 Rating, Add	4,266.22		
		For Class 56 Rating, Add	5,652.46		
40 05 19 00-1447	EA	30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,626.63	1,370.02	
		For Class 52 Rating, Deduct	-2,150.59		
		For Class 54 Rating, Add	2,957.53		
		For Class 55 Rating, Add	4,409.65		
		For Class 56 Rating, Add	5,842.22		
40 05 19 00-1448	EA	30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,274.08	1,373.18	
		For Class 52 Rating, Deduct	-2,221.29		
		For Class 54 Rating, Add	3,053.99		
		For Class 55 Rating, Add	4,553.08		
		For Class 56 Rating, Add	6,031.98		
40 05 19 00-1449	EA	30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,921.54	1,376.34	
		For Class 52 Rating, Deduct	-2,291.98		
		For Class 54 Rating, Add	3,150.45		
		For Class 55 Rating, Add	4,696.52		
		For Class 56 Rating, Add	6,221.75		
40 05 19 00-1450	EA	30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,568.99	1,379.50	
		For Class 52 Rating, Deduct	-2,362.67		
		For Class 54 Rating, Add	3,246.91		
		For Class 55 Rating, Add	4,839.95		
		For Class 56 Rating, Add	6,411.51		
40 05 19 00-1451	EA	30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,216.44	1,382.64	
		For Class 52 Rating, Deduct	-2,433.37		
		For Class 54 Rating, Add	3,343.37		
		For Class 55 Rating, Add	4,983.38		
		For Class 56 Rating, Add	6,601.27		
40 05 19 00-1452	EA	30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,863.91	1,385.80	
		For Class 52 Rating, Deduct	-2,504.06		
		For Class 54 Rating, Add	3,439.83		
		For Class 55 Rating, Add	5,126.81		
		For Class 56 Rating, Add	6,791.03		
40 05 19 00-1453	EA	30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,511.36	1,388.96	
		For Class 52 Rating, Deduct	-2,574.76		
		For Class 54 Rating, Add	3,536.28		
		For Class 55 Rating, Add	5,270.24		
		For Class 56 Rating, Add	6,980.79		
40 05 19 00-1454	EA	30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,158.83	1,392.12	
		For Class 52 Rating, Deduct	-2,645.45		
		For Class 54 Rating, Add	3,632.74		
		For Class 55 Rating, Add	5,413.67		
		For Class 56 Rating, Add	7,170.55		
40 05 19 00-1455	EA	30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,806.28	1,395.27	
		For Class 52 Rating, Deduct	-2,716.14		
		For Class 54 Rating, Add	3,729.20		
		For Class 55 Rating, Add	5,557.10		
		For Class 56 Rating, Add	7,360.31		
40 05 19 00-1456	EA	30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,453.74	1,398.43	
		For Class 52 Rating, Deduct	-2,786.84		
		For Class 54 Rating, Add	3,825.66		
		For Class 55 Rating, Add	5,700.53		
		For Class 56 Rating, Add	7,550.07		
40 05 19 00-1457	EA	30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,101.20	1,401.60	
		For Class 52 Rating, Deduct	-2,857.53		
		For Class 54 Rating, Add	3,922.12		
		For Class 55 Rating, Add	5,843.97		
		For Class 56 Rating, Add	7,739.83		
40 05 19 00-1458	EA	30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,748.64	1,404.74	
		For Class 52 Rating, Deduct	-2,928.23		
		For Class 54 Rating, Add	4,018.58		
		For Class 55 Rating, Add	5,987.40		
		For Class 56 Rating, Add	7,929.59		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,396.11	1,407.90
			For Class 52 Rating, Deduct	-2,998.92	
			For Class 54 Rating, Add	4,115.04	
			For Class 55 Rating, Add	6,130.83	
			For Class 56 Rating, Add	8,119.36	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,043.56	1,411.07
			For Class 52 Rating, Deduct	-3,069.61	
			For Class 54 Rating, Add	4,211.49	
			For Class 55 Rating, Add	6,274.26	
			For Class 56 Rating, Add	8,309.12	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,691.02	1,414.23
			For Class 52 Rating, Deduct	-3,140.31	
			For Class 54 Rating, Add	4,307.95	
			For Class 55 Rating, Add	6,417.69	
			For Class 56 Rating, Add	8,498.88	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,338.48	1,417.38
			For Class 52 Rating, Deduct	-3,211.00	
			For Class 54 Rating, Add	4,404.41	
			For Class 55 Rating, Add	6,561.12	
			For Class 56 Rating, Add	8,688.64	
40 05 19 00-1463 36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,203.58	1,647.82
			For Class 52 Rating, Deduct	-847.76	
			For Class 54 Rating, Add	1,185.99	
			For Class 55 Rating, Add	1,778.56	
			For Class 56 Rating, Add	2,363.41	
40 05 19 00-1465	EA		36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,082.61	1,650.98
			For Class 52 Rating, Deduct	-943.92	
			For Class 54 Rating, Add	1,317.19	
			For Class 55 Rating, Add	1,973.63	
			For Class 56 Rating, Add	2,621.49	
40 05 19 00-1466	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,961.64	1,654.13
			For Class 52 Rating, Deduct	-1,040.09	
			For Class 54 Rating, Add	1,448.38	
			For Class 55 Rating, Add	2,168.70	
			For Class 56 Rating, Add	2,879.56	
40 05 19 00-1467	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,840.67	1,657.28
			For Class 52 Rating, Deduct	-1,136.26	
			For Class 54 Rating, Add	1,579.58	
			For Class 55 Rating, Add	2,363.77	
			For Class 56 Rating, Add	3,137.64	
40 05 19 00-1468	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,719.69	1,660.44
			For Class 52 Rating, Deduct	-1,232.43	
			For Class 54 Rating, Add	1,710.77	
			For Class 55 Rating, Add	2,558.84	
			For Class 56 Rating, Add	3,395.71	
40 05 19 00-1469	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,598.71	1,663.59
			For Class 52 Rating, Deduct	-1,328.59	
			For Class 54 Rating, Add	1,841.96	
			For Class 55 Rating, Add	2,753.91	
			For Class 56 Rating, Add	3,653.78	
40 05 19 00-1470	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,477.75	1,666.75
			For Class 52 Rating, Deduct	-1,424.76	
			For Class 54 Rating, Add	1,973.16	
			For Class 55 Rating, Add	2,948.99	
			For Class 56 Rating, Add	3,911.86	
40 05 19 00-1471	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,356.77	1,669.91
			For Class 52 Rating, Deduct	-1,520.93	
			For Class 54 Rating, Add	2,104.35	
			For Class 55 Rating, Add	3,144.06	
			For Class 56 Rating, Add	4,169.93	
40 05 19 00-1472	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,235.81	1,673.08
			For Class 52 Rating, Deduct	-1,617.09	
			For Class 54 Rating, Add	2,235.55	
			For Class 55 Rating, Add	3,339.13	
			For Class 56 Rating, Add	4,428.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1473	EA		36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	18,114.83	1,676.22
			For Class 52 Rating, Deduct	-1,713.26	
			For Class 54 Rating, Add	2,366.74	
			For Class 55 Rating, Add	3,534.20	
			For Class 56 Rating, Add	4,686.08	
40 05 19 00-1474	EA		36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	18,993.86	1,679.38
			For Class 52 Rating, Deduct	-1,809.43	
			For Class 54 Rating, Add	2,497.94	
			For Class 55 Rating, Add	3,729.27	
			For Class 56 Rating, Add	4,944.16	
40 05 19 00-1475	EA		36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	19,872.89	1,682.55
			For Class 52 Rating, Deduct	-1,905.59	
			For Class 54 Rating, Add	2,629.13	
			For Class 55 Rating, Add	3,924.34	
			For Class 56 Rating, Add	5,202.23	
40 05 19 00-1476	EA		36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	20,751.91	1,685.69
			For Class 52 Rating, Deduct	-2,001.76	
			For Class 54 Rating, Add	2,760.32	
			For Class 55 Rating, Add	4,119.41	
			For Class 56 Rating, Add	5,460.31	
40 05 19 00-1477	EA		36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	21,630.94	1,688.86
			For Class 52 Rating, Deduct	-2,097.93	
			For Class 54 Rating, Add	2,891.52	
			For Class 55 Rating, Add	4,314.48	
			For Class 56 Rating, Add	5,718.38	
40 05 19 00-1478	EA		36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	22,509.97	1,692.02
			For Class 52 Rating, Deduct	-2,194.10	
			For Class 54 Rating, Add	3,022.71	
			For Class 55 Rating, Add	4,509.56	
			For Class 56 Rating, Add	5,976.46	
40 05 19 00-1479	EA		36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	23,389.00	1,695.18
			For Class 52 Rating, Deduct	-2,290.26	
			For Class 54 Rating, Add	3,153.91	
			For Class 55 Rating, Add	4,704.63	
			For Class 56 Rating, Add	6,234.53	
40 05 19 00-1480	EA		36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	24,268.03	1,698.32
			For Class 52 Rating, Deduct	-2,386.43	
			For Class 54 Rating, Add	3,285.10	
			For Class 55 Rating, Add	4,899.70	
			For Class 56 Rating, Add	6,492.60	
40 05 19 00-1481	EA		36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	25,147.05	1,701.48
			For Class 52 Rating, Deduct	-2,482.60	
			For Class 54 Rating, Add	3,416.29	
			For Class 55 Rating, Add	5,094.77	
			For Class 56 Rating, Add	6,750.68	
40 05 19 00-1482	EA		36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			Iron Pipe	26,026.09	1,704.64
			For Class 52 Rating, Deduct	-2,578.76	
			For Class 54 Rating, Add	3,547.49	
			For Class 55 Rating, Add	5,289.84	
			For Class 56 Rating, Add	7,008.75	
40 05 19 00-1483	EA		36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			Iron Pipe	26,905.11	1,707.80
			For Class 52 Rating, Deduct	-2,674.93	
			For Class 54 Rating, Add	3,678.68	
			For Class 55 Rating, Add	5,484.91	
			For Class 56 Rating, Add	7,266.83	
40 05 19 00-1484	EA		36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			Iron Pipe	27,784.14	1,710.95
			For Class 52 Rating, Deduct	-2,771.10	
			For Class 54 Rating, Add	3,809.88	
			For Class 55 Rating, Add	5,679.99	
			For Class 56 Rating, Add	7,524.90	
40 05 19 00-1485	EA		36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			Iron Pipe	28,663.16	1,714.11
			For Class 52 Rating, Deduct	-2,867.26	
			For Class 54 Rating, Add	3,941.07	
			For Class 55 Rating, Add	5,875.06	
			For Class 56 Rating, Add	7,782.98	
40 05 19 00-1486	EA		36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			Iron Pipe	29,542.19	1,717.27
			For Class 52 Rating, Deduct	-2,963.43	
			For Class 54 Rating, Add	4,072.26	
			For Class 55 Rating, Add	6,070.13	
			For Class 56 Rating, Add	8,041.05	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,421.22	1,720.42
			For Class 52 Rating, Deduct	-3,059.60	
			For Class 54 Rating, Add	4,203.46	
			For Class 55 Rating, Add	6,265.20	
			For Class 56 Rating, Add	8,299.12	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,300.25	1,723.58
			For Class 52 Rating, Deduct	-3,155.76	
			For Class 54 Rating, Add	4,334.65	
			For Class 55 Rating, Add	6,460.27	
			For Class 56 Rating, Add	8,557.20	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,179.29	1,726.74
			For Class 52 Rating, Deduct	-3,251.93	
			For Class 54 Rating, Add	4,465.85	
			For Class 55 Rating, Add	6,655.34	
			For Class 56 Rating, Add	8,815.28	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,058.31	1,729.90
			For Class 52 Rating, Deduct	-3,348.10	
			For Class 54 Rating, Add	4,597.04	
			For Class 55 Rating, Add	6,850.41	
			For Class 56 Rating, Add	9,073.35	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,937.35	1,733.04
			For Class 52 Rating, Deduct	-3,444.27	
			For Class 54 Rating, Add	4,728.24	
			For Class 55 Rating, Add	7,045.49	
			For Class 56 Rating, Add	9,331.43	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,816.36	1,736.20
			For Class 52 Rating, Deduct	-3,540.43	
			For Class 54 Rating, Add	4,859.43	
			For Class 55 Rating, Add	7,240.56	
			For Class 56 Rating, Add	9,589.50	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,695.39	1,739.36
			For Class 52 Rating, Deduct	-3,636.60	
			For Class 54 Rating, Add	4,990.62	
			For Class 55 Rating, Add	7,435.63	
			For Class 56 Rating, Add	9,847.57	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,574.42	1,742.51
			For Class 52 Rating, Deduct	-3,732.77	
			For Class 54 Rating, Add	5,121.82	
			For Class 55 Rating, Add	7,630.70	
			For Class 56 Rating, Add	10,105.65	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,453.45	1,745.67
			For Class 52 Rating, Deduct	-3,828.93	
			For Class 54 Rating, Add	5,253.01	
			For Class 55 Rating, Add	7,825.77	
			For Class 56 Rating, Add	10,363.72	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,332.48	1,748.83
			For Class 52 Rating, Deduct	-3,925.10	
			For Class 54 Rating, Add	5,384.21	
			For Class 55 Rating, Add	8,020.84	
			For Class 56 Rating, Add	10,621.80	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,211.51	1,751.99
			For Class 52 Rating, Deduct	-4,021.27	
			For Class 54 Rating, Add	5,515.40	
			For Class 55 Rating, Add	8,215.92	
			For Class 56 Rating, Add	10,879.87	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,090.53	1,755.14
			For Class 52 Rating, Deduct	-4,117.43	
			For Class 54 Rating, Add	5,646.59	
			For Class 55 Rating, Add	8,410.99	
			For Class 56 Rating, Add	11,137.95	
40 05 19 00-1499	EA		36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,969.57	1,758.30
			For Class 52 Rating, Deduct	-4,213.60	
			For Class 54 Rating, Add	5,777.79	
			For Class 55 Rating, Add	8,606.06	
			For Class 56 Rating, Add	11,396.02	
40 05 19 00-1500	EA		36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,848.59	1,761.46
			For Class 52 Rating, Deduct	-4,309.77	
			For Class 54 Rating, Add	5,908.98	
			For Class 55 Rating, Add	8,801.13	
			For Class 56 Rating, Add	11,654.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1501	EA		36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,727.62	1,764.61
			For Class 52 Rating, Deduct	-4,405.94	
			For Class 54 Rating, Add	6,040.18	
			For Class 55 Rating, Add	8,996.20	
			For Class 56 Rating, Add	11,912.17	
40 05 19 00-1502			42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1503	EA		42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,479.39	2,077.14
			For Class 52 Rating, Deduct	-1,136.54	
			For Class 54 Rating, Add	1,587.60	
			For Class 55 Rating, Add	2,379.62	
			For Class 56 Rating, Add	3,161.30	
40 05 19 00-1504	EA		42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,790.34	2,080.29
			For Class 52 Rating, Deduct	-1,280.22	
			For Class 54 Rating, Add	1,783.58	
			For Class 55 Rating, Add	2,671.01	
			For Class 56 Rating, Add	3,546.80	
40 05 19 00-1505	EA		42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,085.68	2,083.45
			For Class 52 Rating, Deduct	-1,422.18	
			For Class 54 Rating, Add	1,977.22	
			For Class 55 Rating, Add	2,958.92	
			For Class 56 Rating, Add	3,927.68	
40 05 19 00-1506	EA		42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,394.02	2,086.60
			For Class 52 Rating, Deduct	-1,565.58	
			For Class 54 Rating, Add	2,172.81	
			For Class 55 Rating, Add	3,249.72	
			For Class 56 Rating, Add	4,312.40	
40 05 19 00-1507	EA		42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,689.36	2,089.76
			For Class 52 Rating, Deduct	-1,707.54	
			For Class 54 Rating, Add	2,366.45	
			For Class 55 Rating, Add	3,537.63	
			For Class 56 Rating, Add	4,693.29	
40 05 19 00-1508	EA		42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,000.31	2,092.91
			For Class 52 Rating, Deduct	-1,851.21	
			For Class 54 Rating, Add	2,562.44	
			For Class 55 Rating, Add	3,829.02	
			For Class 56 Rating, Add	5,078.78	
40 05 19 00-1509	EA		42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,293.04	2,096.07
			For Class 52 Rating, Deduct	-1,992.89	
			For Class 54 Rating, Add	2,755.69	
			For Class 55 Rating, Add	4,116.35	
			For Class 56 Rating, Add	5,458.90	
40 05 19 00-1510	EA		42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,603.98	2,099.23
			For Class 52 Rating, Deduct	-2,136.57	
			For Class 54 Rating, Add	2,951.67	
			For Class 55 Rating, Add	4,407.74	
			For Class 56 Rating, Add	5,844.39	
40 05 19 00-1511	EA		42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,899.32	2,102.39
			For Class 52 Rating, Deduct	-2,278.53	
			For Class 54 Rating, Add	3,145.31	
			For Class 55 Rating, Add	4,695.65	
			For Class 56 Rating, Add	6,225.27	
40 05 19 00-1512	EA		42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,207.67	2,105.54
			For Class 52 Rating, Deduct	-2,421.92	
			For Class 54 Rating, Add	3,340.90	
			For Class 55 Rating, Add	4,986.46	
			For Class 56 Rating, Add	6,610.00	
40 05 19 00-1513	EA		42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,503.00	2,108.70
			For Class 52 Rating, Deduct	-2,563.88	
			For Class 54 Rating, Add	3,534.54	
			For Class 55 Rating, Add	5,274.36	
			For Class 56 Rating, Add	6,990.88	
40 05 19 00-1514	EA		42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,811.34	2,111.86
			For Class 52 Rating, Deduct	-2,707.27	
			For Class 54 Rating, Add	3,730.13	
			For Class 55 Rating, Add	5,565.17	
			For Class 56 Rating, Add	7,375.60	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1515	EA		42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,106.68	2,115.01
			For Class 52 Rating, Deduct	-2,849.23	
			For Class 54 Rating, Add	3,923.77	
			For Class 55 Rating, Add	5,853.08	
			For Class 56 Rating, Add	7,756.49	
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,404.62	2,118.17
			For Class 52 Rating, Deduct	-2,991.48	
			For Class 54 Rating, Add	4,117.80	
			For Class 55 Rating, Add	6,141.57	
			For Class 56 Rating, Add	8,138.14	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,710.37	2,121.33
			For Class 52 Rating, Deduct	-3,134.59	
			For Class 54 Rating, Add	4,313.00	
			For Class 55 Rating, Add	6,431.80	
			For Class 56 Rating, Add	8,522.10	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,005.69	2,124.49
			For Class 52 Rating, Deduct	-3,276.55	
			For Class 54 Rating, Add	4,506.64	
			For Class 55 Rating, Add	6,719.71	
			For Class 56 Rating, Add	8,902.98	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,316.64	2,127.63
			For Class 52 Rating, Deduct	-3,420.22	
			For Class 54 Rating, Add	4,702.63	
			For Class 55 Rating, Add	7,011.09	
			For Class 56 Rating, Add	9,288.47	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,611.98	2,130.79
			For Class 52 Rating, Deduct	-3,562.19	
			For Class 54 Rating, Add	4,896.27	
			For Class 55 Rating, Add	7,299.00	
			For Class 56 Rating, Add	9,669.36	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,920.32	2,133.96
			For Class 52 Rating, Deduct	-3,705.58	
			For Class 54 Rating, Add	5,091.86	
			For Class 55 Rating, Add	7,589.81	
			For Class 56 Rating, Add	10,054.08	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,215.66	2,137.10
			For Class 52 Rating, Deduct	-3,847.54	
			For Class 54 Rating, Add	5,285.50	
			For Class 55 Rating, Add	7,877.72	
			For Class 56 Rating, Add	10,434.96	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,526.60	2,140.27
			For Class 52 Rating, Deduct	-3,991.21	
			For Class 54 Rating, Add	5,481.48	
			For Class 55 Rating, Add	8,169.11	
			For Class 56 Rating, Add	10,820.45	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,821.95	2,143.43
			For Class 52 Rating, Deduct	-4,133.18	
			For Class 54 Rating, Add	5,675.12	
			For Class 55 Rating, Add	8,457.02	
			For Class 56 Rating, Add	11,201.34	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,130.29	2,146.59
			For Class 52 Rating, Deduct	-4,276.57	
			For Class 54 Rating, Add	5,870.71	
			For Class 55 Rating, Add	8,747.83	
			For Class 56 Rating, Add	11,586.06	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,425.61	2,149.74
			For Class 52 Rating, Deduct	-4,418.53	
			For Class 54 Rating, Add	6,064.35	
			For Class 55 Rating, Add	9,035.73	
			For Class 56 Rating, Add	11,966.95	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,736.56	2,152.90
			For Class 52 Rating, Deduct	-4,562.21	
			For Class 54 Rating, Add	6,260.33	
			For Class 55 Rating, Add	9,327.12	
			For Class 56 Rating, Add	12,352.44	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,031.90	2,156.06
			For Class 52 Rating, Deduct	-4,704.17	
			For Class 54 Rating, Add	6,453.97	
			For Class 55 Rating, Add	9,615.03	
			For Class 56 Rating, Add	12,733.32	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1529	EA		42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,337.65	2,159.21
			For Class 52 Rating, Deduct	-4,847.27	
			For Class 54 Rating, Add	6,649.18	
			For Class 55 Rating, Add	9,905.26	
			For Class 56 Rating, Add	13,117.28	
40 05 19 00-1530	EA		42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,635.58	2,162.36
			For Class 52 Rating, Deduct	-4,989.52	
			For Class 54 Rating, Add	6,843.21	
			For Class 55 Rating, Add	10,193.75	
			For Class 56 Rating, Add	13,498.93	
40 05 19 00-1531	EA		42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,670.73	2,165.52
			For Class 52 Rating, Deduct	-5,102.86	
			For Class 54 Rating, Add	6,997.82	
			For Class 55 Rating, Add	10,423.63	
			For Class 56 Rating, Add	13,803.06	
40 05 19 00-1532	EA		42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,239.27	2,168.68
			For Class 52 Rating, Deduct	-5,274.87	
			For Class 54 Rating, Add	7,232.44	
			For Class 55 Rating, Add	10,772.47	
			For Class 56 Rating, Add	14,264.54	
40 05 19 00-1533	EA		42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,534.60	2,171.83
			For Class 52 Rating, Deduct	-5,416.83	
			For Class 54 Rating, Add	7,426.08	
			For Class 55 Rating, Add	11,060.37	
			For Class 56 Rating, Add	14,645.43	
40 05 19 00-1534	EA		42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,842.94	2,174.99
			For Class 52 Rating, Deduct	-5,560.23	
			For Class 54 Rating, Add	7,621.67	
			For Class 55 Rating, Add	11,351.18	
			For Class 56 Rating, Add	15,030.15	
40 05 19 00-1535	EA		42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,138.27	2,178.15
			For Class 52 Rating, Deduct	-5,702.19	
			For Class 54 Rating, Add	7,815.31	
			For Class 55 Rating, Add	11,639.09	
			For Class 56 Rating, Add	15,411.03	
40 05 19 00-1536	EA		42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,449.23	2,181.31
			For Class 52 Rating, Deduct	-5,845.86	
			For Class 54 Rating, Add	8,011.29	
			For Class 55 Rating, Add	11,930.48	
			For Class 56 Rating, Add	15,796.53	
40 05 19 00-1537	EA		42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,741.96	2,184.46
			For Class 52 Rating, Deduct	-5,987.54	
			For Class 54 Rating, Add	8,204.54	
			For Class 55 Rating, Add	12,217.81	
			For Class 56 Rating, Add	16,176.64	
40 05 19 00-1538	EA		42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,052.90	2,187.62
			For Class 52 Rating, Deduct	-6,131.22	
			For Class 54 Rating, Add	8,400.52	
			For Class 55 Rating, Add	12,509.20	
			For Class 56 Rating, Add	16,562.13	
40 05 19 00-1539	EA		42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,348.24	2,190.78
			For Class 52 Rating, Deduct	-6,273.18	
			For Class 54 Rating, Add	8,594.16	
			For Class 55 Rating, Add	12,797.10	
			For Class 56 Rating, Add	16,943.02	
40 05 19 00-1540	EA		42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,656.58	2,193.93
			For Class 52 Rating, Deduct	-6,416.57	
			For Class 54 Rating, Add	8,789.76	
			For Class 55 Rating, Add	13,087.91	
			For Class 56 Rating, Add	17,327.74	
40 05 19 00-1541			48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1542	EA		48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,391.80	2,610.62
			For Class 52 Rating, Deduct	-1,477.99	
			For Class 54 Rating, Add	2,062.91	
			For Class 55 Rating, Add	3,091.23	
			For Class 56 Rating, Add	4,106.11	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1543	EA	48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	19,298.59	2,613.78
		For Class 52 Rating, Deduct		-1,687.22	
		For Class 54 Rating, Add		2,348.27	
		For Class 55 Rating, Add		3,515.49	
		For Class 56 Rating, Add		4,667.37	
40 05 19 00-1544	EA	48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	21,202.77	2,616.94
		For Class 52 Rating, Deduct		-1,896.15	
		For Class 54 Rating, Add		2,633.24	
		For Class 55 Rating, Add		3,939.17	
		For Class 56 Rating, Add		5,227.87	
40 05 19 00-1545	EA	48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	23,122.57	2,620.10
		For Class 52 Rating, Deduct		-2,106.80	
		For Class 54 Rating, Add		2,920.55	
		For Class 55 Rating, Add		4,366.33	
		For Class 56 Rating, Add		5,792.97	
40 05 19 00-1546	EA	48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	25,029.36	2,623.25
		For Class 52 Rating, Deduct		-2,316.02	
		For Class 54 Rating, Add		3,205.91	
		For Class 55 Rating, Add		4,790.60	
		For Class 56 Rating, Add		6,354.23	
40 05 19 00-1547	EA	48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	26,936.14	2,626.41
		For Class 52 Rating, Deduct		-2,525.24	
		For Class 54 Rating, Add		3,491.26	
		For Class 55 Rating, Add		5,214.86	
		For Class 56 Rating, Add		6,915.50	
40 05 19 00-1548	EA	48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	28,853.34	2,629.57
		For Class 52 Rating, Deduct		-2,735.61	
		For Class 54 Rating, Add		3,778.18	
		For Class 55 Rating, Add		5,641.44	
		For Class 56 Rating, Add		7,479.83	
40 05 19 00-1549	EA	48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	30,762.73	2,632.71
		For Class 52 Rating, Deduct		-2,945.11	
		For Class 54 Rating, Add		4,063.93	
		For Class 55 Rating, Add		6,066.28	
		For Class 56 Rating, Add		8,041.86	
40 05 19 00-1550	EA	48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	32,666.92	2,635.87
		For Class 52 Rating, Deduct		-3,154.05	
		For Class 54 Rating, Add		4,348.90	
		For Class 55 Rating, Add		6,489.96	
		For Class 56 Rating, Add		8,602.36	
40 05 19 00-1551	EA	48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	34,586.70	2,639.03
		For Class 52 Rating, Deduct		-3,364.70	
		For Class 54 Rating, Add		4,636.21	
		For Class 55 Rating, Add		6,917.13	
		For Class 56 Rating, Add		9,167.46	
40 05 19 00-1552	EA	48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	36,493.49	2,642.19
		For Class 52 Rating, Deduct		-3,573.92	
		For Class 54 Rating, Add		4,921.57	
		For Class 55 Rating, Add		7,341.39	
		For Class 56 Rating, Add		9,728.72	
40 05 19 00-1553	EA	48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	38,413.29	2,645.34
		For Class 52 Rating, Deduct		-3,784.57	
		For Class 54 Rating, Add		5,208.88	
		For Class 55 Rating, Add		7,768.55	
		For Class 56 Rating, Add		10,293.82	
40 05 19 00-1554	EA	48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	40,317.47	2,648.50
		For Class 52 Rating, Deduct		-3,993.50	
		For Class 54 Rating, Add		5,493.84	
		For Class 55 Rating, Add		8,192.23	
		For Class 56 Rating, Add		10,854.32	
40 05 19 00-1555	EA	48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	42,224.26	2,651.66
		For Class 52 Rating, Deduct		-4,202.72	
		For Class 54 Rating, Add		5,779.20	
		For Class 55 Rating, Add		8,616.49	
		For Class 56 Rating, Add		11,415.58	
40 05 19 00-1556	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	Pipe	44,144.06	2,654.82
		For Class 52 Rating, Deduct		-4,413.38	
		For Class 54 Rating, Add		6,066.51	
		For Class 55 Rating, Add		9,043.66	
		For Class 56 Rating, Add		11,980.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1557	EA		48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,050.85	2,657.97
			For Class 52 Rating, Deduct	-4,622.60	
			For Class 54 Rating, Add	6,351.87	
			For Class 55 Rating, Add	9,467.92	
			For Class 56 Rating, Add	12,541.95	
40 05 19 00-1558	EA		48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,955.03	2,661.13
			For Class 52 Rating, Deduct	-4,831.53	
			For Class 54 Rating, Add	6,636.84	
			For Class 55 Rating, Add	9,891.60	
			For Class 56 Rating, Add	13,102.44	
40 05 19 00-1559	EA		48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,874.81	2,664.29
			For Class 52 Rating, Deduct	-5,042.18	
			For Class 54 Rating, Add	6,924.14	
			For Class 55 Rating, Add	10,318.76	
			For Class 56 Rating, Add	13,667.54	
40 05 19 00-1560	EA		48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,781.61	2,667.43
			For Class 52 Rating, Deduct	-5,251.40	
			For Class 54 Rating, Add	7,209.50	
			For Class 55 Rating, Add	10,743.02	
			For Class 56 Rating, Add	14,228.81	
40 05 19 00-1561	EA		48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,685.79	2,670.59
			For Class 52 Rating, Deduct	-5,460.34	
			For Class 54 Rating, Add	7,494.47	
			For Class 55 Rating, Add	11,166.71	
			For Class 56 Rating, Add	14,789.30	
40 05 19 00-1562	EA		48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,605.59	2,673.75
			For Class 52 Rating, Deduct	-5,670.99	
			For Class 54 Rating, Add	7,781.78	
			For Class 55 Rating, Add	11,593.87	
			For Class 56 Rating, Add	15,354.40	
40 05 19 00-1563	EA		48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,514.98	2,676.92
			For Class 52 Rating, Deduct	-5,880.50	
			For Class 54 Rating, Add	8,067.53	
			For Class 55 Rating, Add	12,018.71	
			For Class 56 Rating, Add	15,916.43	
40 05 19 00-1564	EA		48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,419.16	2,680.06
			For Class 52 Rating, Deduct	-6,089.43	
			For Class 54 Rating, Add	8,352.50	
			For Class 55 Rating, Add	12,442.39	
			For Class 56 Rating, Add	16,476.93	
40 05 19 00-1565	EA		48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,338.96	2,683.23
			For Class 52 Rating, Deduct	-6,300.08	
			For Class 54 Rating, Add	8,639.81	
			For Class 55 Rating, Add	12,869.55	
			For Class 56 Rating, Add	17,042.03	
40 05 19 00-1566	EA		48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	63,245.75	2,686.39
			For Class 52 Rating, Deduct	-6,509.30	
			For Class 54 Rating, Add	8,925.16	
			For Class 55 Rating, Add	13,293.82	
			For Class 56 Rating, Add	17,603.29	
40 05 19 00-1567	EA		48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,149.93	2,689.53
			For Class 52 Rating, Deduct	-6,718.24	
			For Class 54 Rating, Add	9,210.13	
			For Class 55 Rating, Add	13,717.50	
			For Class 56 Rating, Add	18,163.79	
40 05 19 00-1568	EA		48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	67,069.72	2,692.70
			For Class 52 Rating, Deduct	-6,928.89	
			For Class 54 Rating, Add	9,497.44	
			For Class 55 Rating, Add	14,144.66	
			For Class 56 Rating, Add	18,728.89	
40 05 19 00-1569	EA		48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,976.51	2,695.86
			For Class 52 Rating, Deduct	-7,138.11	
			For Class 54 Rating, Add	9,782.80	
			For Class 55 Rating, Add	14,568.92	
			For Class 56 Rating, Add	19,290.15	
40 05 19 00-1570	EA		48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,649.13	2,699.02
			For Class 52 Rating, Deduct	-7,321.57	
			For Class 54 Rating, Add	10,033.03	
			For Class 55 Rating, Add	14,940.96	
			For Class 56 Rating, Add	19,782.34	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1571	EA		48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	72,803.09	2,702.17
			For Class 52 Rating, Deduct	-7,557.98	
			For Class 54 Rating, Add	10,355.47	
			For Class 55 Rating, Add	15,420.35	
			For Class 56 Rating, Add	20,416.52	
40 05 19 00-1572	EA		48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	74,707.28	2,705.33
			For Class 52 Rating, Deduct	-7,766.91	
			For Class 54 Rating, Add	10,640.43	
			For Class 55 Rating, Add	15,844.03	
			For Class 56 Rating, Add	20,977.01	
40 05 19 00-1573	EA		48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	76,629.68	2,708.49
			For Class 52 Rating, Deduct	-7,977.85	
			For Class 54 Rating, Add	10,928.13	
			For Class 55 Rating, Add	16,271.77	
			For Class 56 Rating, Add	21,542.88	
40 05 19 00-1574	EA		48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	78,533.87	2,711.63
			For Class 52 Rating, Deduct	-8,186.79	
			For Class 54 Rating, Add	11,213.10	
			For Class 55 Rating, Add	16,695.45	
			For Class 56 Rating, Add	22,103.38	
40 05 19 00-1575	EA		48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	80,438.04	2,714.79
			For Class 52 Rating, Deduct	-8,395.72	
			For Class 54 Rating, Add	11,498.07	
			For Class 55 Rating, Add	17,119.13	
			For Class 56 Rating, Add	22,663.87	
40 05 19 00-1576	EA		48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	82,360.44	2,717.95
			For Class 52 Rating, Deduct	-8,606.66	
			For Class 54 Rating, Add	11,785.77	
			For Class 55 Rating, Add	17,546.88	
			For Class 56 Rating, Add	23,229.74	
40 05 19 00-1577	EA		48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	84,264.63	2,721.11
			For Class 52 Rating, Deduct	-8,815.59	
			For Class 54 Rating, Add	12,070.74	
			For Class 55 Rating, Add	17,970.56	
			For Class 56 Rating, Add	23,790.24	
40 05 19 00-1578	EA		48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	86,171.41	2,724.26
			For Class 52 Rating, Deduct	-9,024.81	
			For Class 54 Rating, Add	12,356.09	
			For Class 55 Rating, Add	18,394.82	
			For Class 56 Rating, Add	24,351.50	
40 05 19 00-1579	EA		48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	88,091.21	2,727.42
			For Class 52 Rating, Deduct	-9,235.46	
			For Class 54 Rating, Add	12,643.40	
			For Class 55 Rating, Add	18,821.98	
			For Class 56 Rating, Add	24,916.60	

40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows

(40 05 19 00-0001)

40 05 19 00-1581	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	447.67	152.30
40 05 19 00-1582	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	630.76	194.76
40 05 19 00-1583	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	886.84	220.60
40 05 19 00-1584	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,300.93	279.68
40 05 19 00-1585	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,613.09	310.13
40 05 19 00-1586	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,014.65	336.90
40 05 19 00-1587	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,481.87	415.36
40 05 19 00-1588	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,260.08	498.43
40 05 19 00-1589	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	4,014.79	627.65
40 05 19 00-1590	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	6,127.78	710.73
40 05 19 00-1591	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	10,326.56	941.48
40 05 19 00-1592	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	14,660.59	1,066.09
40 05 19 00-1593	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	24,600.52	1,218.39
40 05 19 00-1594	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	32,765.86	1,495.29

40 05 19 00-1595 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows

(40 05 19 00-0001)

40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	423.92	152.30
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	592.76	194.76
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	790.26	220.60
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,161.60	279.68
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,435.75	310.13
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,653.65	336.90
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,082.86	415.36
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,723.32	498.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1604 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,525.53	627.65
40 05 19 00-1605 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	4,652.09	710.73
40 05 19 00-1606 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	9,246.71	941.48
40 05 19 00-1607 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	13,872.08	1,066.09
40 05 19 00-1608 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	21,210.54	1,218.39
40 05 19 00-1609 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	28,930.97	1,495.29
40 05 19 00-1610 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1611 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	422.34	152.30
40 05 19 00-1612 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	580.09	194.76
40 05 19 00-1613 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	779.17	220.60
40 05 19 00-1614 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,129.93	279.68
40 05 19 00-1615 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,505.42	310.13
40 05 19 00-1616 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,873.73	336.90
40 05 19 00-1617 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,131.95	415.36
40 05 19 00-1618 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,783.48	498.43
40 05 19 00-1619 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,786.79	627.65
40 05 19 00-1620 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	5,247.43	710.73
40 05 19 00-1621 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,352.79	941.48
40 05 19 00-1622 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	14,115.92	1,066.09
40 05 19 00-1623 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	21,696.63	1,218.39
40 05 19 00-1624 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	29,564.31	1,495.29
40 05 19 00-1625 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1626 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	461.92	152.30
40 05 19 00-1627 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	654.51	194.76
40 05 19 00-1628 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	810.84	220.60
40 05 19 00-1629 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,242.35	279.68
40 05 19 00-1630 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,712.84	310.13
40 05 19 00-1631 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,927.57	336.90
40 05 19 00-1632 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,356.79	415.36
40 05 19 00-1633 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,783.48	498.43
40 05 19 00-1634 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,786.79	627.65
40 05 19 00-1635 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,461.18	710.73
40 05 19 00-1636 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,458.88	941.48
40 05 19 00-1637 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	14,220.42	1,066.09
40 05 19 00-1638 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	21,807.47	1,218.39
40 05 19 00-1639 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	29,787.56	1,495.29
40 05 19 00-1640 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1641 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	597.01	173.53
40 05 19 00-1642 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	738.51	186.45
40 05 19 00-1643 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	832.42	207.68
40 05 19 00-1644 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,115.77	215.98
40 05 19 00-1645 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,178.02	237.22
40 05 19 00-1646 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,287.85	250.13
40 05 19 00-1647 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,199.71	231.68
40 05 19 00-1648 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,352.21	252.90
40 05 19 00-1649 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,555.46	265.83
40 05 19 00-1650 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,657.22	295.37
40 05 19 00-1651 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,555.46	265.83
40 05 19 00-1652 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,723.87	278.75
40 05 19 00-1653 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,920.62	308.29
40 05 19 00-1654 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,126.49	323.99
40 05 19 00-1655 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,793.82	305.06
40 05 19 00-1656 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,935.31	317.98
40 05 19 00-1657 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,222.32	347.52
40 05 19 00-1658 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,425.90	362.75
40 05 19 00-1659 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,598.18	376.13
40 05 19 00-1660 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,099.00	346.59
40 05 19 00-1661 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,512.84	359.52
40 05 19 00-1662 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,587.67	389.05
40 05 19 00-1663 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,732.67	404.28
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,965.12	417.67
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,233.56	456.90
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,709.91	411.21
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,892.57	424.13
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,588.09	453.67
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,723.58	468.90
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,108.03	482.28
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,017.05	521.50
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,276.31	563.05
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,814.69	452.74
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,998.95	465.66

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1675 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,303.36	495.20
40 05 19 00-1676 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,522.78	510.43
40 05 19 00-1677 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,934.15	523.81
40 05 19 00-1678 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,318.17	563.05
40 05 19 00-1679 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,446.02	604.58
40 05 19 00-1680 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,728.80	597.90
40 05 19 00-1681 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,812.97	625.81
40 05 19 00-1682 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,252.83	639.20
40 05 19 00-1683 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,176.78	678.42
40 05 19 00-1684 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,506.41	719.96
40 05 19 00-1685 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,992.91	784.57
40 05 19 00-1686 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,610.02	826.11
40 05 19 00-1687 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,388.48	688.12
40 05 19 00-1688 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,163.82	701.49
40 05 19 00-1689 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,887.80	740.72
40 05 19 00-1690 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,914.78	782.27
40 05 19 00-1691 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,352.41	846.87
40 05 19 00-1692 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,468.27	888.40
40 05 19 00-1693 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,368.27	1,003.79
40 05 19 00-1694 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,617.59	777.64
40 05 19 00-1695 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,012.24	816.88
40 05 19 00-1696 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,877.50	858.41
40 05 19 00-1697 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,574.81	923.02
40 05 19 00-1698 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,210.45	964.56
40 05 19 00-1699 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	19,102.30	1,079.94
40 05 19 00-1700 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	26,980.51	1,142.24
40 05 19 00-1701 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	25,822.28	1,114.55
40 05 19 00-1702 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	28,082.39	1,229.93
40 05 19 00-1703 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	28,905.13	1,292.24
40 05 19 00-1704 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	36,967.40	1,368.38
40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1706 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	534.76	152.30
40 05 19 00-1707 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	825.52	194.76
40 05 19 00-1708 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,213.01	220.60
40 05 19 00-1709 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,725.27	279.68
40 05 19 00-1710 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,438.02	310.13
40 05 19 00-1711 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,842.75	336.90
40 05 19 00-1712 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,688.39	415.36
40 05 19 00-1713 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,569.51	498.43
40 05 19 00-1714 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,231.50	627.65
40 05 19 00-1715 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	9,158.33	710.73
40 05 19 00-1716 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	16,126.40	941.48
40 05 19 00-1717 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	24,555.01	1,066.09
40 05 19 00-1718 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	38,082.83	1,218.39
40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)		
40 05 19 00-1720 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	564.84	152.30
40 05 19 00-1721 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	766.93	194.76
40 05 19 00-1722 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,254.18	220.60
40 05 19 00-1723 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,695.19	279.68
40 05 19 00-1724 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,278.10	310.13
40 05 19 00-1725 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,690.75	336.90
40 05 19 00-1726 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,324.22	415.36
40 05 19 00-1727 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,176.84	498.43
40 05 19 00-1728 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,512.65	627.65
40 05 19 00-1729 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,790.31	710.73
40 05 19 00-1730 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	12,774.43	941.48
40 05 19 00-1731 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	18,270.65	1,066.09
40 05 19 00-1732 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	33,947.09	1,218.39
40 05 19 00-1733 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	36,602.34	1,495.29
40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)		
40 05 19 00-1735 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	766.45	244.60
40 05 19 00-1736 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	949.92	300.91
40 05 19 00-1737 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,334.00	335.98
40 05 19 00-1738 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,915.52	436.59
40 05 19 00-1739 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,545.66	476.28
40 05 19 00-1740 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,409.31	512.28
40 05 19 00-1741 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,862.27	646.12
40 05 19 00-1742 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,709.87	738.41
40 05 19 00-1743 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	5,940.92	932.26
40 05 19 00-1744 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	8,750.97	1,029.17
40 05 19 00-1745 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	14,895.02	1,421.45
40 05 19 00-1746 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	21,471.88	1,629.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1747 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	44,414.60	1,882.97
40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees (40 05 19 00-0001)		
40 05 19 00-1749 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	960.22	273.21
40 05 19 00-1750 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,188.70	278.75
40 05 19 00-1751 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,188.01	313.83
40 05 19 00-1752 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,567.54	308.29
40 05 19 00-1753 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,547.85	343.37
40 05 19 00-1754 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,632.08	365.52
40 05 19 00-1755 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,987.16	323.99
40 05 19 00-1756 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,981.71	359.05
40 05 19 00-1757 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,092.87	381.21
40 05 19 00-1758 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,493.47	452.28
40 05 19 00-1759 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,896.58	336.90
40 05 19 00-1760 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,834.14	371.98
40 05 19 00-1761 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,959.53	394.13
40 05 19 00-1762 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,125.81	465.20
40 05 19 00-1763 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,314.88	489.66
40 05 19 00-1764 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,513.37	376.13
40 05 19 00-1765 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,237.17	411.21
40 05 19 00-1766 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,185.23	433.36
40 05 19 00-1767 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,737.84	504.43
40 05 19 00-1768 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,627.66	528.89
40 05 19 00-1769 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,045.09	551.50
40 05 19 00-1770 EA 18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,296.73	417.67
40 05 19 00-1771 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,238.35	452.74
40 05 19 00-1772 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,900.50	474.89
40 05 19 00-1773 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,914.77	545.96
40 05 19 00-1774 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,260.60	570.43
40 05 19 00-1775 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,651.11	593.04
40 05 19 00-1776 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,976.55	687.65
40 05 19 00-1777 EA 20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,496.20	482.28
40 05 19 00-1778 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,761.27	517.35
40 05 19 00-1779 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,859.75	539.51
40 05 19 00-1780 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,065.61	610.58
40 05 19 00-1781 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,264.17	635.04
40 05 19 00-1782 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,331.68	657.65
40 05 19 00-1783 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,420.30	752.27
40 05 19 00-1784 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,562.13	803.03
40 05 19 00-1785 EA 24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,302.17	523.81
40 05 19 00-1786 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,443.30	558.89
40 05 19 00-1787 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,690.62	581.04
40 05 19 00-1788 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,917.06	652.11
40 05 19 00-1789 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,631.79	676.57
40 05 19 00-1790 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,795.88	699.19
40 05 19 00-1791 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	7,024.73	793.80
40 05 19 00-1792 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,231.27	844.56
40 05 19 00-1793 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,548.63	902.49
40 05 19 00-1794 EA 30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,183.62	674.26
40 05 19 00-1795 EA 30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,250.45	696.42
40 05 19 00-1796 EA 30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,568.71	767.50
40 05 19 00-1797 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,605.77	791.96
40 05 19 00-1798 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,640.03	814.56
40 05 19 00-1799 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,887.88	909.18
40 05 19 00-1800 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,034.47	959.94
40 05 19 00-1801 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,402.85	1,089.17
40 05 19 00-1802 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,875.15	1,144.55
40 05 19 00-1803 EA 36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,427.40	965.02
40 05 19 00-1804 EA 36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,503.73	982.55
40 05 19 00-1805 EA 36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,614.79	1,032.86
40 05 19 00-1806 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,749.35	1,052.71
40 05 19 00-1807 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,811.45	1,070.71
40 05 19 00-1808 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,982.52	1,137.62
40 05 19 00-1809 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,087.27	1,183.78
40 05 19 00-1810 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,373.45	1,280.69
40 05 19 00-1811 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,761.97	1,329.16
40 05 19 00-1812 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,258.90	1,525.29
40 05 19 00-1813 EA 42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	27,588.32	834.87
40 05 19 00-1814 EA 42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,947.29	905.94
40 05 19 00-1815 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,984.36	930.40
40 05 19 00-1816 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,055.03	953.02
40 05 19 00-1817 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,272.80	1,047.63
40 05 19 00-1818 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,536.56	1,098.39
40 05 19 00-1819 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,732.35	1,227.62
40 05 19 00-1820 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	26,113.93	1,283.00
40 05 19 00-1821 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,087.02	1,559.91
40 05 19 00-1822 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	42,506.60	1,705.28
40 05 19 00-1823 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,777.59	1,080.40
40 05 19 00-1824 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,811.85	1,103.01
40 05 19 00-1825 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,066.04	1,197.62

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,142.96	1,248.38
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,486.00	1,377.61
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,831.17	1,433.00
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	35,773.24	1,709.90
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-0001)		
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	826.62	244.60
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,122.50	300.91
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,631.67	335.98
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,477.61	436.59
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,324.67	476.28
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,713.31	512.28
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,609.61	646.12
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	5,598.14	738.41
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	7,473.61	932.26
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	10,749.17	1,029.17
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	18,006.32	1,421.45
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	25,650.36	1,629.14
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-0001)		
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	674.62	244.60
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	942.00	300.91
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,357.75	335.98
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,784.10	436.59
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,537.74	476.28
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	3,288.97	512.28
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-0001)		
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	926.88	336.90
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,219.70	365.06
40 05 19 00-1853 EA 6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,292.84	407.05
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,501.14	371.05
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,637.01	419.98
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,695.65	451.36
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,938.56	400.59
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,134.59	449.52
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,334.16	480.90
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,897.45	593.50
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,506.31	415.82
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,640.60	464.74
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,841.75	496.13
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,435.11	608.73
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,237.56	642.42
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,145.40	478.13
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,344.94	509.51
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,727.74	622.12
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,052.70	655.81
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,251.37	687.65
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,751.09	517.35
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,979.14	548.73
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,361.92	661.35
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,716.99	695.04
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,568.67	726.88
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,355.08	876.87
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,905.86	558.89
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,132.32	590.27
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,454.95	702.88
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,808.42	736.57
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,521.68	768.41
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,022.86	918.40
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,295.84	978.40
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,085.18	623.50
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,327.49	654.88
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,627.95	767.50
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,005.17	801.18
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,118.33	833.03
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,453.94	983.02
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,739.60	1,043.02
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,490.88	1,236.85
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,712.49	665.04
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,888.29	696.42
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,286.90	809.03
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,534.29	842.72
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,680.70	874.56
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,135.96	1,024.55
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,541.74	1,084.55



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1899	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	11,148.57	1,207.09
40 05 19 00-1900	EA	24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,275.10	1,347.61
40 05 19 00-1901	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,381.59	958.10
40 05 19 00-1902	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,464.68	989.94
40 05 19 00-1903	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,935.78	1,139.93
40 05 19 00-1904	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,096.34	1,199.93
40 05 19 00-1905	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,774.80	1,393.76
40 05 19 00-1906	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,895.09	1,462.99
40 05 19 00-1907	EA	30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	20,337.49	1,901.42
40 05 19 00-1908	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,487.17	1,218.85
40 05 19 00-1909	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,528.43	1,246.08
40 05 19 00-1910	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,925.91	1,368.38
40 05 19 00-1911	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,077.90	1,423.76
40 05 19 00-1912	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,637.73	1,585.29
40 05 19 00-1913	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	19,291.05	1,647.59
40 05 19 00-1914	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,080.93	2,005.26
40 05 19 00-1915	EA	36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	28,598.24	2,192.17
40 05 19 00-1916	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,795.01	1,096.55
40 05 19 00-1917	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,843.26	1,128.39
40 05 19 00-1918	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,293.78	1,278.38
40 05 19 00-1919	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,421.09	1,338.38
40 05 19 00-1920	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	27,050.46	1,532.22
40 05 19 00-1921	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	27,714.27	1,601.44
40 05 19 00-1922	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,676.28	2,039.88
40 05 19 00-1923	EA	42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	49,281.47	2,268.33
40 05 19 00-1924	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	36,557.88	2,547.54
40 05 19 00-1925	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,596.92	1,278.38
40 05 19 00-1926	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,049.01	1,428.37
40 05 19 00-1927	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,176.34	1,488.37
40 05 19 00-1928	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	35,767.69	1,682.21
40 05 19 00-1929	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	36,431.51	1,751.43
40 05 19 00-1930	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	38,101.24	2,189.87

40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)

40 05 19 00-1932	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	494.09	173.53
40 05 19 00-1933	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	629.26	186.45
40 05 19 00-1934	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	693.08	207.68
40 05 19 00-1935	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	845.02	215.98
40 05 19 00-1936	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	853.43	237.22
40 05 19 00-1937	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	996.51	250.13
40 05 19 00-1938	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,077.79	231.68
40 05 19 00-1939	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,114.70	252.90
40 05 19 00-1940	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,221.37	265.83
40 05 19 00-1941	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,373.80	295.37
40 05 19 00-1942	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,681.55	252.90
40 05 19 00-1943	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,341.70	265.83
40 05 19 00-1944	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,483.20	278.75
40 05 19 00-1945	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,630.87	308.29
40 05 19 00-1946	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,586.57	323.99
40 05 19 00-1947	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,989.66	283.83
40 05 19 00-1948	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,614.90	305.06
40 05 19 00-1949	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,526.81	317.98
40 05 19 00-1950	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,701.39	347.52
40 05 19 00-1951	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,106.06	362.75
40 05 19 00-1952	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,265.68	376.13
40 05 19 00-1953	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,517.01	346.59
40 05 19 00-1954	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,998.24	359.52
40 05 19 00-1955	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,195.00	389.05
40 05 19 00-1956	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,181.66	404.28
40 05 19 00-1957	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,509.11	417.67
40 05 19 00-1958	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,506.80	456.90
40 05 19 00-1959	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,578.49	411.21
40 05 19 00-1960	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,501.48	424.13
40 05 19 00-1961	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,709.32	453.67
40 05 19 00-1962	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,642.15	468.90
40 05 19 00-1963	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,047.18	482.28
40 05 19 00-1964	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,862.78	521.50
40 05 19 00-1965	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,527.39	563.05
40 05 19 00-1966	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,378.27	465.66
40 05 19 00-1967	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,814.10	495.20
40 05 19 00-1968	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,101.60	510.43
40 05 19 00-1969	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,210.55	523.81
40 05 19 00-1970	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,730.06	563.05
40 05 19 00-1971	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,500.76	604.58
40 05 19 00-1972	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,751.87	597.90
40 05 19 00-1973	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,474.67	678.42
40 05 19 00-1974	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,748.20	719.96
40 05 19 00-1975	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,265.68	784.57
40 05 19 00-1976	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,026.88	826.11

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1977 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,839.62	740.72
40 05 19 00-1978 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,285.72	782.27
40 05 19 00-1979 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,872.87	846.87
40 05 19 00-1980 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,740.14	888.40
40 05 19 00-1981 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,381.16	1,003.79
40 05 19 00-1982 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	15,018.18	964.56
40 05 19 00-1983 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,979.02	1,079.94
40 05 19 00-1984 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	19,196.71	1,142.24
40 05 19 00-1985 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	19,080.34	1,114.55
40 05 19 00-1986 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	21,414.86	1,229.93
40 05 19 00-1987 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	23,930.22	1,292.24
40 05 19 00-1988 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	26,802.23	1,368.38

40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

40 05 19 00-1990 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	536.84	173.53
40 05 19 00-1991 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	678.34	186.45
40 05 19 00-1992 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	770.67	207.68
40 05 19 00-1993 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	845.02	215.98
40 05 19 00-1994 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	905.68	237.22
40 05 19 00-1995 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,045.59	250.13
40 05 19 00-1996 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,077.79	231.68
40 05 19 00-1997 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,171.70	252.90
40 05 19 00-1998 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,281.53	265.83
40 05 19 00-1999 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,478.30	295.37
40 05 19 00-2000 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,341.70	265.83
40 05 19 00-2001 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,453.12	278.75
40 05 19 00-2002 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,619.79	308.29
40 05 19 00-2003 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,854.15	323.99
40 05 19 00-2004 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,614.90	305.06
40 05 19 00-2005 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,753.23	317.98
40 05 19 00-2006 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,949.98	347.52
40 05 19 00-2007 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,155.15	362.75
40 05 19 00-2008 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,265.68	376.13
40 05 19 00-2009 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,998.24	359.52
40 05 19 00-2010 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,195.00	389.05
40 05 19 00-2011 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,400.16	404.28
40 05 19 00-2012 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,509.11	417.67
40 05 19 00-2013 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,750.64	456.90
40 05 19 00-2014 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,917.33	411.21
40 05 19 00-2015 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,664.57	424.13
40 05 19 00-2016 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,709.32	453.67
40 05 19 00-2017 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,960.40	468.90
40 05 19 00-2018 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,047.18	482.28
40 05 19 00-2019 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,331.45	521.50
40 05 19 00-2020 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,525.80	563.05
40 05 19 00-2021 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,704.44	465.66
40 05 19 00-2022 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,814.10	495.20
40 05 19 00-2023 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,902.10	510.43
40 05 19 00-2024 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,987.30	523.81
40 05 19 00-2025 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,276.31	563.05
40 05 19 00-2026 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,500.76	604.58
40 05 19 00-2027 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,751.87	597.90
40 05 19 00-2028 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,743.67	639.20
40 05 19 00-2029 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,557.69	678.42
40 05 19 00-2030 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,783.03	719.96
40 05 19 00-2031 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,265.68	784.57
40 05 19 00-2032 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,026.88	826.11
40 05 19 00-2033 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,909.28	740.72
40 05 19 00-2034 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	9,285.72	782.27
40 05 19 00-2035 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	9,838.03	846.87
40 05 19 00-2036 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	10,702.14	888.40
40 05 19 00-2037 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,346.32	1,003.79
40 05 19 00-2038 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	15,018.18	964.56
40 05 19 00-2039 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,703.95	1,079.94
40 05 19 00-2040 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	19,196.71	1,142.24
40 05 19 00-2041 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	21,414.86	1,229.93
40 05 19 00-2042 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	23,930.22	1,292.24
40 05 19 00-2043 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	26,802.23	1,368.38

40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-0001)

40 05 19 00-2045 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	190.65	60.00
40 05 19 00-2046 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	286.26	88.61
40 05 19 00-2047 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	414.36	105.22
40 05 19 00-2048 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	569.18	122.76
40 05 19 00-2049 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	734.35	144.00
40 05 19 00-2050 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	969.92	161.52
40 05 19 00-2051 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,158.47	184.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2052 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,569.61	258.45
40 05 19 00-2053 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,083.92	323.06
40 05 19 00-2054 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,966.24	392.29
40 05 19 00-2055 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	4,178.83	456.90
40 05 19 00-2056 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,453.47	503.05
40 05 19 00-2057 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	10,503.94	553.81
40 05 19 00-2058 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	13,878.47	623.04
40 05 19 00-2059 Flanged End (FxF), Ductile Iron Flexible Ball Joint (40 05 19 00-0001)		
Note: All internal surfaces (wetted parts) shall be lined with a minimum of 15 mills of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61. Exterior surfaces shall be coated with a minimum of 6 mills of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.		
40 05 19 00-2060 EA 3" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	1,178.58	106.32
40 05 19 00-2061 EA 4" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	1,368.19	124.74
40 05 19 00-2062 EA 6" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	2,175.53	155.93
40 05 19 00-2063 EA 8" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	2,885.76	178.22
40 05 19 00-2064 EA 10" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	3,985.04	268.50
40 05 19 00-2065 EA 12" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	5,213.30	292.90
40 05 19 00-2066 EA 14" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	6,038.68	322.20
40 05 19 00-2067 EA 16" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	6,712.21	357.95
40 05 19 00-2068 EA 18" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	9,606.96	402.74
40 05 19 00-2069 EA 20" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	9,814.04	460.22
40 05 19 00-2070 EA 24" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	17,158.26	536.99
40 05 19 00-2071 EA 30" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	60,109.17	644.39
40 05 19 00-2072 EA 36" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	85,348.14	805.49
40 05 19 00-2073 Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Piping (40 05 19)		
Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be ceramic epoxy. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4103 for bolts, 40 05 19 00-4118 for gaskets.		
40 05 19 00-2074 Flanged End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2073)		
40 05 19 00-2075 4" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2076 EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,240.92	263.99
For Class 52 Rating, Deduct	-92.50	
For Class 54 Rating, Add	130.94	
For Class 55 Rating, Add	197.13	
For Class 56 Rating, Add	262.48	
40 05 19 00-2077 EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,367.60	268.60
For Class 52 Rating, Deduct	-105.67	
For Class 54 Rating, Add	148.98	
For Class 55 Rating, Add	223.99	
For Class 56 Rating, Add	298.04	
40 05 19 00-2078 EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,494.27	273.21
For Class 52 Rating, Deduct	-118.83	
For Class 54 Rating, Add	167.01	
For Class 55 Rating, Add	250.84	
For Class 56 Rating, Add	333.59	
40 05 19 00-2079 EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,620.96	277.83
For Class 52 Rating, Deduct	-132.00	
For Class 54 Rating, Add	185.05	
For Class 55 Rating, Add	277.70	
For Class 56 Rating, Add	369.15	
40 05 19 00-2080 EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,747.63	282.44
For Class 52 Rating, Deduct	-145.16	
For Class 54 Rating, Add	203.09	
For Class 55 Rating, Add	304.56	
For Class 56 Rating, Add	404.71	
40 05 19 00-2081 EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,874.31	287.06
For Class 52 Rating, Deduct	-158.33	
For Class 54 Rating, Add	221.12	
For Class 55 Rating, Add	331.42	
For Class 56 Rating, Add	440.27	
40 05 19 00-2082 EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,000.99	291.68
For Class 52 Rating, Deduct	-171.50	
For Class 54 Rating, Add	239.16	
For Class 55 Rating, Add	358.27	
For Class 56 Rating, Add	475.83	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2083	EA	4" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		2,127.66	296.29
		For Class 52 Rating, Deduct		-184.66	
		For Class 54 Rating, Add		257.20	
		For Class 55 Rating, Add		385.13	
		For Class 56 Rating, Add		511.39	
40 05 19 00-2084	EA	4" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		2,254.33	300.91
		For Class 52 Rating, Deduct		-197.83	
		For Class 54 Rating, Add		275.23	
		For Class 55 Rating, Add		411.99	
		For Class 56 Rating, Add		546.95	
40 05 19 00-2085	EA	4" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		2,381.02	305.52
		For Class 52 Rating, Deduct		-210.99	
		For Class 54 Rating, Add		293.27	
		For Class 55 Rating, Add		438.85	
		For Class 56 Rating, Add		582.51	
40 05 19 00-2086	EA	4" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		2,507.69	310.13
		For Class 52 Rating, Deduct		-224.16	
		For Class 54 Rating, Add		311.31	
		For Class 55 Rating, Add		465.70	
		For Class 56 Rating, Add		618.06	
40 05 19 00-2087	EA	4" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		2,634.37	314.75
		For Class 52 Rating, Deduct		-237.32	
		For Class 54 Rating, Add		329.34	
		For Class 55 Rating, Add		492.56	
		For Class 56 Rating, Add		653.62	
40 05 19 00-2088	EA	4" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		2,761.05	319.36
		For Class 52 Rating, Deduct		-250.49	
		For Class 54 Rating, Add		347.38	
		For Class 55 Rating, Add		519.42	
		For Class 56 Rating, Add		689.18	
40 05 19 00-2089	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		2,887.73	323.99
		For Class 52 Rating, Deduct		-263.65	
		For Class 54 Rating, Add		365.42	
		For Class 55 Rating, Add		546.28	
		For Class 56 Rating, Add		724.74	
40 05 19 00-2090	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		3,014.40	328.60
		For Class 52 Rating, Deduct		-276.82	
		For Class 54 Rating, Add		383.45	
		For Class 55 Rating, Add		573.14	
		For Class 56 Rating, Add		760.30	
40 05 19 00-2091	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		3,141.09	333.21
		For Class 52 Rating, Deduct		-289.98	
		For Class 54 Rating, Add		401.49	
		For Class 55 Rating, Add		599.99	
		For Class 56 Rating, Add		795.86	
40 05 19 00-2092	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		3,267.76	337.83
		For Class 52 Rating, Deduct		-303.15	
		For Class 54 Rating, Add		419.53	
		For Class 55 Rating, Add		626.85	
		For Class 56 Rating, Add		831.42	
40 05 19 00-2093	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		3,394.43	342.44
		For Class 52 Rating, Deduct		-316.31	
		For Class 54 Rating, Add		437.56	
		For Class 55 Rating, Add		653.71	
		For Class 56 Rating, Add		866.97	
40 05 19 00-2094	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		3,521.12	347.05
		For Class 52 Rating, Deduct		-329.48	
		For Class 54 Rating, Add		455.60	
		For Class 55 Rating, Add		680.57	
		For Class 56 Rating, Add		902.54	
40 05 19 00-2095	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		3,647.78	351.67
		For Class 52 Rating, Deduct		-342.64	
		For Class 54 Rating, Add		473.64	
		For Class 55 Rating, Add		707.42	
		For Class 56 Rating, Add		938.09	
40 05 19 00-2096	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe		3,774.46	356.28
		For Class 52 Rating, Deduct		-355.81	
		For Class 54 Rating, Add		491.67	
		For Class 55 Rating, Add		734.28	
		For Class 56 Rating, Add		973.65	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2097	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,901.14	360.91
		For Class 52 Rating, Deduct	-368.98	
		For Class 54 Rating, Add	509.71	
		For Class 55 Rating, Add	761.14	
		For Class 56 Rating, Add	1,009.21	
40 05 19 00-2098	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,027.82	365.52
		For Class 52 Rating, Deduct	-382.14	
		For Class 54 Rating, Add	527.75	
		For Class 55 Rating, Add	788.00	
		For Class 56 Rating, Add	1,044.77	
40 05 19 00-2099	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,154.49	370.13
		For Class 52 Rating, Deduct	-395.31	
		For Class 54 Rating, Add	545.78	
		For Class 55 Rating, Add	814.85	
		For Class 56 Rating, Add	1,080.33	
40 05 19 00-2100	EA	4" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,281.18	374.75
		For Class 52 Rating, Deduct	-408.47	
		For Class 54 Rating, Add	563.82	
		For Class 55 Rating, Add	841.71	
		For Class 56 Rating, Add	1,115.89	
40 05 19 00-2101	EA	4" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,407.85	379.36
		For Class 52 Rating, Deduct	-421.64	
		For Class 54 Rating, Add	581.86	
		For Class 55 Rating, Add	868.57	
		For Class 56 Rating, Add	1,151.45	
40 05 19 00-2102	EA	4" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,534.53	383.98
		For Class 52 Rating, Deduct	-434.80	
		For Class 54 Rating, Add	599.89	
		For Class 55 Rating, Add	895.43	
		For Class 56 Rating, Add	1,187.01	
40 05 19 00-2103	EA	4" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,661.21	388.59
		For Class 52 Rating, Deduct	-447.97	
		For Class 54 Rating, Add	617.93	
		For Class 55 Rating, Add	922.28	
		For Class 56 Rating, Add	1,222.56	
40 05 19 00-2104	EA	4" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,787.89	393.20
		For Class 52 Rating, Deduct	-461.13	
		For Class 54 Rating, Add	635.97	
		For Class 55 Rating, Add	949.14	
		For Class 56 Rating, Add	1,258.12	
40 05 19 00-2105	EA	4" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,914.56	397.83
		For Class 52 Rating, Deduct	-474.30	
		For Class 54 Rating, Add	654.00	
		For Class 55 Rating, Add	976.00	
		For Class 56 Rating, Add	1,293.68	
40 05 19 00-2106	EA	4" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,041.25	402.44
		For Class 52 Rating, Deduct	-487.46	
		For Class 54 Rating, Add	672.04	
		For Class 55 Rating, Add	1,002.86	
		For Class 56 Rating, Add	1,329.24	
40 05 19 00-2107	EA	4" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,167.92	407.05
		For Class 52 Rating, Deduct	-500.63	
		For Class 54 Rating, Add	690.08	
		For Class 55 Rating, Add	1,029.71	
		For Class 56 Rating, Add	1,364.80	
40 05 19 00-2108	EA	4" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,294.59	411.67
		For Class 52 Rating, Deduct	-513.79	
		For Class 54 Rating, Add	708.11	
		For Class 55 Rating, Add	1,056.57	
		For Class 56 Rating, Add	1,400.36	
40 05 19 00-2109	EA	4" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,421.27	416.28
		For Class 52 Rating, Deduct	-526.96	
		For Class 54 Rating, Add	726.15	
		For Class 55 Rating, Add	1,083.43	
		For Class 56 Rating, Add	1,435.92	
40 05 19 00-2110	EA	4" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,547.95	420.90
		For Class 52 Rating, Deduct	-540.13	
		For Class 54 Rating, Add	744.19	
		For Class 55 Rating, Add	1,110.29	
		For Class 56 Rating, Add	1,471.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2111	EA	4" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,674.63		425.51
		For Class 52 Rating, Deduct		-553.29		
		For Class 54 Rating, Add		762.22		
		For Class 55 Rating, Add		1,137.14		
		For Class 56 Rating, Add		1,507.03		
40 05 19 00-2112	EA	4" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,801.31		430.12
		For Class 52 Rating, Deduct		-566.46		
		For Class 54 Rating, Add		780.26		
		For Class 55 Rating, Add		1,164.00		
		For Class 56 Rating, Add		1,542.59		
40 05 19 00-2113	EA	4" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,927.98		434.75
		For Class 52 Rating, Deduct		-579.62		
		For Class 54 Rating, Add		798.30		
		For Class 55 Rating, Add		1,190.86		
		For Class 56 Rating, Add		1,578.15		
40 05 19 00-2114	EA	4" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,054.67		439.36
		For Class 52 Rating, Deduct		-592.79		
		For Class 54 Rating, Add		816.33		
		For Class 55 Rating, Add		1,217.72		
		For Class 56 Rating, Add		1,613.71		
40 05 19 00-2115 6" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)						
40 05 19 00-2116	EA	6" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,552.28		332.29
		For Class 52 Rating, Deduct		-115.37		
		For Class 54 Rating, Add		163.36		
		For Class 55 Rating, Add		245.97		
		For Class 56 Rating, Add		327.53		
40 05 19 00-2117	EA	6" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,697.86		336.90
		For Class 52 Rating, Deduct		-130.61		
		For Class 54 Rating, Add		184.24		
		For Class 55 Rating, Add		277.04		
		For Class 56 Rating, Add		368.66		
40 05 19 00-2118	EA	6" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,843.43		341.51
		For Class 52 Rating, Deduct		-145.86		
		For Class 54 Rating, Add		205.11		
		For Class 55 Rating, Add		308.11		
		For Class 56 Rating, Add		409.79		
40 05 19 00-2119	EA	6" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,989.00		346.14
		For Class 52 Rating, Deduct		-161.10		
		For Class 54 Rating, Add		225.98		
		For Class 55 Rating, Add		339.18		
		For Class 56 Rating, Add		450.93		
40 05 19 00-2120	EA	6" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,134.59		350.75
		For Class 52 Rating, Deduct		-176.35		
		For Class 54 Rating, Add		246.85		
		For Class 55 Rating, Add		370.26		
		For Class 56 Rating, Add		492.06		
40 05 19 00-2121	EA	6" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,280.16		355.37
		For Class 52 Rating, Deduct		-191.59		
		For Class 54 Rating, Add		267.72		
		For Class 55 Rating, Add		401.33		
		For Class 56 Rating, Add		533.19		
40 05 19 00-2122	EA	6" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,425.73		359.98
		For Class 52 Rating, Deduct		-206.83		
		For Class 54 Rating, Add		288.59		
		For Class 55 Rating, Add		432.40		
		For Class 56 Rating, Add		574.33		
40 05 19 00-2123	EA	6" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,571.31		364.59
		For Class 52 Rating, Deduct		-222.08		
		For Class 54 Rating, Add		309.46		
		For Class 55 Rating, Add		463.47		
		For Class 56 Rating, Add		615.46		
40 05 19 00-2124	EA	6" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,716.89		369.21
		For Class 52 Rating, Deduct		-237.32		
		For Class 54 Rating, Add		330.33		
		For Class 55 Rating, Add		494.54		
		For Class 56 Rating, Add		656.60		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2125	EA	6" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,862.47	373.82
		For Class 52 Rating, Deduct		-252.57	
		For Class 54 Rating, Add		351.21	
		For Class 55 Rating, Add		525.62	
		For Class 56 Rating, Add		697.73	
40 05 19 00-2126	EA	6" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,008.03	378.44
		For Class 52 Rating, Deduct		-267.81	
		For Class 54 Rating, Add		372.08	
		For Class 55 Rating, Add		556.69	
		For Class 56 Rating, Add		738.86	
40 05 19 00-2127	EA	6" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,153.60	383.06
		For Class 52 Rating, Deduct		-283.05	
		For Class 54 Rating, Add		392.95	
		For Class 55 Rating, Add		587.76	
		For Class 56 Rating, Add		779.99	
40 05 19 00-2128	EA	6" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,299.19	387.67
		For Class 52 Rating, Deduct		-298.30	
		For Class 54 Rating, Add		413.82	
		For Class 55 Rating, Add		618.83	
		For Class 56 Rating, Add		821.13	
40 05 19 00-2129	EA	6" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,444.76	392.29
		For Class 52 Rating, Deduct		-313.54	
		For Class 54 Rating, Add		434.69	
		For Class 55 Rating, Add		649.90	
		For Class 56 Rating, Add		862.26	
40 05 19 00-2130	EA	6" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,590.33	396.90
		For Class 52 Rating, Deduct		-328.79	
		For Class 54 Rating, Add		455.56	
		For Class 55 Rating, Add		680.97	
		For Class 56 Rating, Add		903.40	
40 05 19 00-2131	EA	6" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,735.91	401.51
		For Class 52 Rating, Deduct		-344.03	
		For Class 54 Rating, Add		476.43	
		For Class 55 Rating, Add		712.04	
		For Class 56 Rating, Add		944.53	
40 05 19 00-2132	EA	6" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,881.49	406.13
		For Class 52 Rating, Deduct		-359.28	
		For Class 54 Rating, Add		497.31	
		For Class 55 Rating, Add		743.12	
		For Class 56 Rating, Add		985.66	
40 05 19 00-2133	EA	6" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,027.06	410.74
		For Class 52 Rating, Deduct		-374.52	
		For Class 54 Rating, Add		518.18	
		For Class 55 Rating, Add		774.19	
		For Class 56 Rating, Add		1,026.80	
40 05 19 00-2134	EA	6" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,172.64	415.36
		For Class 52 Rating, Deduct		-389.76	
		For Class 54 Rating, Add		539.05	
		For Class 55 Rating, Add		805.26	
		For Class 56 Rating, Add		1,067.93	
40 05 19 00-2135	EA	6" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,318.21	419.98
		For Class 52 Rating, Deduct		-405.01	
		For Class 54 Rating, Add		559.92	
		For Class 55 Rating, Add		836.33	
		For Class 56 Rating, Add		1,109.06	
40 05 19 00-2136	EA	6" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,463.78	424.59
		For Class 52 Rating, Deduct		-420.25	
		For Class 54 Rating, Add		580.79	
		For Class 55 Rating, Add		867.40	
		For Class 56 Rating, Add		1,150.20	
40 05 19 00-2137	EA	6" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,609.37	429.21
		For Class 52 Rating, Deduct		-435.50	
		For Class 54 Rating, Add		601.66	
		For Class 55 Rating, Add		898.48	
		For Class 56 Rating, Add		1,191.33	
40 05 19 00-2138	EA	6" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,754.93	433.82
		For Class 52 Rating, Deduct		-450.74	
		For Class 54 Rating, Add		622.53	
		For Class 55 Rating, Add		929.55	
		For Class 56 Rating, Add		1,232.46	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2139	EA		6" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,900.50	438.43
			For Class 52 Rating, Deduct	-465.98	
			For Class 54 Rating, Add	643.40	
			For Class 55 Rating, Add	960.62	
			For Class 56 Rating, Add	1,273.60	
40 05 19 00-2140	EA		6" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,046.08	443.05
			For Class 52 Rating, Deduct	-481.23	
			For Class 54 Rating, Add	664.27	
			For Class 55 Rating, Add	991.69	
			For Class 56 Rating, Add	1,314.73	
40 05 19 00-2141	EA		6" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,191.66	447.66
			For Class 52 Rating, Deduct	-496.47	
			For Class 54 Rating, Add	685.15	
			For Class 55 Rating, Add	1,022.76	
			For Class 56 Rating, Add	1,355.87	
40 05 19 00-2142	EA		6" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,337.23	452.28
			For Class 52 Rating, Deduct	-511.72	
			For Class 54 Rating, Add	706.02	
			For Class 55 Rating, Add	1,053.83	
			For Class 56 Rating, Add	1,397.00	
40 05 19 00-2143	EA		6" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,482.81	456.90
			For Class 52 Rating, Deduct	-526.96	
			For Class 54 Rating, Add	726.89	
			For Class 55 Rating, Add	1,084.90	
			For Class 56 Rating, Add	1,438.13	
40 05 19 00-2144	EA		6" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,628.38	461.51
			For Class 52 Rating, Deduct	-542.20	
			For Class 54 Rating, Add	747.76	
			For Class 55 Rating, Add	1,115.98	
			For Class 56 Rating, Add	1,479.26	
40 05 19 00-2145	EA		6" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,773.96	466.13
			For Class 52 Rating, Deduct	-557.45	
			For Class 54 Rating, Add	768.63	
			For Class 55 Rating, Add	1,147.05	
			For Class 56 Rating, Add	1,520.40	
40 05 19 00-2146	EA		6" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,919.54	470.74
			For Class 52 Rating, Deduct	-572.69	
			For Class 54 Rating, Add	789.50	
			For Class 55 Rating, Add	1,178.12	
			For Class 56 Rating, Add	1,561.53	
40 05 19 00-2147	EA		6" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,065.11	475.36
			For Class 52 Rating, Deduct	-587.94	
			For Class 54 Rating, Add	810.37	
			For Class 55 Rating, Add	1,209.19	
			For Class 56 Rating, Add	1,602.67	
40 05 19 00-2148	EA		6" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,210.68	479.97
			For Class 52 Rating, Deduct	-603.18	
			For Class 54 Rating, Add	831.24	
			For Class 55 Rating, Add	1,240.26	
			For Class 56 Rating, Add	1,643.80	
40 05 19 00-2149	EA		6" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,356.27	484.58
			For Class 52 Rating, Deduct	-618.42	
			For Class 54 Rating, Add	852.12	
			For Class 55 Rating, Add	1,271.34	
			For Class 56 Rating, Add	1,684.93	
40 05 19 00-2150	EA		6" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,501.84	489.20
			For Class 52 Rating, Deduct	-633.67	
			For Class 54 Rating, Add	872.99	
			For Class 55 Rating, Add	1,302.41	
			For Class 56 Rating, Add	1,726.07	
40 05 19 00-2151	EA		6" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,647.40	493.82
			For Class 52 Rating, Deduct	-648.91	
			For Class 54 Rating, Add	893.86	
			For Class 55 Rating, Add	1,333.48	
			For Class 56 Rating, Add	1,767.20	
40 05 19 00-2152	EA		6" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,792.98	498.43
			For Class 52 Rating, Deduct	-664.16	
			For Class 54 Rating, Add	914.73	
			For Class 55 Rating, Add	1,364.55	
			For Class 56 Rating, Add	1,808.33	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2153	EA	6" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,938.56	503.05
		For Class 52 Rating, Deduct		-679.40	
		For Class 54 Rating, Add		935.60	
		For Class 55 Rating, Add		1,395.62	
		For Class 56 Rating, Add		1,849.47	
40 05 19 00-2154	EA	6" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,084.13	507.66
		For Class 52 Rating, Deduct		-694.64	
		For Class 54 Rating, Add		956.47	
		For Class 55 Rating, Add		1,426.69	
		For Class 56 Rating, Add		1,890.60	
40 05 19 00-2155		8" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)			
40 05 19 00-2156	EA	8" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,158.28	424.59
		For Class 52 Rating, Deduct		-166.65	
		For Class 54 Rating, Add		234.96	
		For Class 55 Rating, Add		353.28	
		For Class 56 Rating, Add		470.07	
40 05 19 00-2157	EA	8" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,344.80	429.21
		For Class 52 Rating, Deduct		-186.39	
		For Class 54 Rating, Add		261.98	
		For Class 55 Rating, Add		393.48	
		For Class 56 Rating, Add		523.28	
40 05 19 00-2158	EA	8" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,531.31	433.82
		For Class 52 Rating, Deduct		-206.14	
		For Class 54 Rating, Add		288.99	
		For Class 55 Rating, Add		433.68	
		For Class 56 Rating, Add		576.50	
40 05 19 00-2159	EA	8" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,717.83	438.43
		For Class 52 Rating, Deduct		-225.89	
		For Class 54 Rating, Add		316.00	
		For Class 55 Rating, Add		473.88	
		For Class 56 Rating, Add		629.71	
40 05 19 00-2160	EA	8" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,904.36	443.05
		For Class 52 Rating, Deduct		-245.64	
		For Class 54 Rating, Add		343.02	
		For Class 55 Rating, Add		514.09	
		For Class 56 Rating, Add		682.92	
40 05 19 00-2161	EA	8" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,090.87	447.66
		For Class 52 Rating, Deduct		-265.38	
		For Class 54 Rating, Add		370.03	
		For Class 55 Rating, Add		554.29	
		For Class 56 Rating, Add		736.13	
40 05 19 00-2162	EA	8" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,277.39	452.28
		For Class 52 Rating, Deduct		-285.13	
		For Class 54 Rating, Add		397.04	
		For Class 55 Rating, Add		594.49	
		For Class 56 Rating, Add		789.35	
40 05 19 00-2163	EA	8" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,463.92	456.90
		For Class 52 Rating, Deduct		-304.88	
		For Class 54 Rating, Add		424.05	
		For Class 55 Rating, Add		634.69	
		For Class 56 Rating, Add		842.56	
40 05 19 00-2164	EA	8" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,650.44	461.51
		For Class 52 Rating, Deduct		-324.63	
		For Class 54 Rating, Add		451.07	
		For Class 55 Rating, Add		674.90	
		For Class 56 Rating, Add		895.77	
40 05 19 00-2165	EA	8" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,836.95	466.13
		For Class 52 Rating, Deduct		-344.38	
		For Class 54 Rating, Add		478.08	
		For Class 55 Rating, Add		715.10	
		For Class 56 Rating, Add		948.98	
40 05 19 00-2166	EA	8" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,023.48	470.74
		For Class 52 Rating, Deduct		-364.13	
		For Class 54 Rating, Add		505.09	
		For Class 55 Rating, Add		755.30	
		For Class 56 Rating, Add		1,002.19	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2167	EA		8" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,210.00	475.36
			For Class 52 Rating, Deduct	-383.87	
			For Class 54 Rating, Add	532.11	
			For Class 55 Rating, Add	795.50	
			For Class 56 Rating, Add	1,055.41	
40 05 19 00-2168	EA		8" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,396.51	479.97
			For Class 52 Rating, Deduct	-403.62	
			For Class 54 Rating, Add	559.12	
			For Class 55 Rating, Add	835.70	
			For Class 56 Rating, Add	1,108.62	
40 05 19 00-2169	EA		8" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,583.04	484.58
			For Class 52 Rating, Deduct	-423.37	
			For Class 54 Rating, Add	586.13	
			For Class 55 Rating, Add	875.91	
			For Class 56 Rating, Add	1,161.83	
40 05 19 00-2170	EA		8" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,769.56	489.20
			For Class 52 Rating, Deduct	-443.12	
			For Class 54 Rating, Add	613.15	
			For Class 55 Rating, Add	916.11	
			For Class 56 Rating, Add	1,215.04	
40 05 19 00-2171	EA		8" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,956.07	493.82
			For Class 52 Rating, Deduct	-462.87	
			For Class 54 Rating, Add	640.16	
			For Class 55 Rating, Add	956.31	
			For Class 56 Rating, Add	1,268.26	
40 05 19 00-2172	EA		8" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,142.59	498.43
			For Class 52 Rating, Deduct	-482.61	
			For Class 54 Rating, Add	667.17	
			For Class 55 Rating, Add	996.51	
			For Class 56 Rating, Add	1,321.47	
40 05 19 00-2173	EA		8" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,329.11	503.05
			For Class 52 Rating, Deduct	-502.36	
			For Class 54 Rating, Add	694.18	
			For Class 55 Rating, Add	1,036.72	
			For Class 56 Rating, Add	1,374.68	
40 05 19 00-2174	EA		8" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,515.63	507.66
			For Class 52 Rating, Deduct	-522.11	
			For Class 54 Rating, Add	721.20	
			For Class 55 Rating, Add	1,076.92	
			For Class 56 Rating, Add	1,427.89	
40 05 19 00-2175	EA		8" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,702.15	512.28
			For Class 52 Rating, Deduct	-541.86	
			For Class 54 Rating, Add	748.21	
			For Class 55 Rating, Add	1,117.12	
			For Class 56 Rating, Add	1,481.10	
40 05 19 00-2176	EA		8" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,888.67	516.89
			For Class 52 Rating, Deduct	-561.61	
			For Class 54 Rating, Add	775.22	
			For Class 55 Rating, Add	1,157.32	
			For Class 56 Rating, Add	1,534.32	
40 05 19 00-2177	EA		8" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,075.19	521.50
			For Class 52 Rating, Deduct	-581.35	
			For Class 54 Rating, Add	802.24	
			For Class 55 Rating, Add	1,197.53	
			For Class 56 Rating, Add	1,587.53	
40 05 19 00-2178	EA		8" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,261.72	526.12
			For Class 52 Rating, Deduct	-601.10	
			For Class 54 Rating, Add	829.25	
			For Class 55 Rating, Add	1,237.73	
			For Class 56 Rating, Add	1,640.74	
40 05 19 00-2179	EA		8" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,448.23	530.74
			For Class 52 Rating, Deduct	-620.85	
			For Class 54 Rating, Add	856.26	
			For Class 55 Rating, Add	1,277.93	
			For Class 56 Rating, Add	1,693.95	
40 05 19 00-2180	EA		8" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,634.75	535.36
			For Class 52 Rating, Deduct	-640.60	
			For Class 54 Rating, Add	883.28	
			For Class 55 Rating, Add	1,318.13	
			For Class 56 Rating, Add	1,747.17	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2181	EA	8" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,821.28	539.97
		For Class 52 Rating, Deduct	-660.35	
		For Class 54 Rating, Add	910.29	
		For Class 55 Rating, Add	1,358.34	
		For Class 56 Rating, Add	1,800.38	
40 05 19 00-2182	EA	8" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,007.79	544.58
		For Class 52 Rating, Deduct	-680.09	
		For Class 54 Rating, Add	937.30	
		For Class 55 Rating, Add	1,398.54	
		For Class 56 Rating, Add	1,853.59	
40 05 19 00-2183	EA	8" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,194.30	549.20
		For Class 52 Rating, Deduct	-699.84	
		For Class 54 Rating, Add	964.31	
		For Class 55 Rating, Add	1,438.74	
		For Class 56 Rating, Add	1,906.80	
40 05 19 00-2184	EA	8" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,380.83	553.81
		For Class 52 Rating, Deduct	-719.59	
		For Class 54 Rating, Add	991.33	
		For Class 55 Rating, Add	1,478.94	
		For Class 56 Rating, Add	1,960.02	
40 05 19 00-2185	EA	8" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,567.35	558.42
		For Class 52 Rating, Deduct	-739.34	
		For Class 54 Rating, Add	1,018.34	
		For Class 55 Rating, Add	1,519.15	
		For Class 56 Rating, Add	2,013.23	
40 05 19 00-2186	EA	8" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,753.86	563.05
		For Class 52 Rating, Deduct	-759.08	
		For Class 54 Rating, Add	1,045.35	
		For Class 55 Rating, Add	1,559.35	
		For Class 56 Rating, Add	2,066.44	
40 05 19 00-2187	EA	8" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,940.39	567.66
		For Class 52 Rating, Deduct	-778.83	
		For Class 54 Rating, Add	1,072.37	
		For Class 55 Rating, Add	1,599.55	
		For Class 56 Rating, Add	2,119.65	
40 05 19 00-2188	EA	8" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,126.91	572.28
		For Class 52 Rating, Deduct	-798.58	
		For Class 54 Rating, Add	1,099.38	
		For Class 55 Rating, Add	1,639.75	
		For Class 56 Rating, Add	2,172.86	
40 05 19 00-2189	EA	8" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,313.43	576.89
		For Class 52 Rating, Deduct	-818.33	
		For Class 54 Rating, Add	1,126.39	
		For Class 55 Rating, Add	1,679.95	
		For Class 56 Rating, Add	2,226.08	
40 05 19 00-2190	EA	8" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,499.95	581.50
		For Class 52 Rating, Deduct	-838.08	
		For Class 54 Rating, Add	1,153.40	
		For Class 55 Rating, Add	1,720.16	
		For Class 56 Rating, Add	2,279.29	
40 05 19 00-2191	EA	8" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,686.47	586.12
		For Class 52 Rating, Deduct	-857.83	
		For Class 54 Rating, Add	1,180.42	
		For Class 55 Rating, Add	1,760.36	
		For Class 56 Rating, Add	2,332.50	
40 05 19 00-2192	EA	8" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,872.99	590.73
		For Class 52 Rating, Deduct	-877.57	
		For Class 54 Rating, Add	1,207.43	
		For Class 55 Rating, Add	1,800.56	
		For Class 56 Rating, Add	2,385.71	
40 05 19 00-2193	EA	8" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,059.51	595.35
		For Class 52 Rating, Deduct	-897.32	
		For Class 54 Rating, Add	1,234.44	
		For Class 55 Rating, Add	1,840.76	
		For Class 56 Rating, Add	2,438.92	
40 05 19 00-2194	EA	8" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,246.03	599.97
		For Class 52 Rating, Deduct	-917.07	
		For Class 54 Rating, Add	1,261.46	
		For Class 55 Rating, Add	1,880.97	
		For Class 56 Rating, Add	2,492.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2195			10" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2196	EA		10" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,723.32	516.89
			For Class 52 Rating, Deduct	-213.42	
			For Class 54 Rating, Add	300.42	
			For Class 55 Rating, Add	451.45	
			For Class 56 Rating, Add	600.54	
40 05 19 00-2197	EA		10" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,963.38	521.50
			For Class 52 Rating, Deduct	-239.05	
			For Class 54 Rating, Add	335.46	
			For Class 55 Rating, Add	503.59	
			For Class 56 Rating, Add	669.55	
40 05 19 00-2198	EA		10" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,203.45	526.12
			For Class 52 Rating, Deduct	-264.69	
			For Class 54 Rating, Add	370.51	
			For Class 55 Rating, Add	555.73	
			For Class 56 Rating, Add	738.55	
40 05 19 00-2199	EA		10" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,443.51	530.74
			For Class 52 Rating, Deduct	-290.33	
			For Class 54 Rating, Add	405.55	
			For Class 55 Rating, Add	607.88	
			For Class 56 Rating, Add	807.56	
40 05 19 00-2200	EA		10" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,683.58	535.36
			For Class 52 Rating, Deduct	-315.97	
			For Class 54 Rating, Add	440.60	
			For Class 55 Rating, Add	660.02	
			For Class 56 Rating, Add	876.57	
40 05 19 00-2201	EA		10" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,923.65	539.97
			For Class 52 Rating, Deduct	-341.61	
			For Class 54 Rating, Add	475.64	
			For Class 55 Rating, Add	712.16	
			For Class 56 Rating, Add	945.58	
40 05 19 00-2202	EA		10" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,163.71	544.58
			For Class 52 Rating, Deduct	-367.24	
			For Class 54 Rating, Add	510.69	
			For Class 55 Rating, Add	764.31	
			For Class 56 Rating, Add	1,014.59	
40 05 19 00-2203	EA		10" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,403.76	549.20
			For Class 52 Rating, Deduct	-392.88	
			For Class 54 Rating, Add	545.73	
			For Class 55 Rating, Add	816.45	
			For Class 56 Rating, Add	1,083.59	
40 05 19 00-2204	EA		10" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,643.83	553.81
			For Class 52 Rating, Deduct	-418.52	
			For Class 54 Rating, Add	580.78	
			For Class 55 Rating, Add	868.59	
			For Class 56 Rating, Add	1,152.60	
40 05 19 00-2205	EA		10" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,883.89	558.42
			For Class 52 Rating, Deduct	-444.16	
			For Class 54 Rating, Add	615.82	
			For Class 55 Rating, Add	920.73	
			For Class 56 Rating, Add	1,221.61	
40 05 19 00-2206	EA		10" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,123.95	563.05
			For Class 52 Rating, Deduct	-469.79	
			For Class 54 Rating, Add	650.87	
			For Class 55 Rating, Add	972.88	
			For Class 56 Rating, Add	1,290.61	
40 05 19 00-2207	EA		10" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,364.02	567.66
			For Class 52 Rating, Deduct	-495.43	
			For Class 54 Rating, Add	685.91	
			For Class 55 Rating, Add	1,025.02	
			For Class 56 Rating, Add	1,359.62	
40 05 19 00-2208	EA		10" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,604.08	572.28
			For Class 52 Rating, Deduct	-521.07	
			For Class 54 Rating, Add	720.95	
			For Class 55 Rating, Add	1,077.16	
			For Class 56 Rating, Add	1,428.63	
40 05 19 00-2209	EA		10" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,844.14	576.89
			For Class 52 Rating, Deduct	-546.71	
			For Class 54 Rating, Add	756.00	
			For Class 55 Rating, Add	1,129.30	
			For Class 56 Rating, Add	1,497.64	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2210	EA	10" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,084.21	581.50
		For Class 52 Rating, Deduct	-572.35	
		For Class 54 Rating, Add	791.04	
		For Class 55 Rating, Add	1,181.45	
		For Class 56 Rating, Add	1,566.64	
40 05 19 00-2211	EA	10" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,324.27	586.12
		For Class 52 Rating, Deduct	-597.98	
		For Class 54 Rating, Add	826.09	
		For Class 55 Rating, Add	1,233.59	
		For Class 56 Rating, Add	1,635.65	
40 05 19 00-2212	EA	10" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,564.33	590.73
		For Class 52 Rating, Deduct	-623.62	
		For Class 54 Rating, Add	861.13	
		For Class 55 Rating, Add	1,285.73	
		For Class 56 Rating, Add	1,704.66	
40 05 19 00-2213	EA	10" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,804.40	595.35
		For Class 52 Rating, Deduct	-649.26	
		For Class 54 Rating, Add	896.18	
		For Class 55 Rating, Add	1,337.87	
		For Class 56 Rating, Add	1,773.67	
40 05 19 00-2214	EA	10" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,044.46	599.97
		For Class 52 Rating, Deduct	-674.90	
		For Class 54 Rating, Add	931.22	
		For Class 55 Rating, Add	1,390.02	
		For Class 56 Rating, Add	1,842.67	
40 05 19 00-2215	EA	10" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,284.52	604.58
		For Class 52 Rating, Deduct	-700.53	
		For Class 54 Rating, Add	966.27	
		For Class 55 Rating, Add	1,442.16	
		For Class 56 Rating, Add	1,911.68	
40 05 19 00-2216	EA	10" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,524.58	609.20
		For Class 52 Rating, Deduct	-726.17	
		For Class 54 Rating, Add	1,001.31	
		For Class 55 Rating, Add	1,494.30	
		For Class 56 Rating, Add	1,980.69	
40 05 19 00-2217	EA	10" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,764.64	613.81
		For Class 52 Rating, Deduct	-751.81	
		For Class 54 Rating, Add	1,036.35	
		For Class 55 Rating, Add	1,546.44	
		For Class 56 Rating, Add	2,049.70	
40 05 19 00-2218	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,004.71	618.42
		For Class 52 Rating, Deduct	-777.45	
		For Class 54 Rating, Add	1,071.40	
		For Class 55 Rating, Add	1,598.59	
		For Class 56 Rating, Add	2,118.70	
40 05 19 00-2219	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,244.77	623.04
		For Class 52 Rating, Deduct	-803.08	
		For Class 54 Rating, Add	1,106.44	
		For Class 55 Rating, Add	1,650.73	
		For Class 56 Rating, Add	2,187.71	
40 05 19 00-2220	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,484.83	627.65
		For Class 52 Rating, Deduct	-828.72	
		For Class 54 Rating, Add	1,141.49	
		For Class 55 Rating, Add	1,702.87	
		For Class 56 Rating, Add	2,256.72	
40 05 19 00-2221	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,724.90	632.27
		For Class 52 Rating, Deduct	-854.36	
		For Class 54 Rating, Add	1,176.53	
		For Class 55 Rating, Add	1,755.01	
		For Class 56 Rating, Add	2,325.73	
40 05 19 00-2222	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,964.96	636.89
		For Class 52 Rating, Deduct	-880.00	
		For Class 54 Rating, Add	1,211.58	
		For Class 55 Rating, Add	1,807.16	
		For Class 56 Rating, Add	2,394.73	
40 05 19 00-2223	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,205.02	641.50
		For Class 52 Rating, Deduct	-905.64	
		For Class 54 Rating, Add	1,246.62	
		For Class 55 Rating, Add	1,859.30	
		For Class 56 Rating, Add	2,463.74	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2224	EA		10" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,445.09	646.12
			For Class 52 Rating, Deduct	-931.27	
			For Class 54 Rating, Add	1,281.67	
			For Class 55 Rating, Add	1,911.44	
			For Class 56 Rating, Add	2,532.75	
40 05 19 00-2225	EA		10" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,685.16	650.73
			For Class 52 Rating, Deduct	-956.91	
			For Class 54 Rating, Add	1,316.71	
			For Class 55 Rating, Add	1,963.58	
			For Class 56 Rating, Add	2,601.76	
40 05 19 00-2226	EA		10" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,925.22	655.35
			For Class 52 Rating, Deduct	-982.55	
			For Class 54 Rating, Add	1,351.76	
			For Class 55 Rating, Add	2,015.73	
			For Class 56 Rating, Add	2,670.77	
40 05 19 00-2227	EA		10" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,165.29	659.96
			For Class 52 Rating, Deduct	-1,008.19	
			For Class 54 Rating, Add	1,386.80	
			For Class 55 Rating, Add	2,067.87	
			For Class 56 Rating, Add	2,739.77	
40 05 19 00-2228	EA		10" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,405.34	664.57
			For Class 52 Rating, Deduct	-1,033.83	
			For Class 54 Rating, Add	1,421.84	
			For Class 55 Rating, Add	2,120.01	
			For Class 56 Rating, Add	2,808.78	
40 05 19 00-2229	EA		10" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,645.40	669.19
			For Class 52 Rating, Deduct	-1,059.46	
			For Class 54 Rating, Add	1,456.89	
			For Class 55 Rating, Add	2,172.15	
			For Class 56 Rating, Add	2,877.79	
40 05 19 00-2230	EA		10" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,885.47	673.81
			For Class 52 Rating, Deduct	-1,085.10	
			For Class 54 Rating, Add	1,491.93	
			For Class 55 Rating, Add	2,224.30	
			For Class 56 Rating, Add	2,946.80	
40 05 19 00-2231	EA		10" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,125.53	678.42
			For Class 52 Rating, Deduct	-1,110.74	
			For Class 54 Rating, Add	1,526.98	
			For Class 55 Rating, Add	2,276.44	
			For Class 56 Rating, Add	3,015.80	
40 05 19 00-2232	EA		10" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,365.59	683.04
			For Class 52 Rating, Deduct	-1,136.38	
			For Class 54 Rating, Add	1,562.02	
			For Class 55 Rating, Add	2,328.58	
			For Class 56 Rating, Add	3,084.81	
40 05 19 00-2233	EA		10" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,605.66	687.65
			For Class 52 Rating, Deduct	-1,162.01	
			For Class 54 Rating, Add	1,597.07	
			For Class 55 Rating, Add	2,380.72	
			For Class 56 Rating, Add	3,153.82	
40 05 19 00-2234	EA		10" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,845.72	692.27
			For Class 52 Rating, Deduct	-1,187.65	
			For Class 54 Rating, Add	1,632.11	
			For Class 55 Rating, Add	2,432.87	
			For Class 56 Rating, Add	3,222.82	

40 05 19 00-2235 12" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)

40 05 19 00-2236	EA		12" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,561.64	646.12
			For Class 52 Rating, Deduct	-284.09	
			For Class 54 Rating, Add	399.15	
			For Class 55 Rating, Add	599.43	
			For Class 56 Rating, Add	797.13	
40 05 19 00-2237	EA		12" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,858.40	650.73
			For Class 52 Rating, Deduct	-315.97	
			For Class 54 Rating, Add	442.70	
			For Class 55 Rating, Add	664.22	
			For Class 56 Rating, Add	882.86	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2238	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,155.15	655.35
		For Class 52 Rating, Deduct		-347.84	
		For Class 54 Rating, Add		486.25	
		For Class 55 Rating, Add		729.00	
		For Class 56 Rating, Add		968.60	
40 05 19 00-2239	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,451.91	659.96
		For Class 52 Rating, Deduct		-379.72	
		For Class 54 Rating, Add		529.79	
		For Class 55 Rating, Add		793.79	
		For Class 56 Rating, Add		1,054.33	
40 05 19 00-2240	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,748.65	664.57
		For Class 52 Rating, Deduct		-411.59	
		For Class 54 Rating, Add		573.34	
		For Class 55 Rating, Add		858.57	
		For Class 56 Rating, Add		1,140.06	
40 05 19 00-2241	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,045.41	669.19
		For Class 52 Rating, Deduct		-443.46	
		For Class 54 Rating, Add		616.89	
		For Class 55 Rating, Add		923.36	
		For Class 56 Rating, Add		1,225.79	
40 05 19 00-2242	EA	12" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,342.17	673.81
		For Class 52 Rating, Deduct		-475.34	
		For Class 54 Rating, Add		660.44	
		For Class 55 Rating, Add		988.14	
		For Class 56 Rating, Add		1,311.52	
40 05 19 00-2243	EA	12" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,638.92	678.42
		For Class 52 Rating, Deduct		-507.21	
		For Class 54 Rating, Add		703.99	
		For Class 55 Rating, Add		1,052.93	
		For Class 56 Rating, Add		1,397.25	
40 05 19 00-2244	EA	12" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,935.68	683.04
		For Class 52 Rating, Deduct		-539.09	
		For Class 54 Rating, Add		747.54	
		For Class 55 Rating, Add		1,117.71	
		For Class 56 Rating, Add		1,482.99	
40 05 19 00-2245	EA	12" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,232.44	687.65
		For Class 52 Rating, Deduct		-570.96	
		For Class 54 Rating, Add		791.08	
		For Class 55 Rating, Add		1,182.50	
		For Class 56 Rating, Add		1,568.72	
40 05 19 00-2246	EA	12" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,529.19	692.27
		For Class 52 Rating, Deduct		-602.83	
		For Class 54 Rating, Add		834.63	
		For Class 55 Rating, Add		1,247.28	
		For Class 56 Rating, Add		1,654.45	
40 05 19 00-2247	EA	12" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,825.95	696.88
		For Class 52 Rating, Deduct		-634.71	
		For Class 54 Rating, Add		878.18	
		For Class 55 Rating, Add		1,312.07	
		For Class 56 Rating, Add		1,740.18	
40 05 19 00-2248	EA	12" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,122.71	701.49
		For Class 52 Rating, Deduct		-666.58	
		For Class 54 Rating, Add		921.73	
		For Class 55 Rating, Add		1,376.85	
		For Class 56 Rating, Add		1,825.91	
40 05 19 00-2249	EA	12" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,419.46	706.11
		For Class 52 Rating, Deduct		-698.45	
		For Class 54 Rating, Add		965.28	
		For Class 55 Rating, Add		1,441.64	
		For Class 56 Rating, Add		1,911.64	
40 05 19 00-2250	EA	12" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,716.22	710.73
		For Class 52 Rating, Deduct		-730.33	
		For Class 54 Rating, Add		1,008.83	
		For Class 55 Rating, Add		1,506.42	
		For Class 56 Rating, Add		1,997.38	
40 05 19 00-2251	EA	12" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,012.98	715.35
		For Class 52 Rating, Deduct		-762.20	
		For Class 54 Rating, Add		1,052.37	
		For Class 55 Rating, Add		1,571.21	
		For Class 56 Rating, Add		2,083.11	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2252	EA		12" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,309.73	719.96
			For Class 52 Rating, Deduct	-794.08	
			For Class 54 Rating, Add	1,095.92	
			For Class 55 Rating, Add	1,635.99	
			For Class 56 Rating, Add	2,168.84	
40 05 19 00-2253	EA		12" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,606.48	724.57
			For Class 52 Rating, Deduct	-825.95	
			For Class 54 Rating, Add	1,139.47	
			For Class 55 Rating, Add	1,700.78	
			For Class 56 Rating, Add	2,254.57	
40 05 19 00-2254	EA		12" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,903.24	729.19
			For Class 52 Rating, Deduct	-857.83	
			For Class 54 Rating, Add	1,183.02	
			For Class 55 Rating, Add	1,765.56	
			For Class 56 Rating, Add	2,340.30	
40 05 19 00-2255	EA		12" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,199.99	733.80
			For Class 52 Rating, Deduct	-889.70	
			For Class 54 Rating, Add	1,226.57	
			For Class 55 Rating, Add	1,830.35	
			For Class 56 Rating, Add	2,426.04	
40 05 19 00-2256	EA		12" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,496.75	738.41
			For Class 52 Rating, Deduct	-921.57	
			For Class 54 Rating, Add	1,270.12	
			For Class 55 Rating, Add	1,895.13	
			For Class 56 Rating, Add	2,511.77	
40 05 19 00-2257	EA		12" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,793.51	743.03
			For Class 52 Rating, Deduct	-953.45	
			For Class 54 Rating, Add	1,313.66	
			For Class 55 Rating, Add	1,959.92	
			For Class 56 Rating, Add	2,597.50	
40 05 19 00-2258	EA		12" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,090.26	747.65
			For Class 52 Rating, Deduct	-985.32	
			For Class 54 Rating, Add	1,357.21	
			For Class 55 Rating, Add	2,024.70	
			For Class 56 Rating, Add	2,683.23	
40 05 19 00-2259	EA		12" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,387.02	752.27
			For Class 52 Rating, Deduct	-1,017.20	
			For Class 54 Rating, Add	1,400.76	
			For Class 55 Rating, Add	2,089.49	
			For Class 56 Rating, Add	2,768.97	
40 05 19 00-2260	EA		12" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,680.63	756.88
			For Class 52 Rating, Deduct	-1,048.72	
			For Class 54 Rating, Add	1,443.84	
			For Class 55 Rating, Add	2,153.57	
			For Class 56 Rating, Add	2,853.77	
40 05 19 00-2261	EA		12" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,980.53	761.49
			For Class 52 Rating, Deduct	-1,080.94	
			For Class 54 Rating, Add	1,487.86	
			For Class 55 Rating, Add	2,219.06	
			For Class 56 Rating, Add	2,940.43	
40 05 19 00-2262	EA		12" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,277.29	766.11
			For Class 52 Rating, Deduct	-1,112.82	
			For Class 54 Rating, Add	1,531.41	
			For Class 55 Rating, Add	2,283.84	
			For Class 56 Rating, Add	3,026.16	
40 05 19 00-2263	EA		12" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,574.05	770.72
			For Class 52 Rating, Deduct	-1,144.69	
			For Class 54 Rating, Add	1,574.96	
			For Class 55 Rating, Add	2,348.63	
			For Class 56 Rating, Add	3,111.89	
40 05 19 00-2264	EA		12" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,870.80	775.34
			For Class 52 Rating, Deduct	-1,176.56	
			For Class 54 Rating, Add	1,618.50	
			For Class 55 Rating, Add	2,413.41	
			For Class 56 Rating, Add	3,197.62	
40 05 19 00-2265	EA		12" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,167.54	779.96
			For Class 52 Rating, Deduct	-1,208.44	
			For Class 54 Rating, Add	1,662.05	
			For Class 55 Rating, Add	2,478.20	
			For Class 56 Rating, Add	3,283.35	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2266	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,464.31	784.57
		For Class 52 Rating, Deduct	-1,240.31	
		For Class 54 Rating, Add	1,705.60	
		For Class 55 Rating, Add	2,542.98	
		For Class 56 Rating, Add	3,369.09	
40 05 19 00-2267	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,761.06	789.19
		For Class 52 Rating, Deduct	-1,272.19	
		For Class 54 Rating, Add	1,749.15	
		For Class 55 Rating, Add	2,607.77	
		For Class 56 Rating, Add	3,454.82	
40 05 19 00-2268	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,057.81	793.80
		For Class 52 Rating, Deduct	-1,304.06	
		For Class 54 Rating, Add	1,792.70	
		For Class 55 Rating, Add	2,672.55	
		For Class 56 Rating, Add	3,540.55	
40 05 19 00-2269	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,354.58	798.41
		For Class 52 Rating, Deduct	-1,335.93	
		For Class 54 Rating, Add	1,836.25	
		For Class 55 Rating, Add	2,737.34	
		For Class 56 Rating, Add	3,626.28	
40 05 19 00-2270	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,651.33	803.03
		For Class 52 Rating, Deduct	-1,367.61	
		For Class 54 Rating, Add	1,879.79	
		For Class 55 Rating, Add	2,802.12	
		For Class 56 Rating, Add	3,712.01	
40 05 19 00-2271	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,948.08	807.64
		For Class 52 Rating, Deduct	-1,399.68	
		For Class 54 Rating, Add	1,923.34	
		For Class 55 Rating, Add	2,866.91	
		For Class 56 Rating, Add	3,797.75	
40 05 19 00-2272	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,244.85	812.26
		For Class 52 Rating, Deduct	-1,431.56	
		For Class 54 Rating, Add	1,966.89	
		For Class 55 Rating, Add	2,931.69	
		For Class 56 Rating, Add	3,883.48	
40 05 19 00-2273	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,541.60	816.88
		For Class 52 Rating, Deduct	-1,463.43	
		For Class 54 Rating, Add	2,010.44	
		For Class 55 Rating, Add	2,996.48	
		For Class 56 Rating, Add	3,969.21	
40 05 19 00-2274	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,838.35	821.49
		For Class 52 Rating, Deduct	-1,495.30	
		For Class 54 Rating, Add	2,053.99	
		For Class 55 Rating, Add	3,061.26	
		For Class 56 Rating, Add	4,054.94	
40 05 19 00-2275		14" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2276	EA	14" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,768.45	775.34
		For Class 52 Rating, Deduct	-395.31	
		For Class 54 Rating, Add	553.15	
		For Class 55 Rating, Add	829.59	
		For Class 56 Rating, Add	1,102.43	
40 05 19 00-2277	EA	14" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,128.19	779.96
		For Class 52 Rating, Deduct	-434.11	
		For Class 54 Rating, Add	606.15	
		For Class 55 Rating, Add	908.42	
		For Class 56 Rating, Add	1,206.75	
40 05 19 00-2278	EA	14" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,487.94	784.57
		For Class 52 Rating, Deduct	-472.91	
		For Class 54 Rating, Add	659.14	
		For Class 55 Rating, Add	987.25	
		For Class 56 Rating, Add	1,311.06	
40 05 19 00-2279	EA	14" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,847.69	789.19
		For Class 52 Rating, Deduct	-511.72	
		For Class 54 Rating, Add	712.14	
		For Class 55 Rating, Add	1,066.08	
		For Class 56 Rating, Add	1,415.37	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2280	EA	14" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,207.43	793.80
		For Class 52 Rating, Deduct		-550.52	
		For Class 54 Rating, Add		765.14	
		For Class 55 Rating, Add		1,144.92	
		For Class 56 Rating, Add		1,519.69	
40 05 19 00-2281	EA	14" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,567.19	798.41
		For Class 52 Rating, Deduct		-589.32	
		For Class 54 Rating, Add		818.14	
		For Class 55 Rating, Add		1,223.75	
		For Class 56 Rating, Add		1,624.00	
40 05 19 00-2282	EA	14" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,926.93	803.03
		For Class 52 Rating, Deduct		-628.12	
		For Class 54 Rating, Add		871.13	
		For Class 55 Rating, Add		1,302.58	
		For Class 56 Rating, Add		1,728.32	
40 05 19 00-2283	EA	14" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,286.68	807.64
		For Class 52 Rating, Deduct		-666.93	
		For Class 54 Rating, Add		924.13	
		For Class 55 Rating, Add		1,381.41	
		For Class 56 Rating, Add		1,832.63	
40 05 19 00-2284	EA	14" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,646.44	812.26
		For Class 52 Rating, Deduct		-705.73	
		For Class 54 Rating, Add		977.13	
		For Class 55 Rating, Add		1,460.25	
		For Class 56 Rating, Add		1,936.95	
40 05 19 00-2285	EA	14" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,006.18	816.88
		For Class 52 Rating, Deduct		-744.53	
		For Class 54 Rating, Add		1,030.13	
		For Class 55 Rating, Add		1,539.08	
		For Class 56 Rating, Add		2,041.26	
40 05 19 00-2286	EA	14" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,365.93	821.49
		For Class 52 Rating, Deduct		-783.34	
		For Class 54 Rating, Add		1,083.12	
		For Class 55 Rating, Add		1,617.91	
		For Class 56 Rating, Add		2,145.58	
40 05 19 00-2287	EA	14" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,725.68	826.11
		For Class 52 Rating, Deduct		-822.14	
		For Class 54 Rating, Add		1,136.12	
		For Class 55 Rating, Add		1,696.74	
		For Class 56 Rating, Add		2,249.89	
40 05 19 00-2288	EA	14" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,085.43	830.72
		For Class 52 Rating, Deduct		-860.94	
		For Class 54 Rating, Add		1,189.12	
		For Class 55 Rating, Add		1,775.58	
		For Class 56 Rating, Add		2,354.21	
40 05 19 00-2289	EA	14" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,445.17	835.34
		For Class 52 Rating, Deduct		-899.75	
		For Class 54 Rating, Add		1,242.11	
		For Class 55 Rating, Add		1,854.41	
		For Class 56 Rating, Add		2,458.52	
40 05 19 00-2290	EA	14" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,804.92	839.95
		For Class 52 Rating, Deduct		-938.55	
		For Class 54 Rating, Add		1,295.11	
		For Class 55 Rating, Add		1,933.24	
		For Class 56 Rating, Add		2,562.84	
40 05 19 00-2291	EA	14" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,164.66	844.56
		For Class 52 Rating, Deduct		-977.35	
		For Class 54 Rating, Add		1,348.11	
		For Class 55 Rating, Add		2,012.07	
		For Class 56 Rating, Add		2,667.15	
40 05 19 00-2292	EA	14" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,524.41	849.18
		For Class 52 Rating, Deduct		-1,016.16	
		For Class 54 Rating, Add		1,401.11	
		For Class 55 Rating, Add		2,090.90	
		For Class 56 Rating, Add		2,771.46	
40 05 19 00-2293	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,884.16	853.80
		For Class 52 Rating, Deduct		-1,054.96	
		For Class 54 Rating, Add		1,454.10	
		For Class 55 Rating, Add		2,169.74	
		For Class 56 Rating, Add		2,875.78	



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2294	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,243.91	858.41
		For Class 52 Rating, Deduct		-1,093.76	
		For Class 54 Rating, Add		1,507.10	
		For Class 55 Rating, Add		2,248.57	
		For Class 56 Rating, Add		2,980.09	
40 05 19 00-2295	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,603.66	863.03
		For Class 52 Rating, Deduct		-1,132.56	
		For Class 54 Rating, Add		1,560.10	
		For Class 55 Rating, Add		2,327.40	
		For Class 56 Rating, Add		3,084.41	
40 05 19 00-2296	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,963.41	867.64
		For Class 52 Rating, Deduct		-1,171.37	
		For Class 54 Rating, Add		1,613.10	
		For Class 55 Rating, Add		2,406.23	
		For Class 56 Rating, Add		3,188.72	
40 05 19 00-2297	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,323.15	872.26
		For Class 52 Rating, Deduct		-1,210.17	
		For Class 54 Rating, Add		1,666.09	
		For Class 55 Rating, Add		2,485.06	
		For Class 56 Rating, Add		3,293.03	
40 05 19 00-2298	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,682.91	876.87
		For Class 52 Rating, Deduct		-1,248.97	
		For Class 54 Rating, Add		1,719.09	
		For Class 55 Rating, Add		2,563.90	
		For Class 56 Rating, Add		3,397.35	
40 05 19 00-2299	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,042.65	881.48
		For Class 52 Rating, Deduct		-1,287.78	
		For Class 54 Rating, Add		1,772.09	
		For Class 55 Rating, Add		2,642.73	
		For Class 56 Rating, Add		3,501.66	
40 05 19 00-2300	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,402.40	886.10
		For Class 52 Rating, Deduct		-1,326.58	
		For Class 54 Rating, Add		1,825.08	
		For Class 55 Rating, Add		2,721.56	
		For Class 56 Rating, Add		3,605.98	
40 05 19 00-2301	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,762.15	890.72
		For Class 52 Rating, Deduct		-1,365.38	
		For Class 54 Rating, Add		1,878.08	
		For Class 55 Rating, Add		2,800.39	
		For Class 56 Rating, Add		3,710.29	
40 05 19 00-2302	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,121.89	895.34
		For Class 52 Rating, Deduct		-1,404.19	
		For Class 54 Rating, Add		1,931.08	
		For Class 55 Rating, Add		2,879.23	
		For Class 56 Rating, Add		3,814.61	
40 05 19 00-2303	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,481.63	899.95
		For Class 52 Rating, Deduct		-1,442.99	
		For Class 54 Rating, Add		1,984.07	
		For Class 55 Rating, Add		2,958.06	
		For Class 56 Rating, Add		3,918.92	
40 05 19 00-2304	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,841.39	904.56
		For Class 52 Rating, Deduct		-1,481.79	
		For Class 54 Rating, Add		2,037.07	
		For Class 55 Rating, Add		3,036.89	
		For Class 56 Rating, Add		4,023.24	
40 05 19 00-2305	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,201.13	909.18
		For Class 52 Rating, Deduct		-1,520.59	
		For Class 54 Rating, Add		2,090.07	
		For Class 55 Rating, Add		3,115.72	
		For Class 56 Rating, Add		4,127.55	
40 05 19 00-2306	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,560.88	913.79
		For Class 52 Rating, Deduct		-1,559.40	
		For Class 54 Rating, Add		2,143.07	
		For Class 55 Rating, Add		3,194.55	
		For Class 56 Rating, Add		4,231.87	
40 05 19 00-2307	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,920.63	918.40
		For Class 52 Rating, Deduct		-1,598.20	
		For Class 54 Rating, Add		2,196.06	
		For Class 55 Rating, Add		3,273.39	
		For Class 56 Rating, Add		4,336.18	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2308	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,280.38	923.02
		For Class 52 Rating, Deduct	-1,637.00	
		For Class 54 Rating, Add	2,249.06	
		For Class 55 Rating, Add	3,352.22	
		For Class 56 Rating, Add	4,440.50	
40 05 19 00-2309	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,640.13	927.64
		For Class 52 Rating, Deduct	-1,675.81	
		For Class 54 Rating, Add	2,302.06	
		For Class 55 Rating, Add	3,431.05	
		For Class 56 Rating, Add	4,544.81	
40 05 19 00-2310	EA	14" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,999.88	932.26
		For Class 52 Rating, Deduct	-1,714.61	
		For Class 54 Rating, Add	2,355.06	
		For Class 55 Rating, Add	3,509.88	
		For Class 56 Rating, Add	4,649.12	
40 05 19 00-2311	EA	14" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,359.63	936.87
		For Class 52 Rating, Deduct	-1,753.41	
		For Class 54 Rating, Add	2,408.05	
		For Class 55 Rating, Add	3,588.72	
		For Class 56 Rating, Add	4,753.44	
40 05 19 00-2312	EA	14" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,719.37	941.48
		For Class 52 Rating, Deduct	-1,792.22	
		For Class 54 Rating, Add	2,461.05	
		For Class 55 Rating, Add	3,667.55	
		For Class 56 Rating, Add	4,857.75	
40 05 19 00-2313	EA	14" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,079.13	946.10
		For Class 52 Rating, Deduct	-1,831.02	
		For Class 54 Rating, Add	2,514.05	
		For Class 55 Rating, Add	3,746.38	
		For Class 56 Rating, Add	4,962.07	
40 05 19 00-2314		16" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2315	EA	16" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,594.54	886.10
		For Class 52 Rating, Deduct	-467.72	
		For Class 54 Rating, Add	653.90	
		For Class 55 Rating, Add	980.41	
		For Class 56 Rating, Add	1,302.66	
40 05 19 00-2316	EA	16" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,010.99	890.72
		For Class 52 Rating, Deduct	-512.76	
		For Class 54 Rating, Add	715.41	
		For Class 55 Rating, Add	1,071.88	
		For Class 56 Rating, Add	1,423.70	
40 05 19 00-2317	EA	16" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,427.42	895.34
		For Class 52 Rating, Deduct	-557.79	
		For Class 54 Rating, Add	776.91	
		For Class 55 Rating, Add	1,163.36	
		For Class 56 Rating, Add	1,544.74	
40 05 19 00-2318	EA	16" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,843.85	899.95
		For Class 52 Rating, Deduct	-602.83	
		For Class 54 Rating, Add	838.41	
		For Class 55 Rating, Add	1,254.83	
		For Class 56 Rating, Add	1,665.78	
40 05 19 00-2319	EA	16" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,260.30	904.56
		For Class 52 Rating, Deduct	-647.87	
		For Class 54 Rating, Add	899.91	
		For Class 55 Rating, Add	1,346.31	
		For Class 56 Rating, Add	1,786.82	
40 05 19 00-2320	EA	16" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,676.74	909.18
		For Class 52 Rating, Deduct	-692.91	
		For Class 54 Rating, Add	961.41	
		For Class 55 Rating, Add	1,437.78	
		For Class 56 Rating, Add	1,907.86	
40 05 19 00-2321	EA	16" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,093.18	913.79
		For Class 52 Rating, Deduct	-737.95	
		For Class 54 Rating, Add	1,022.91	
		For Class 55 Rating, Add	1,529.26	
		For Class 56 Rating, Add	2,028.89	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2322	EA	16" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,509.63	918.40
		For Class 52 Rating, Deduct	-782.99	
		For Class 54 Rating, Add	1,084.41	
		For Class 55 Rating, Add	1,620.73	
		For Class 56 Rating, Add	2,149.93	
40 05 19 00-2323	EA	16" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,926.06	923.02
		For Class 52 Rating, Deduct	-828.03	
		For Class 54 Rating, Add	1,145.91	
		For Class 55 Rating, Add	1,712.21	
		For Class 56 Rating, Add	2,270.97	
40 05 19 00-2324	EA	16" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,342.50	927.64
		For Class 52 Rating, Deduct	-873.07	
		For Class 54 Rating, Add	1,207.41	
		For Class 55 Rating, Add	1,803.68	
		For Class 56 Rating, Add	2,392.01	
40 05 19 00-2325	EA	16" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,758.95	932.26
		For Class 52 Rating, Deduct	-918.11	
		For Class 54 Rating, Add	1,268.92	
		For Class 55 Rating, Add	1,895.16	
		For Class 56 Rating, Add	2,513.05	
40 05 19 00-2326	EA	16" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,175.39	936.87
		For Class 52 Rating, Deduct	-963.15	
		For Class 54 Rating, Add	1,330.42	
		For Class 55 Rating, Add	1,986.63	
		For Class 56 Rating, Add	2,634.09	
40 05 19 00-2327	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,591.83	941.48
		For Class 52 Rating, Deduct	-1,008.19	
		For Class 54 Rating, Add	1,391.92	
		For Class 55 Rating, Add	2,078.11	
		For Class 56 Rating, Add	2,755.13	
40 05 19 00-2328	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,008.27	946.10
		For Class 52 Rating, Deduct	-1,053.23	
		For Class 54 Rating, Add	1,453.42	
		For Class 55 Rating, Add	2,169.58	
		For Class 56 Rating, Add	2,876.17	
40 05 19 00-2329	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,424.71	950.71
		For Class 52 Rating, Deduct	-1,098.27	
		For Class 54 Rating, Add	1,514.92	
		For Class 55 Rating, Add	2,261.05	
		For Class 56 Rating, Add	2,997.21	
40 05 19 00-2330	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,841.14	955.33
		For Class 52 Rating, Deduct	-1,143.30	
		For Class 54 Rating, Add	1,576.42	
		For Class 55 Rating, Add	2,352.53	
		For Class 56 Rating, Add	3,118.24	
40 05 19 00-2331	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,257.59	959.94
		For Class 52 Rating, Deduct	-1,188.34	
		For Class 54 Rating, Add	1,637.92	
		For Class 55 Rating, Add	2,444.01	
		For Class 56 Rating, Add	3,239.28	
40 05 19 00-2332	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,674.03	964.56
		For Class 52 Rating, Deduct	-1,233.38	
		For Class 54 Rating, Add	1,699.42	
		For Class 55 Rating, Add	2,535.48	
		For Class 56 Rating, Add	3,360.32	
40 05 19 00-2333	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,090.46	969.18
		For Class 52 Rating, Deduct	-1,278.42	
		For Class 54 Rating, Add	1,760.92	
		For Class 55 Rating, Add	2,626.95	
		For Class 56 Rating, Add	3,481.36	
40 05 19 00-2334	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,506.91	973.79
		For Class 52 Rating, Deduct	-1,323.46	
		For Class 54 Rating, Add	1,822.43	
		For Class 55 Rating, Add	2,718.43	
		For Class 56 Rating, Add	3,602.40	
40 05 19 00-2335	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,923.35	978.40
		For Class 52 Rating, Deduct	-1,368.50	
		For Class 54 Rating, Add	1,883.93	
		For Class 55 Rating, Add	2,809.90	
		For Class 56 Rating, Add	3,723.44	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2336	EA		16" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,339.79	983.02
			For Class 52 Rating, Deduct	-1,413.54	
			For Class 54 Rating, Add	1,945.43	
			For Class 55 Rating, Add	2,901.38	
			For Class 56 Rating, Add	3,844.48	
40 05 19 00-2337	EA		16" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,756.24	987.63
			For Class 52 Rating, Deduct	-1,458.58	
			For Class 54 Rating, Add	2,006.93	
			For Class 55 Rating, Add	2,992.85	
			For Class 56 Rating, Add	3,965.52	
40 05 19 00-2338	EA		16" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,172.67	992.25
			For Class 52 Rating, Deduct	-1,503.62	
			For Class 54 Rating, Add	2,068.43	
			For Class 55 Rating, Add	3,084.33	
			For Class 56 Rating, Add	4,086.55	
40 05 19 00-2339	EA		16" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,589.11	996.86
			For Class 52 Rating, Deduct	-1,548.66	
			For Class 54 Rating, Add	2,129.93	
			For Class 55 Rating, Add	3,175.80	
			For Class 56 Rating, Add	4,207.59	
40 05 19 00-2340	EA		16" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,005.56	1,001.48
			For Class 52 Rating, Deduct	-1,593.70	
			For Class 54 Rating, Add	2,191.43	
			For Class 55 Rating, Add	3,267.28	
			For Class 56 Rating, Add	4,328.63	
40 05 19 00-2341	EA		16" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,422.00	1,006.10
			For Class 52 Rating, Deduct	-1,638.74	
			For Class 54 Rating, Add	2,252.93	
			For Class 55 Rating, Add	3,358.75	
			For Class 56 Rating, Add	4,449.67	
40 05 19 00-2342	EA		16" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,838.43	1,010.71
			For Class 52 Rating, Deduct	-1,683.78	
			For Class 54 Rating, Add	2,314.44	
			For Class 55 Rating, Add	3,450.23	
			For Class 56 Rating, Add	4,570.71	
40 05 19 00-2343	EA		16" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,254.87	1,015.33
			For Class 52 Rating, Deduct	-1,728.82	
			For Class 54 Rating, Add	2,375.94	
			For Class 55 Rating, Add	3,541.70	
			For Class 56 Rating, Add	4,691.75	
40 05 19 00-2344	EA		16" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,671.31	1,019.94
			For Class 52 Rating, Deduct	-1,773.85	
			For Class 54 Rating, Add	2,437.44	
			For Class 55 Rating, Add	3,633.18	
			For Class 56 Rating, Add	4,812.79	
40 05 19 00-2345	EA		16" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,087.75	1,024.55
			For Class 52 Rating, Deduct	-1,818.89	
			For Class 54 Rating, Add	2,498.94	
			For Class 55 Rating, Add	3,724.65	
			For Class 56 Rating, Add	4,933.83	
40 05 19 00-2346	EA		16" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,504.20	1,029.17
			For Class 52 Rating, Deduct	-1,863.93	
			For Class 54 Rating, Add	2,560.44	
			For Class 55 Rating, Add	3,816.13	
			For Class 56 Rating, Add	5,054.87	
40 05 19 00-2347	EA		16" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,920.64	1,033.78
			For Class 52 Rating, Deduct	-1,908.97	
			For Class 54 Rating, Add	2,621.94	
			For Class 55 Rating, Add	3,907.60	
			For Class 56 Rating, Add	5,175.91	
40 05 19 00-2348	EA		16" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,337.07	1,038.40
			For Class 52 Rating, Deduct	-1,954.01	
			For Class 54 Rating, Add	2,683.44	
			For Class 55 Rating, Add	3,999.07	
			For Class 56 Rating, Add	5,296.94	
40 05 19 00-2349	EA		16" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,753.52	1,043.02
			For Class 52 Rating, Deduct	-1,999.05	
			For Class 54 Rating, Add	2,744.94	
			For Class 55 Rating, Add	4,090.55	
			For Class 56 Rating, Add	5,417.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2350	EA	16"	Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	20,169.96 -2,044.09 2,806.44 4,182.02 5,539.02	1,047.63
40 05 19 00-2351	EA	16"	Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	20,586.40 -2,089.13 2,867.95 4,273.50 5,660.06	1,052.25
40 05 19 00-2352	EA	16"	Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	21,002.85 -2,134.17 2,929.45 4,364.97 5,781.10	1,056.86
40 05 19 00-2353 18" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)					
40 05 19 00-2354	EA	18"	Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	6,521.06 -550.86 769.34 1,153.07 1,531.79	998.71
40 05 19 00-2355	EA	18"	Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,000.49 -602.83 840.29 1,258.59 1,671.42	1,003.33
40 05 19 00-2356	EA	18"	Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,479.93 -654.80 911.24 1,364.11 1,811.04	1,007.94
40 05 19 00-2357	EA	18"	Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	7,959.36 -706.77 982.19 1,469.64 1,950.66	1,012.55
40 05 19 00-2358	EA	18"	Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	8,438.79 -758.74 1,053.14 1,575.16 2,090.28	1,017.17
40 05 19 00-2359	EA	18"	Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	8,918.22 -810.71 1,124.09 1,680.68 2,229.90	1,021.78
40 05 19 00-2360	EA	18"	Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	9,397.65 -862.68 1,195.04 1,786.20 2,369.52	1,026.40
40 05 19 00-2361	EA	18"	Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	9,877.08 -914.64 1,265.99 1,891.72 2,509.14	1,031.02
40 05 19 00-2362	EA	18"	Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	10,356.52 -966.61 1,336.94 1,997.25 2,648.77	1,035.63
40 05 19 00-2363	EA	18"	Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	10,835.95 -1,018.58 1,407.89 2,102.77 2,788.39	1,040.25

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2364	EA		18" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,315.38	1,044.86
			For Class 52 Rating, Deduct	-1,070.55	
			For Class 54 Rating, Add	1,478.84	
			For Class 55 Rating, Add	2,208.29	
			For Class 56 Rating, Add	2,928.01	
40 05 19 00-2365	EA		18" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,794.82	1,049.48
			For Class 52 Rating, Deduct	-1,122.52	
			For Class 54 Rating, Add	1,549.79	
			For Class 55 Rating, Add	2,313.81	
			For Class 56 Rating, Add	3,067.63	
40 05 19 00-2366	EA		18" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,274.25	1,054.09
			For Class 52 Rating, Deduct	-1,174.49	
			For Class 54 Rating, Add	1,620.74	
			For Class 55 Rating, Add	2,419.33	
			For Class 56 Rating, Add	3,207.25	
40 05 19 00-2367	EA		18" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,753.68	1,058.70
			For Class 52 Rating, Deduct	-1,226.45	
			For Class 54 Rating, Add	1,691.69	
			For Class 55 Rating, Add	2,524.85	
			For Class 56 Rating, Add	3,346.87	
40 05 19 00-2368	EA		18" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,233.12	1,063.33
			For Class 52 Rating, Deduct	-1,278.42	
			For Class 54 Rating, Add	1,762.64	
			For Class 55 Rating, Add	2,630.38	
			For Class 56 Rating, Add	3,486.50	
40 05 19 00-2369	EA		18" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,712.55	1,067.94
			For Class 52 Rating, Deduct	-1,330.39	
			For Class 54 Rating, Add	1,833.59	
			For Class 55 Rating, Add	2,735.90	
			For Class 56 Rating, Add	3,626.12	
40 05 19 00-2370	EA		18" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,191.98	1,072.55
			For Class 52 Rating, Deduct	-1,382.36	
			For Class 54 Rating, Add	1,904.54	
			For Class 55 Rating, Add	2,841.42	
			For Class 56 Rating, Add	3,765.74	
40 05 19 00-2371	EA		18" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,671.42	1,077.17
			For Class 52 Rating, Deduct	-1,434.33	
			For Class 54 Rating, Add	1,975.49	
			For Class 55 Rating, Add	2,946.94	
			For Class 56 Rating, Add	3,905.36	
40 05 19 00-2372	EA		18" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,150.84	1,081.78
			For Class 52 Rating, Deduct	-1,486.30	
			For Class 54 Rating, Add	2,046.44	
			For Class 55 Rating, Add	3,052.46	
			For Class 56 Rating, Add	4,044.98	
40 05 19 00-2373	EA		18" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,630.27	1,086.40
			For Class 52 Rating, Deduct	-1,538.26	
			For Class 54 Rating, Add	2,117.39	
			For Class 55 Rating, Add	3,157.99	
			For Class 56 Rating, Add	4,184.60	
40 05 19 00-2374	EA		18" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,109.71	1,091.01
			For Class 52 Rating, Deduct	-1,590.23	
			For Class 54 Rating, Add	2,188.34	
			For Class 55 Rating, Add	3,263.51	
			For Class 56 Rating, Add	4,324.22	
40 05 19 00-2375	EA		18" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,589.14	1,095.62
			For Class 52 Rating, Deduct	-1,642.20	
			For Class 54 Rating, Add	2,259.29	
			For Class 55 Rating, Add	3,369.03	
			For Class 56 Rating, Add	4,463.85	
40 05 19 00-2376	EA		18" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,068.57	1,100.25
			For Class 52 Rating, Deduct	-1,694.17	
			For Class 54 Rating, Add	2,330.24	
			For Class 55 Rating, Add	3,474.55	
			For Class 56 Rating, Add	4,603.47	
40 05 19 00-2377	EA		18" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,548.01	1,104.86
			For Class 52 Rating, Deduct	-1,746.14	
			For Class 54 Rating, Add	2,401.19	
			For Class 55 Rating, Add	3,580.07	
			For Class 56 Rating, Add	4,743.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2378	EA	18" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,027.44	1,109.48
		For Class 52 Rating, Deduct		-1,798.11	
		For Class 54 Rating, Add		2,472.14	
		For Class 55 Rating, Add		3,685.60	
		For Class 56 Rating, Add		4,882.71	
40 05 19 00-2379	EA	18" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,506.87	1,114.09
		For Class 52 Rating, Deduct		-1,850.07	
		For Class 54 Rating, Add		2,543.09	
		For Class 55 Rating, Add		3,791.12	
		For Class 56 Rating, Add		5,022.33	
40 05 19 00-2380	EA	18" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,986.31	1,118.70
		For Class 52 Rating, Deduct		-1,902.04	
		For Class 54 Rating, Add		2,614.04	
		For Class 55 Rating, Add		3,896.64	
		For Class 56 Rating, Add		5,161.95	
40 05 19 00-2381	EA	18" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,465.74	1,123.32
		For Class 52 Rating, Deduct		-1,954.01	
		For Class 54 Rating, Add		2,684.99	
		For Class 55 Rating, Add		4,002.16	
		For Class 56 Rating, Add		5,301.58	
40 05 19 00-2382	EA	18" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,945.17	1,127.93
		For Class 52 Rating, Deduct		-2,005.98	
		For Class 54 Rating, Add		2,755.93	
		For Class 55 Rating, Add		4,107.68	
		For Class 56 Rating, Add		5,441.20	
40 05 19 00-2383	EA	18" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,424.61	1,132.54
		For Class 52 Rating, Deduct		-2,057.95	
		For Class 54 Rating, Add		2,826.88	
		For Class 55 Rating, Add		4,213.21	
		For Class 56 Rating, Add		5,580.82	
40 05 19 00-2384	EA	18" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,904.03	1,137.17
		For Class 52 Rating, Deduct		-2,109.92	
		For Class 54 Rating, Add		2,897.83	
		For Class 55 Rating, Add		4,318.73	
		For Class 56 Rating, Add		5,720.44	
40 05 19 00-2385	EA	18" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,383.46	1,141.78
		For Class 52 Rating, Deduct		-2,161.89	
		For Class 54 Rating, Add		2,968.78	
		For Class 55 Rating, Add		4,424.25	
		For Class 56 Rating, Add		5,860.06	
40 05 19 00-2386	EA	18" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,862.90	1,146.40
		For Class 52 Rating, Deduct		-2,213.85	
		For Class 54 Rating, Add		3,039.73	
		For Class 55 Rating, Add		4,529.77	
		For Class 56 Rating, Add		5,999.68	
40 05 19 00-2387	EA	18" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,342.33	1,151.01
		For Class 52 Rating, Deduct		-2,265.82	
		For Class 54 Rating, Add		3,110.68	
		For Class 55 Rating, Add		4,635.29	
		For Class 56 Rating, Add		6,139.30	
40 05 19 00-2388	EA	18" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,821.76	1,155.62
		For Class 52 Rating, Deduct		-2,317.79	
		For Class 54 Rating, Add		3,181.63	
		For Class 55 Rating, Add		4,740.82	
		For Class 56 Rating, Add		6,278.93	
40 05 19 00-2389	EA	18" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,301.20	1,160.24
		For Class 52 Rating, Deduct		-2,369.76	
		For Class 54 Rating, Add		3,252.58	
		For Class 55 Rating, Add		4,846.34	
		For Class 56 Rating, Add		6,418.55	
40 05 19 00-2390	EA	18" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,780.63	1,164.85
		For Class 52 Rating, Deduct		-2,421.73	
		For Class 54 Rating, Add		3,323.53	
		For Class 55 Rating, Add		4,951.86	
		For Class 56 Rating, Add		6,558.17	
40 05 19 00-2391	EA	18" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		24,260.06	1,169.47
		For Class 52 Rating, Deduct		-2,473.70	
		For Class 54 Rating, Add		3,394.48	
		For Class 55 Rating, Add		5,057.38	
		For Class 56 Rating, Add		6,697.79	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2392			20" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2393	EA		20" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,632.67	1,139.93
			For Class 52 Rating, Deduct	-649.61	
			For Class 54 Rating, Add	906.55	
			For Class 55 Rating, Add	1,358.38	
			For Class 56 Rating, Add	1,804.30	
40 05 19 00-2394	EA		20" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,178.24	1,144.55
			For Class 52 Rating, Deduct	-708.85	
			For Class 54 Rating, Add	987.42	
			For Class 55 Rating, Add	1,478.65	
			For Class 56 Rating, Add	1,963.43	
40 05 19 00-2395	EA		20" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,723.82	1,149.17
			For Class 52 Rating, Deduct	-768.09	
			For Class 54 Rating, Add	1,068.29	
			For Class 55 Rating, Add	1,598.92	
			For Class 56 Rating, Add	2,122.57	
40 05 19 00-2396	EA		20" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,269.39	1,153.78
			For Class 52 Rating, Deduct	-827.34	
			For Class 54 Rating, Add	1,149.16	
			For Class 55 Rating, Add	1,719.19	
			For Class 56 Rating, Add	2,281.70	
40 05 19 00-2397	EA		20" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,814.97	1,158.39
			For Class 52 Rating, Deduct	-886.58	
			For Class 54 Rating, Add	1,230.04	
			For Class 55 Rating, Add	1,839.47	
			For Class 56 Rating, Add	2,440.83	
40 05 19 00-2398	EA		20" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,360.55	1,163.01
			For Class 52 Rating, Deduct	-945.83	
			For Class 54 Rating, Add	1,310.91	
			For Class 55 Rating, Add	1,959.74	
			For Class 56 Rating, Add	2,599.97	
40 05 19 00-2399	EA		20" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,906.12	1,167.62
			For Class 52 Rating, Deduct	-1,005.07	
			For Class 54 Rating, Add	1,391.78	
			For Class 55 Rating, Add	2,080.01	
			For Class 56 Rating, Add	2,759.10	
40 05 19 00-2400	EA		20" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,451.69	1,172.24
			For Class 52 Rating, Deduct	-1,064.31	
			For Class 54 Rating, Add	1,472.65	
			For Class 55 Rating, Add	2,200.28	
			For Class 56 Rating, Add	2,918.23	
40 05 19 00-2401	EA		20" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,997.27	1,176.85
			For Class 52 Rating, Deduct	-1,123.56	
			For Class 54 Rating, Add	1,553.52	
			For Class 55 Rating, Add	2,320.55	
			For Class 56 Rating, Add	3,077.37	
40 05 19 00-2402	EA		20" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,542.84	1,181.47
			For Class 52 Rating, Deduct	-1,182.80	
			For Class 54 Rating, Add	1,634.39	
			For Class 55 Rating, Add	2,440.82	
			For Class 56 Rating, Add	3,236.50	
40 05 19 00-2403	EA		20" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,088.41	1,186.09
			For Class 52 Rating, Deduct	-1,242.05	
			For Class 54 Rating, Add	1,715.26	
			For Class 55 Rating, Add	2,561.09	
			For Class 56 Rating, Add	3,395.63	
40 05 19 00-2404	EA		20" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,633.99	1,190.70
			For Class 52 Rating, Deduct	-1,301.29	
			For Class 54 Rating, Add	1,796.13	
			For Class 55 Rating, Add	2,681.37	
			For Class 56 Rating, Add	3,554.77	
40 05 19 00-2405	EA		20" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,179.56	1,195.31
			For Class 52 Rating, Deduct	-1,360.53	
			For Class 54 Rating, Add	1,877.00	
			For Class 55 Rating, Add	2,801.64	
			For Class 56 Rating, Add	3,713.90	
40 05 19 00-2406	EA		20" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,725.13	1,199.93
			For Class 52 Rating, Deduct	-1,419.78	
			For Class 54 Rating, Add	1,957.88	
			For Class 55 Rating, Add	2,921.91	
			For Class 56 Rating, Add	3,873.03	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2407	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,270.71	1,204.54
		For Class 52 Rating, Deduct		-1,479.02	
		For Class 54 Rating, Add		2,038.75	
		For Class 55 Rating, Add		3,042.18	
		For Class 56 Rating, Add		4,032.17	
40 05 19 00-2408	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,816.28	1,209.16
		For Class 52 Rating, Deduct		-1,538.26	
		For Class 54 Rating, Add		2,119.62	
		For Class 55 Rating, Add		3,162.45	
		For Class 56 Rating, Add		4,191.30	
40 05 19 00-2409	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,361.86	1,213.77
		For Class 52 Rating, Deduct		-1,597.51	
		For Class 54 Rating, Add		2,200.49	
		For Class 55 Rating, Add		3,282.72	
		For Class 56 Rating, Add		4,350.43	
40 05 19 00-2410	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,907.44	1,218.39
		For Class 52 Rating, Deduct		-1,656.75	
		For Class 54 Rating, Add		2,281.36	
		For Class 55 Rating, Add		3,403.00	
		For Class 56 Rating, Add		4,509.57	
40 05 19 00-2411	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,453.01	1,223.01
		For Class 52 Rating, Deduct		-1,716.00	
		For Class 54 Rating, Add		2,362.23	
		For Class 55 Rating, Add		3,523.27	
		For Class 56 Rating, Add		4,668.70	
40 05 19 00-2412	EA	20" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,998.58	1,227.62
		For Class 52 Rating, Deduct		-1,775.24	
		For Class 54 Rating, Add		2,443.10	
		For Class 55 Rating, Add		3,643.54	
		For Class 56 Rating, Add		4,827.83	
40 05 19 00-2413	EA	20" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		18,544.16	1,232.24
		For Class 52 Rating, Deduct		-1,834.48	
		For Class 54 Rating, Add		2,523.97	
		For Class 55 Rating, Add		3,763.81	
		For Class 56 Rating, Add		4,986.97	
40 05 19 00-2414	EA	20" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,089.73	1,236.85
		For Class 52 Rating, Deduct		-1,893.73	
		For Class 54 Rating, Add		2,604.84	
		For Class 55 Rating, Add		3,884.08	
		For Class 56 Rating, Add		5,146.10	
40 05 19 00-2415	EA	20" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,635.30	1,241.46
		For Class 52 Rating, Deduct		-1,952.97	
		For Class 54 Rating, Add		2,685.72	
		For Class 55 Rating, Add		4,004.35	
		For Class 56 Rating, Add		5,305.23	
40 05 19 00-2416	EA	20" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,180.88	1,246.08
		For Class 52 Rating, Deduct		-2,012.22	
		For Class 54 Rating, Add		2,766.59	
		For Class 55 Rating, Add		4,124.62	
		For Class 56 Rating, Add		5,464.37	
40 05 19 00-2417	EA	20" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,726.45	1,250.69
		For Class 52 Rating, Deduct		-2,071.46	
		For Class 54 Rating, Add		2,847.46	
		For Class 55 Rating, Add		4,244.90	
		For Class 56 Rating, Add		5,623.50	
40 05 19 00-2418	EA	20" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,272.02	1,255.31
		For Class 52 Rating, Deduct		-2,130.70	
		For Class 54 Rating, Add		2,928.33	
		For Class 55 Rating, Add		4,365.17	
		For Class 56 Rating, Add		5,782.63	
40 05 19 00-2419	EA	20" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,817.60	1,259.93
		For Class 52 Rating, Deduct		-2,189.95	
		For Class 54 Rating, Add		3,009.20	
		For Class 55 Rating, Add		4,485.44	
		For Class 56 Rating, Add		5,941.77	
40 05 19 00-2420	EA	20" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,363.17	1,264.54
		For Class 52 Rating, Deduct		-2,249.19	
		For Class 54 Rating, Add		3,090.07	
		For Class 55 Rating, Add		4,605.71	
		For Class 56 Rating, Add		6,100.90	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2421	EA	20" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,908.74	1,269.16
		For Class 52 Rating, Deduct	-2,308.44	
		For Class 54 Rating, Add	3,170.94	
		For Class 55 Rating, Add	4,725.98	
		For Class 56 Rating, Add	6,260.03	
40 05 19 00-2422	EA	20" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,454.33	1,273.77
		For Class 52 Rating, Deduct	-2,367.68	
		For Class 54 Rating, Add	3,251.82	
		For Class 55 Rating, Add	4,846.25	
		For Class 56 Rating, Add	6,419.17	
40 05 19 00-2423	EA	20" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,999.90	1,278.38
		For Class 52 Rating, Deduct	-2,426.92	
		For Class 54 Rating, Add	3,332.69	
		For Class 55 Rating, Add	4,966.52	
		For Class 56 Rating, Add	6,578.30	
40 05 19 00-2424	EA	20" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,545.47	1,283.00
		For Class 52 Rating, Deduct	-2,486.17	
		For Class 54 Rating, Add	3,413.56	
		For Class 55 Rating, Add	5,086.80	
		For Class 56 Rating, Add	6,737.43	
40 05 19 00-2425	EA	20" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,091.05	1,287.61
		For Class 52 Rating, Deduct	-2,545.41	
		For Class 54 Rating, Add	3,494.43	
		For Class 55 Rating, Add	5,207.07	
		For Class 56 Rating, Add	6,896.57	
40 05 19 00-2426	EA	20" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,636.62	1,292.24
		For Class 52 Rating, Deduct	-2,604.66	
		For Class 54 Rating, Add	3,575.30	
		For Class 55 Rating, Add	5,327.34	
		For Class 56 Rating, Add	7,055.70	
40 05 19 00-2427	EA	20" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,182.19	1,296.85
		For Class 52 Rating, Deduct	-2,663.90	
		For Class 54 Rating, Add	3,656.17	
		For Class 55 Rating, Add	5,447.61	
		For Class 56 Rating, Add	7,214.83	
40 05 19 00-2428	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,727.77	1,301.46
		For Class 52 Rating, Deduct	-2,723.14	
		For Class 54 Rating, Add	3,737.04	
		For Class 55 Rating, Add	5,567.88	
		For Class 56 Rating, Add	7,373.97	
40 05 19 00-2429	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,273.34	1,306.08
		For Class 52 Rating, Deduct	-2,782.39	
		For Class 54 Rating, Add	3,817.91	
		For Class 55 Rating, Add	5,688.15	
		For Class 56 Rating, Add	7,533.10	
40 05 19 00-2430	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,818.91	1,310.69
		For Class 52 Rating, Deduct	-2,841.63	
		For Class 54 Rating, Add	3,898.78	
		For Class 55 Rating, Add	5,808.42	
		For Class 56 Rating, Add	7,692.23	
40 05 19 00-2431		24" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		
		(40 05 19 00-2074)		
40 05 19 00-2432	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,411.90	1,347.61
		For Class 52 Rating, Deduct	-810.71	
		For Class 54 Rating, Add	1,130.01	
		For Class 55 Rating, Add	1,692.53	
		For Class 56 Rating, Add	2,247.67	
40 05 19 00-2433	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,086.62	1,352.23
		For Class 52 Rating, Deduct	-884.16	
		For Class 54 Rating, Add	1,230.25	
		For Class 55 Rating, Add	1,841.60	
		For Class 56 Rating, Add	2,444.90	
40 05 19 00-2434	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,761.31	1,356.84
		For Class 52 Rating, Deduct	-957.60	
		For Class 54 Rating, Add	1,330.49	
		For Class 55 Rating, Add	1,990.66	
		For Class 56 Rating, Add	2,642.13	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2435	EA	24"	Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,436.02	1,361.46
			For Class 52 Rating, Deduct	-1,031.05	
			For Class 54 Rating, Add	1,430.74	
			For Class 55 Rating, Add	2,139.73	
			For Class 56 Rating, Add	2,839.36	
40 05 19 00-2436	EA	24"	Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,110.73	1,366.08
			For Class 52 Rating, Deduct	-1,104.50	
			For Class 54 Rating, Add	1,530.98	
			For Class 55 Rating, Add	2,288.80	
			For Class 56 Rating, Add	3,036.58	
40 05 19 00-2437	EA	24"	Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,785.44	1,370.69
			For Class 52 Rating, Deduct	-1,177.95	
			For Class 54 Rating, Add	1,631.22	
			For Class 55 Rating, Add	2,437.87	
			For Class 56 Rating, Add	3,233.81	
40 05 19 00-2438	EA	24"	Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,460.15	1,375.30
			For Class 52 Rating, Deduct	-1,251.40	
			For Class 54 Rating, Add	1,731.46	
			For Class 55 Rating, Add	2,586.94	
			For Class 56 Rating, Add	3,431.04	
40 05 19 00-2439	EA	24"	Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,134.86	1,379.92
			For Class 52 Rating, Deduct	-1,324.65	
			For Class 54 Rating, Add	1,831.70	
			For Class 55 Rating, Add	2,736.01	
			For Class 56 Rating, Add	3,628.27	
40 05 19 00-2440	EA	24"	Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,809.57	1,384.53
			For Class 52 Rating, Deduct	-1,398.30	
			For Class 54 Rating, Add	1,931.94	
			For Class 55 Rating, Add	2,885.08	
			For Class 56 Rating, Add	3,825.50	
40 05 19 00-2441	EA	24"	Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,484.27	1,389.15
			For Class 52 Rating, Deduct	-1,471.75	
			For Class 54 Rating, Add	2,032.18	
			For Class 55 Rating, Add	3,034.14	
			For Class 56 Rating, Add	4,022.72	
40 05 19 00-2442	EA	24"	Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,158.99	1,393.76
			For Class 52 Rating, Deduct	-1,545.19	
			For Class 54 Rating, Add	2,132.42	
			For Class 55 Rating, Add	3,183.21	
			For Class 56 Rating, Add	4,219.95	
40 05 19 00-2443	EA	24"	Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,833.69	1,398.38
			For Class 52 Rating, Deduct	-1,618.64	
			For Class 54 Rating, Add	2,232.66	
			For Class 55 Rating, Add	3,332.28	
			For Class 56 Rating, Add	4,417.18	
40 05 19 00-2444	EA	24"	Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,508.40	1,403.00
			For Class 52 Rating, Deduct	-1,692.09	
			For Class 54 Rating, Add	2,332.91	
			For Class 55 Rating, Add	3,481.35	
			For Class 56 Rating, Add	4,614.41	
40 05 19 00-2445	EA	24"	Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,183.11	1,407.61
			For Class 52 Rating, Deduct	-1,765.54	
			For Class 54 Rating, Add	2,433.15	
			For Class 55 Rating, Add	3,630.42	
			For Class 56 Rating, Add	4,811.64	
40 05 19 00-2446	EA	24"	Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,857.82	1,412.23
			For Class 52 Rating, Deduct	-1,838.99	
			For Class 54 Rating, Add	2,533.39	
			For Class 55 Rating, Add	3,779.49	
			For Class 56 Rating, Add	5,008.86	
40 05 19 00-2447	EA	24"	Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,532.51	1,416.84
			For Class 52 Rating, Deduct	-1,912.44	
			For Class 54 Rating, Add	2,633.63	
			For Class 55 Rating, Add	3,928.55	
			For Class 56 Rating, Add	5,206.09	
40 05 19 00-2448	EA	24"	Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,207.23	1,421.45
			For Class 52 Rating, Deduct	-1,985.89	
			For Class 54 Rating, Add	2,733.87	
			For Class 55 Rating, Add	4,077.62	
			For Class 56 Rating, Add	5,403.32	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2449	EA	24" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,881.93	1,426.07
		For Class 52 Rating, Deduct	-2,059.33	
		For Class 54 Rating, Add	2,834.11	
		For Class 55 Rating, Add	4,226.69	
		For Class 56 Rating, Add	5,600.55	
40 05 19 00-2450	EA	24" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,556.64	1,430.68
		For Class 52 Rating, Deduct	-2,132.78	
		For Class 54 Rating, Add	2,934.35	
		For Class 55 Rating, Add	4,375.76	
		For Class 56 Rating, Add	5,797.77	
40 05 19 00-2451	EA	24" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,231.35	1,435.30
		For Class 52 Rating, Deduct	-2,206.23	
		For Class 54 Rating, Add	3,034.59	
		For Class 55 Rating, Add	4,524.83	
		For Class 56 Rating, Add	5,995.00	
40 05 19 00-2452	EA	24" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,906.06	1,439.92
		For Class 52 Rating, Deduct	-2,279.68	
		For Class 54 Rating, Add	3,134.84	
		For Class 55 Rating, Add	4,673.90	
		For Class 56 Rating, Add	6,192.23	
40 05 19 00-2453	EA	24" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,580.76	1,444.53
		For Class 52 Rating, Deduct	-2,353.13	
		For Class 54 Rating, Add	3,235.08	
		For Class 55 Rating, Add	4,822.96	
		For Class 56 Rating, Add	6,389.46	
40 05 19 00-2454	EA	24" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,255.48	1,449.15
		For Class 52 Rating, Deduct	-2,426.58	
		For Class 54 Rating, Add	3,335.32	
		For Class 55 Rating, Add	4,972.03	
		For Class 56 Rating, Add	6,586.69	
40 05 19 00-2455	EA	24" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,930.18	1,453.76
		For Class 52 Rating, Deduct	-2,500.03	
		For Class 54 Rating, Add	3,435.56	
		For Class 55 Rating, Add	5,121.10	
		For Class 56 Rating, Add	6,783.91	
40 05 19 00-2456	EA	24" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,604.89	1,458.37
		For Class 52 Rating, Deduct	-2,573.48	
		For Class 54 Rating, Add	3,535.80	
		For Class 55 Rating, Add	5,270.17	
		For Class 56 Rating, Add	6,981.14	
40 05 19 00-2457	EA	24" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,279.60	1,462.99
		For Class 52 Rating, Deduct	-2,646.92	
		For Class 54 Rating, Add	3,636.04	
		For Class 55 Rating, Add	5,419.24	
		For Class 56 Rating, Add	7,178.37	
40 05 19 00-2458	EA	24" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,954.31	1,467.60
		For Class 52 Rating, Deduct	-2,720.37	
		For Class 54 Rating, Add	3,736.28	
		For Class 55 Rating, Add	5,568.30	
		For Class 56 Rating, Add	7,375.60	
40 05 19 00-2459	EA	24" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,629.00	1,472.23
		For Class 52 Rating, Deduct	-2,793.82	
		For Class 54 Rating, Add	3,836.52	
		For Class 55 Rating, Add	5,717.37	
		For Class 56 Rating, Add	7,572.82	
40 05 19 00-2460	EA	24" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,303.72	1,476.84
		For Class 52 Rating, Deduct	-2,867.27	
		For Class 54 Rating, Add	3,936.77	
		For Class 55 Rating, Add	5,866.44	
		For Class 56 Rating, Add	7,770.05	
40 05 19 00-2461	EA	24" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,097.30	1,559.91
		For Class 52 Rating, Deduct	-2,940.72	
		For Class 54 Rating, Add	4,038.43	
		For Class 55 Rating, Add	6,018.36	
		For Class 56 Rating, Add	7,971.56	
40 05 19 00-2462	EA	24" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,772.01	1,564.52
		For Class 52 Rating, Deduct	-3,014.17	
		For Class 54 Rating, Add	4,138.67	
		For Class 55 Rating, Add	6,167.43	
		For Class 56 Rating, Add	8,168.79	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2463	EA	24"	Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	30,446.72 -3,087.62 4,238.92 6,316.50 8,366.02	1,569.14
40 05 19 00-2464	EA	24"	Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	31,121.43 -3,161.06 4,339.16 6,465.57 8,563.24	1,573.75
40 05 19 00-2465	EA	24"	Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	31,796.14 -3,234.51 4,439.40 6,614.64 8,760.47	1,578.37
40 05 19 00-2466	EA	24"	Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	32,470.84 -3,307.96 4,539.64 6,763.70 8,957.70	1,582.99
40 05 19 00-2467	EA	24"	Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	33,145.55 -3,381.41 4,639.88 6,912.77 9,154.93	1,587.60
40 05 19 00-2468	EA	24"	Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	33,820.25 -3,454.66 4,740.12 7,061.84 9,352.15	1,592.22
40 05 19 00-2469	EA	24"	Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	34,494.97 -3,528.31 4,840.36 7,210.91 9,549.38	1,596.83
40 05 19 00-2470			30" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2471	EA	30"	Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	14,547.07 -1,283.27 1,784.49 2,670.69 3,545.22	1,901.42
40 05 19 00-2472	EA	30"	Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	15,511.54 -1,388.60 1,928.20 2,884.37 3,827.93	1,906.05
40 05 19 00-2473	EA	30"	Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	16,476.02 -1,493.92 2,071.90 3,098.06 4,110.64	1,910.66
40 05 19 00-2474	EA	30"	Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	17,440.48 -1,599.24 2,215.61 3,311.74 4,393.34	1,915.27
40 05 19 00-2475	EA	30"	Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	18,404.95 -1,704.56 2,359.31 3,525.43 4,676.05	1,919.89
40 05 19 00-2476	EA	30"	Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	19,369.43 -1,809.89 2,503.02 3,739.11 4,958.76	1,924.50

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2477	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,333.90	1,929.12
		For Class 52 Rating, Deduct		-1,915.21	
		For Class 54 Rating, Add		2,646.72	
		For Class 55 Rating, Add		3,952.80	
		For Class 56 Rating, Add		5,241.47	
40 05 19 00-2478	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,298.36	1,933.73
		For Class 52 Rating, Deduct		-2,020.53	
		For Class 54 Rating, Add		2,790.43	
		For Class 55 Rating, Add		4,166.49	
		For Class 56 Rating, Add		5,524.17	
40 05 19 00-2479	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,262.84	1,938.34
		For Class 52 Rating, Deduct		-2,125.85	
		For Class 54 Rating, Add		2,934.14	
		For Class 55 Rating, Add		4,380.17	
		For Class 56 Rating, Add		5,806.88	
40 05 19 00-2480	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,227.30	1,942.97
		For Class 52 Rating, Deduct		-2,231.18	
		For Class 54 Rating, Add		3,077.84	
		For Class 55 Rating, Add		4,593.86	
		For Class 56 Rating, Add		6,089.59	
40 05 19 00-2481	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		24,191.77	1,947.58
		For Class 52 Rating, Deduct		-2,336.50	
		For Class 54 Rating, Add		3,221.55	
		For Class 55 Rating, Add		4,807.54	
		For Class 56 Rating, Add		6,372.30	
40 05 19 00-2482	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		25,156.25	1,952.19
		For Class 52 Rating, Deduct		-2,441.82	
		For Class 54 Rating, Add		3,365.25	
		For Class 55 Rating, Add		5,021.23	
		For Class 56 Rating, Add		6,655.01	
40 05 19 00-2483	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		26,120.72	1,956.81
		For Class 52 Rating, Deduct		-2,547.14	
		For Class 54 Rating, Add		3,508.96	
		For Class 55 Rating, Add		5,234.91	
		For Class 56 Rating, Add		6,937.71	
40 05 19 00-2484	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		27,085.19	1,961.42
		For Class 52 Rating, Deduct		-2,652.47	
		For Class 54 Rating, Add		3,652.66	
		For Class 55 Rating, Add		5,448.60	
		For Class 56 Rating, Add		7,220.42	
40 05 19 00-2485	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		28,049.67	1,966.04
		For Class 52 Rating, Deduct		-2,757.79	
		For Class 54 Rating, Add		3,796.37	
		For Class 55 Rating, Add		5,662.29	
		For Class 56 Rating, Add		7,503.13	
40 05 19 00-2486	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		29,014.13	1,970.65
		For Class 52 Rating, Deduct		-2,863.11	
		For Class 54 Rating, Add		3,940.07	
		For Class 55 Rating, Add		5,875.97	
		For Class 56 Rating, Add		7,785.84	
40 05 19 00-2487	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		29,978.60	1,975.26
		For Class 52 Rating, Deduct		-2,968.43	
		For Class 54 Rating, Add		4,083.78	
		For Class 55 Rating, Add		6,089.65	
		For Class 56 Rating, Add		8,068.54	
40 05 19 00-2488	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		30,943.08	1,979.89
		For Class 52 Rating, Deduct		-3,073.76	
		For Class 54 Rating, Add		4,227.49	
		For Class 55 Rating, Add		6,303.34	
		For Class 56 Rating, Add		8,351.25	
40 05 19 00-2489	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		31,907.55	1,984.50
		For Class 52 Rating, Deduct		-3,179.08	
		For Class 54 Rating, Add		4,371.19	
		For Class 55 Rating, Add		6,517.03	
		For Class 56 Rating, Add		8,633.96	
40 05 19 00-2490	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		32,872.02	1,989.12
		For Class 52 Rating, Deduct		-3,284.40	
		For Class 54 Rating, Add		4,514.90	
		For Class 55 Rating, Add		6,730.71	
		For Class 56 Rating, Add		8,916.67	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2491	EA	30" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,836.49	1,993.73
		For Class 52 Rating, Deduct	-3,389.73	
		For Class 54 Rating, Add	4,658.60	
		For Class 55 Rating, Add	6,944.40	
		For Class 56 Rating, Add	9,199.38	
40 05 19 00-2492	EA	30" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,800.95	1,998.34
		For Class 52 Rating, Deduct	-3,495.05	
		For Class 54 Rating, Add	4,802.31	
		For Class 55 Rating, Add	7,158.08	
		For Class 56 Rating, Add	9,482.08	
40 05 19 00-2493	EA	30" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,765.42	2,002.96
		For Class 52 Rating, Deduct	-3,600.37	
		For Class 54 Rating, Add	4,946.01	
		For Class 55 Rating, Add	7,371.77	
		For Class 56 Rating, Add	9,764.79	
40 05 19 00-2494	EA	30" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,729.90	2,007.57
		For Class 52 Rating, Deduct	-3,705.69	
		For Class 54 Rating, Add	5,089.72	
		For Class 55 Rating, Add	7,585.45	
		For Class 56 Rating, Add	10,047.50	
40 05 19 00-2495	EA	30" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,694.37	2,012.18
		For Class 52 Rating, Deduct	-3,811.02	
		For Class 54 Rating, Add	5,233.43	
		For Class 55 Rating, Add	7,799.14	
		For Class 56 Rating, Add	10,330.21	
40 05 19 00-2496	EA	30" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,658.84	2,016.81
		For Class 52 Rating, Deduct	-3,916.34	
		For Class 54 Rating, Add	5,377.13	
		For Class 55 Rating, Add	8,012.83	
		For Class 56 Rating, Add	10,612.92	
40 05 19 00-2497	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,623.32	2,021.42
		For Class 52 Rating, Deduct	-4,021.66	
		For Class 54 Rating, Add	5,520.84	
		For Class 55 Rating, Add	8,226.51	
		For Class 56 Rating, Add	10,895.62	
40 05 19 00-2498	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,587.79	2,026.04
		For Class 52 Rating, Deduct	-4,126.98	
		For Class 54 Rating, Add	5,664.54	
		For Class 55 Rating, Add	8,440.20	
		For Class 56 Rating, Add	11,178.33	
40 05 19 00-2499	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,552.25	2,030.65
		For Class 52 Rating, Deduct	-4,232.31	
		For Class 54 Rating, Add	5,808.25	
		For Class 55 Rating, Add	8,653.88	
		For Class 56 Rating, Add	11,461.04	
40 05 19 00-2500	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,516.73	2,035.26
		For Class 52 Rating, Deduct	-4,337.63	
		For Class 54 Rating, Add	5,951.95	
		For Class 55 Rating, Add	8,867.57	
		For Class 56 Rating, Add	11,743.75	
40 05 19 00-2501	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,481.20	2,039.88
		For Class 52 Rating, Deduct	-4,442.95	
		For Class 54 Rating, Add	6,095.66	
		For Class 55 Rating, Add	9,081.25	
		For Class 56 Rating, Add	12,026.45	
40 05 19 00-2502	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,445.67	2,044.49
		For Class 52 Rating, Deduct	-4,548.27	
		For Class 54 Rating, Add	6,239.37	
		For Class 55 Rating, Add	9,294.94	
		For Class 56 Rating, Add	12,309.16	
40 05 19 00-2503	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,410.14	2,049.11
		For Class 52 Rating, Deduct	-4,653.60	
		For Class 54 Rating, Add	6,383.07	
		For Class 55 Rating, Add	9,508.62	
		For Class 56 Rating, Add	12,591.87	
40 05 19 00-2504	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	46,374.61	2,053.73
		For Class 52 Rating, Deduct	-4,758.92	
		For Class 54 Rating, Add	6,526.78	
		For Class 55 Rating, Add	9,722.31	
		For Class 56 Rating, Add	12,874.58	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2505	EA		36" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,339.07	2,058.34
			For Class 52 Rating, Deduct	-4,864.24	
			For Class 54 Rating, Add	6,670.48	
			For Class 55 Rating, Add	9,935.99	
			For Class 56 Rating, Add	13,157.28	
40 05 19 00-2506 36" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)					
40 05 19 00-2507	EA		36" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,283.17	2,409.09
			For Class 52 Rating, Deduct	-1,829.63	
			For Class 54 Rating, Add	2,538.76	
			For Class 55 Rating, Add	3,796.77	
			For Class 56 Rating, Add	5,038.15	
40 05 19 00-2508	EA		36" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,575.20	2,413.71
			For Class 52 Rating, Deduct	-1,970.99	
			For Class 54 Rating, Add	2,731.60	
			For Class 55 Rating, Add	4,083.50	
			For Class 56 Rating, Add	5,417.49	
40 05 19 00-2509	EA		36" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,867.23	2,418.32
			For Class 52 Rating, Deduct	-2,112.34	
			For Class 54 Rating, Add	2,924.44	
			For Class 55 Rating, Add	4,370.23	
			For Class 56 Rating, Add	5,796.83	
40 05 19 00-2510	EA		36" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,159.26	2,422.94
			For Class 52 Rating, Deduct	-2,253.70	
			For Class 54 Rating, Add	3,117.28	
			For Class 55 Rating, Add	4,656.96	
			For Class 56 Rating, Add	6,176.16	
40 05 19 00-2511	EA		36" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,451.29	2,427.55
			For Class 52 Rating, Deduct	-2,395.05	
			For Class 54 Rating, Add	3,310.11	
			For Class 55 Rating, Add	4,943.69	
			For Class 56 Rating, Add	6,555.50	
40 05 19 00-2512	EA		36" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,743.32	2,432.16
			For Class 52 Rating, Deduct	-2,536.40	
			For Class 54 Rating, Add	3,502.95	
			For Class 55 Rating, Add	5,230.43	
			For Class 56 Rating, Add	6,934.84	
40 05 19 00-2513	EA		36" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,035.35	2,436.78
			For Class 52 Rating, Deduct	-2,677.76	
			For Class 54 Rating, Add	3,695.79	
			For Class 55 Rating, Add	5,517.16	
			For Class 56 Rating, Add	7,314.18	
40 05 19 00-2514	EA		36" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,327.39	2,441.39
			For Class 52 Rating, Deduct	-2,819.11	
			For Class 54 Rating, Add	3,888.63	
			For Class 55 Rating, Add	5,803.89	
			For Class 56 Rating, Add	7,693.52	
40 05 19 00-2515	EA		36" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,619.41	2,446.01
			For Class 52 Rating, Deduct	-2,960.47	
			For Class 54 Rating, Add	4,081.47	
			For Class 55 Rating, Add	6,090.62	
			For Class 56 Rating, Add	8,072.85	
40 05 19 00-2516	EA		36" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,911.44	2,450.63
			For Class 52 Rating, Deduct	-3,101.82	
			For Class 54 Rating, Add	4,274.31	
			For Class 55 Rating, Add	6,377.35	
			For Class 56 Rating, Add	8,452.19	
40 05 19 00-2517	EA		36" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,203.47	2,455.24
			For Class 52 Rating, Deduct	-3,243.18	
			For Class 54 Rating, Add	4,467.15	
			For Class 55 Rating, Add	6,664.08	
			For Class 56 Rating, Add	8,831.53	
40 05 19 00-2518	EA		36" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,495.49	2,459.86
			For Class 52 Rating, Deduct	-3,384.53	
			For Class 54 Rating, Add	4,659.99	
			For Class 55 Rating, Add	6,950.81	
			For Class 56 Rating, Add	9,210.86	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2519	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		35,787.52	2,464.47
		For Class 52 Rating, Deduct		-3,525.88	
		For Class 54 Rating, Add		4,852.83	
		For Class 55 Rating, Add		7,237.54	
		For Class 56 Rating, Add		9,590.20	
40 05 19 00-2520	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		37,079.56	2,469.09
		For Class 52 Rating, Deduct		-3,667.24	
		For Class 54 Rating, Add		5,045.67	
		For Class 55 Rating, Add		7,524.27	
		For Class 56 Rating, Add		9,969.54	
40 05 19 00-2521	EA	36" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		38,371.58	2,473.70
		For Class 52 Rating, Deduct		-3,808.59	
		For Class 54 Rating, Add		5,238.51	
		For Class 55 Rating, Add		7,811.00	
		For Class 56 Rating, Add		10,348.88	
40 05 19 00-2522	EA	36" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		39,663.61	2,478.31
		For Class 52 Rating, Deduct		-3,949.94	
		For Class 54 Rating, Add		5,431.35	
		For Class 55 Rating, Add		8,097.74	
		For Class 56 Rating, Add		10,728.21	
40 05 19 00-2523	EA	36" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		40,955.65	2,482.93
		For Class 52 Rating, Deduct		-4,091.30	
		For Class 54 Rating, Add		5,624.19	
		For Class 55 Rating, Add		8,384.47	
		For Class 56 Rating, Add		11,107.55	
40 05 19 00-2524	EA	36" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		42,247.67	2,487.55
		For Class 52 Rating, Deduct		-4,232.65	
		For Class 54 Rating, Add		5,817.03	
		For Class 55 Rating, Add		8,671.20	
		For Class 56 Rating, Add		11,486.89	
40 05 19 00-2525	EA	36" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		43,539.70	2,492.16
		For Class 52 Rating, Deduct		-4,374.01	
		For Class 54 Rating, Add		6,009.87	
		For Class 55 Rating, Add		8,957.93	
		For Class 56 Rating, Add		11,866.23	
40 05 19 00-2526	EA	36" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		44,831.74	2,496.78
		For Class 52 Rating, Deduct		-4,515.36	
		For Class 54 Rating, Add		6,202.71	
		For Class 55 Rating, Add		9,244.66	
		For Class 56 Rating, Add		12,245.57	
40 05 19 00-2527	EA	36" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		46,123.76	2,501.39
		For Class 52 Rating, Deduct		-4,656.71	
		For Class 54 Rating, Add		6,395.55	
		For Class 55 Rating, Add		9,531.39	
		For Class 56 Rating, Add		12,624.90	
40 05 19 00-2528	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		47,415.79	2,506.01
		For Class 52 Rating, Deduct		-4,798.07	
		For Class 54 Rating, Add		6,588.39	
		For Class 55 Rating, Add		9,818.12	
		For Class 56 Rating, Add		13,004.24	
40 05 19 00-2529	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		48,707.82	2,510.62
		For Class 52 Rating, Deduct		-4,939.42	
		For Class 54 Rating, Add		6,781.23	
		For Class 55 Rating, Add		10,104.85	
		For Class 56 Rating, Add		13,383.58	
40 05 19 00-2530	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		49,999.84	2,515.23
		For Class 52 Rating, Deduct		-5,080.78	
		For Class 54 Rating, Add		6,974.06	
		For Class 55 Rating, Add		10,391.58	
		For Class 56 Rating, Add		13,762.91	
40 05 19 00-2531	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		51,291.87	2,519.85
		For Class 52 Rating, Deduct		-5,222.13	
		For Class 54 Rating, Add		7,166.90	
		For Class 55 Rating, Add		10,678.31	
		For Class 56 Rating, Add		14,142.25	
40 05 19 00-2532	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		52,583.91	2,524.47
		For Class 52 Rating, Deduct		-5,363.49	
		For Class 54 Rating, Add		7,359.74	
		For Class 55 Rating, Add		10,965.05	
		For Class 56 Rating, Add		14,521.59	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2533	EA		36" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	53,875.93	2,529.08
			For Class 52 Rating, Deduct	-5,504.84	
			For Class 54 Rating, Add	7,552.58	
			For Class 55 Rating, Add	11,251.78	
			For Class 56 Rating, Add	14,900.93	
40 05 19 00-2534	EA		36" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	55,167.96	2,533.70
			For Class 52 Rating, Deduct	-5,646.19	
			For Class 54 Rating, Add	7,745.42	
			For Class 55 Rating, Add	11,538.51	
			For Class 56 Rating, Add	15,280.27	
40 05 19 00-2535	EA		36" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	56,460.00	2,538.31
			For Class 52 Rating, Deduct	-5,787.55	
			For Class 54 Rating, Add	7,938.26	
			For Class 55 Rating, Add	11,825.24	
			For Class 56 Rating, Add	15,659.60	
40 05 19 00-2536	EA		36" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	57,752.02	2,542.93
			For Class 52 Rating, Deduct	-5,928.90	
			For Class 54 Rating, Add	8,131.10	
			For Class 55 Rating, Add	12,111.97	
			For Class 56 Rating, Add	16,038.94	
40 05 19 00-2537	EA		36" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	59,044.05	2,547.54
			For Class 52 Rating, Deduct	-6,070.26	
			For Class 54 Rating, Add	8,323.94	
			For Class 55 Rating, Add	12,398.70	
			For Class 56 Rating, Add	16,418.28	
40 05 19 00-2538	EA		36" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	60,336.09	2,552.15
			For Class 52 Rating, Deduct	-6,211.61	
			For Class 54 Rating, Add	8,516.78	
			For Class 55 Rating, Add	12,685.43	
			For Class 56 Rating, Add	16,797.62	
40 05 19 00-2539	EA		36" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	61,628.12	2,556.77
			For Class 52 Rating, Deduct	-6,352.96	
			For Class 54 Rating, Add	8,709.62	
			For Class 55 Rating, Add	12,972.16	
			For Class 56 Rating, Add	17,176.96	
40 05 19 00-2540	EA		36" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	62,920.14	2,561.39
			For Class 52 Rating, Deduct	-6,494.32	
			For Class 54 Rating, Add	8,902.46	
			For Class 55 Rating, Add	13,258.89	
			For Class 56 Rating, Add	17,556.29	
40 05 19 00-2541	EA		36" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	64,212.18	2,566.01
			For Class 52 Rating, Deduct	-6,635.67	
			For Class 54 Rating, Add	9,095.30	
			For Class 55 Rating, Add	13,545.63	
			For Class 56 Rating, Add	17,935.63	

40 05 19 00-2542 42" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-2074)

40 05 19 00-2543	EA		42" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,790.05	3,036.75
			For Class 52 Rating, Deduct	-2,440.78	
			For Class 54 Rating, Add	3,383.55	
			For Class 55 Rating, Add	5,058.56	
			For Class 56 Rating, Add	6,711.37	
40 05 19 00-2544	EA		42" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,686.81	3,041.36
			For Class 52 Rating, Deduct	-2,648.66	
			For Class 54 Rating, Add	3,667.10	
			For Class 55 Rating, Add	5,480.14	
			For Class 56 Rating, Add	7,269.11	
40 05 19 00-2545	EA		42" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,567.81	3,045.98
			For Class 52 Rating, Deduct	-2,854.80	
			For Class 54 Rating, Add	3,948.29	
			For Class 55 Rating, Add	5,898.21	
			For Class 56 Rating, Add	7,822.19	
40 05 19 00-2546	EA		42" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,467.71	3,050.59
			For Class 52 Rating, Deduct	-3,063.02	
			For Class 54 Rating, Add	4,232.31	
			For Class 55 Rating, Add	6,320.50	
			For Class 56 Rating, Add	8,380.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2547	EA	42" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	34,355.02	3,055.20
		For Class 52 Rating, Deduct		-3,269.85	
		For Class 54 Rating, Add		4,514.44	
		For Class 55 Rating, Add		6,739.98	
		For Class 56 Rating, Add		8,935.79	
40 05 19 00-2548	EA	42" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	36,261.22	3,059.82
		For Class 52 Rating, Deduct		-3,478.76	
		For Class 54 Rating, Add		4,799.40	
		For Class 55 Rating, Add		7,163.67	
		For Class 56 Rating, Add		9,496.31	
40 05 19 00-2549	EA	42" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	38,148.52	3,064.43
		For Class 52 Rating, Deduct		-3,685.60	
		For Class 54 Rating, Add		5,081.53	
		For Class 55 Rating, Add		7,583.15	
		For Class 56 Rating, Add		10,051.26	
40 05 19 00-2550	EA	42" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	40,057.88	3,069.05
		For Class 52 Rating, Deduct		-3,894.86	
		For Class 54 Rating, Add		5,366.97	
		For Class 55 Rating, Add		8,007.54	
		For Class 56 Rating, Add		10,612.70	
40 05 19 00-2551	EA	42" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	41,951.48	3,073.67
		For Class 52 Rating, Deduct		-4,102.39	
		For Class 54 Rating, Add		5,650.05	
		For Class 55 Rating, Add		8,428.42	
		For Class 56 Rating, Add		11,169.51	
40 05 19 00-2552	EA	42" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	43,860.84	3,078.28
		For Class 52 Rating, Deduct		-4,311.64	
		For Class 54 Rating, Add		5,935.48	
		For Class 55 Rating, Add		8,852.82	
		For Class 56 Rating, Add		11,730.95	
40 05 19 00-2553	EA	42" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	45,754.44	3,082.90
		For Class 52 Rating, Deduct		-4,519.17	
		For Class 54 Rating, Add		6,218.56	
		For Class 55 Rating, Add		9,273.70	
		For Class 56 Rating, Add		12,287.76	
40 05 19 00-2554	EA	42" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	47,666.93	3,087.51
		For Class 52 Rating, Deduct		-4,728.78	
		For Class 54 Rating, Add		6,504.47	
		For Class 55 Rating, Add		9,698.80	
		For Class 56 Rating, Add		12,850.13	
40 05 19 00-2555	EA	42" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	49,560.54	3,092.12
		For Class 52 Rating, Deduct		-4,936.31	
		For Class 54 Rating, Add		6,787.55	
		For Class 55 Rating, Add		10,119.68	
		For Class 56 Rating, Add		13,406.93	
40 05 19 00-2556	EA	42" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	51,460.44	3,096.74
		For Class 52 Rating, Deduct		-5,144.53	
		For Class 54 Rating, Add		7,071.57	
		For Class 55 Rating, Add		10,541.96	
		For Class 56 Rating, Add		13,965.59	
40 05 19 00-2557	EA	42" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	53,369.79	3,101.35
		For Class 52 Rating, Deduct		-5,353.78	
		For Class 54 Rating, Add		7,357.00	
		For Class 55 Rating, Add		10,966.36	
		For Class 56 Rating, Add		14,527.04	
40 05 19 00-2558	EA	42" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	55,266.55	3,105.98
		For Class 52 Rating, Deduct		-5,561.66	
		For Class 54 Rating, Add		7,640.55	
		For Class 55 Rating, Add		11,387.94	
		For Class 56 Rating, Add		15,084.77	
40 05 19 00-2559	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	57,185.35	3,110.59
		For Class 52 Rating, Deduct		-5,771.96	
		For Class 54 Rating, Add		7,927.41	
		For Class 55 Rating, Add		11,814.44	
		For Class 56 Rating, Add		15,649.01	
40 05 19 00-2560	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron	Pipe	59,085.25	3,115.20
		For Class 52 Rating, Deduct		-5,980.18	
		For Class 54 Rating, Add		8,211.43	
		For Class 55 Rating, Add		12,236.73	
		For Class 56 Rating, Add		16,207.67	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2561	EA		42" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	61,000.90	3,119.82
			For Class 52 Rating, Deduct	-6,190.13	
			For Class 54 Rating, Add	8,497.81	
			For Class 55 Rating, Add	12,662.53	
			For Class 56 Rating, Add	16,770.97	
40 05 19 00-2562	EA		42" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	62,897.65	3,124.43
			For Class 52 Rating, Deduct	-6,398.00	
			For Class 54 Rating, Add	8,781.36	
			For Class 55 Rating, Add	13,084.11	
			For Class 56 Rating, Add	17,328.70	
40 05 19 00-2563	EA		42" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	64,819.60	3,129.04
			For Class 52 Rating, Deduct	-6,608.65	
			For Class 54 Rating, Add	9,068.68	
			For Class 55 Rating, Add	13,511.32	
			For Class 56 Rating, Add	17,893.87	
40 05 19 00-2564	EA		42" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	66,719.51	3,133.66
			For Class 52 Rating, Deduct	-6,816.87	
			For Class 54 Rating, Add	9,352.71	
			For Class 55 Rating, Add	13,933.60	
			For Class 56 Rating, Add	18,452.53	
40 05 19 00-2565	EA		42" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	68,635.16	3,138.27
			For Class 52 Rating, Deduct	-7,026.82	
			For Class 54 Rating, Add	9,639.09	
			For Class 55 Rating, Add	14,359.40	
			For Class 56 Rating, Add	19,015.83	
40 05 19 00-2566	EA		42" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	70,535.06	3,142.90
			For Class 52 Rating, Deduct	-7,235.04	
			For Class 54 Rating, Add	9,923.11	
			For Class 55 Rating, Add	14,781.69	
			For Class 56 Rating, Add	19,574.50	
40 05 19 00-2567	EA		42" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	72,457.00	3,147.51
			For Class 52 Rating, Deduct	-7,445.69	
			For Class 54 Rating, Add	10,210.43	
			For Class 55 Rating, Add	15,208.89	
			For Class 56 Rating, Add	20,139.66	
40 05 19 00-2568	EA		42" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	74,356.90	3,152.12
			For Class 52 Rating, Deduct	-7,653.91	
			For Class 54 Rating, Add	10,494.46	
			For Class 55 Rating, Add	15,631.18	
			For Class 56 Rating, Add	20,698.32	
40 05 19 00-2569	EA		42" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	76,272.55	3,156.74
			For Class 52 Rating, Deduct	-7,863.86	
			For Class 54 Rating, Add	10,780.84	
			For Class 55 Rating, Add	16,056.98	
			For Class 56 Rating, Add	21,261.62	
40 05 19 00-2570	EA		42" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	78,175.61	3,161.35
			For Class 52 Rating, Deduct	-8,072.42	
			For Class 54 Rating, Add	11,065.33	
			For Class 55 Rating, Add	16,479.96	
			For Class 56 Rating, Add	21,821.21	
40 05 19 00-2571	EA		42" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	79,716.46	3,165.97
			For Class 52 Rating, Deduct	-8,241.15	
			For Class 54 Rating, Add	11,295.49	
			For Class 55 Rating, Add	16,822.18	
			For Class 56 Rating, Add	22,273.95	
40 05 19 00-2572	EA		42" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	81,997.46	3,170.58
			For Class 52 Rating, Deduct	-8,491.29	
			For Class 54 Rating, Add	11,636.68	
			For Class 55 Rating, Add	17,329.46	
			For Class 56 Rating, Add	22,945.04	
40 05 19 00-2573	EA		42" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	83,897.37	3,175.20
			For Class 52 Rating, Deduct	-8,699.51	
			For Class 54 Rating, Add	11,920.70	
			For Class 55 Rating, Add	17,751.74	
			For Class 56 Rating, Add	23,503.70	
40 05 19 00-2574	EA		42" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	85,816.16	3,179.82
			For Class 52 Rating, Deduct	-8,909.81	
			For Class 54 Rating, Add	12,207.55	
			For Class 55 Rating, Add	18,178.24	
			For Class 56 Rating, Add	24,067.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2575	EA		42" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	87,719.21	3,184.43
			For Class 52 Rating, Deduct	-9,118.38	
			For Class 54 Rating, Add	12,492.05	
			For Class 55 Rating, Add	18,601.23	
			For Class 56 Rating, Add	24,627.52	
40 05 19 00-2576	EA		42" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	89,641.17	3,189.04
			For Class 52 Rating, Deduct	-9,329.02	
			For Class 54 Rating, Add	12,779.37	
			For Class 55 Rating, Add	19,028.43	
			For Class 56 Rating, Add	25,192.69	
40 05 19 00-2577	EA		42" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	91,537.92	3,193.66
			For Class 52 Rating, Deduct	-9,536.89	
			For Class 54 Rating, Add	13,062.92	
			For Class 55 Rating, Add	19,450.02	
			For Class 56 Rating, Add	25,750.42	
40 05 19 00-2578 48" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)					
40 05 19 00-2579	EA		48" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,603.30	3,816.70
			For Class 52 Rating, Deduct	-3,060.25	
			For Class 54 Rating, Add	4,242.46	
			For Class 55 Rating, Add	6,342.74	
			For Class 56 Rating, Add	8,415.21	
40 05 19 00-2580	EA		48" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,312.64	3,821.31
			For Class 52 Rating, Deduct	-3,357.50	
			For Class 54 Rating, Add	4,647.89	
			For Class 55 Rating, Add	6,945.53	
			For Class 56 Rating, Add	9,212.65	
40 05 19 00-2581	EA		48" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,028.30	3,825.92
			For Class 52 Rating, Deduct	-3,655.46	
			For Class 54 Rating, Add	5,054.28	
			For Class 55 Rating, Add	7,549.73	
			For Class 56 Rating, Add	10,011.96	
40 05 19 00-2582	EA		48" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,775.44	3,830.55
			For Class 52 Rating, Deduct	-3,956.87	
			For Class 54 Rating, Add	5,465.38	
			For Class 55 Rating, Add	8,160.95	
			For Class 56 Rating, Add	10,820.56	
40 05 19 00-2583	EA		48" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,513.13	3,835.16
			For Class 52 Rating, Deduct	-4,257.25	
			For Class 54 Rating, Add	5,875.07	
			For Class 55 Rating, Add	8,770.07	
			For Class 56 Rating, Add	11,626.36	
40 05 19 00-2584	EA		48" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,257.13	3,839.78
			For Class 52 Rating, Deduct	-4,558.32	
			For Class 54 Rating, Add	6,285.71	
			For Class 55 Rating, Add	9,380.59	
			For Class 56 Rating, Add	12,434.03	
40 05 19 00-2585	EA		48" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	50,020.02	3,844.39
			For Class 52 Rating, Deduct	-4,861.47	
			For Class 54 Rating, Add	6,699.18	
			For Class 55 Rating, Add	9,995.32	
			For Class 56 Rating, Add	13,247.27	
40 05 19 00-2586	EA		48" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,776.61	3,849.00
			For Class 52 Rating, Deduct	-5,163.93	
			For Class 54 Rating, Add	7,111.70	
			For Class 55 Rating, Add	10,608.65	
			For Class 56 Rating, Add	14,058.66	
40 05 19 00-2587	EA		48" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	55,530.06	3,853.62
			For Class 52 Rating, Deduct	-5,466.04	
			For Class 54 Rating, Add	7,523.75	
			For Class 55 Rating, Add	11,221.28	
			For Class 56 Rating, Add	14,869.11	
40 05 19 00-2588	EA		48" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	58,311.85	3,858.23
			For Class 52 Rating, Deduct	-5,771.26	
			For Class 54 Rating, Add	7,940.06	
			For Class 55 Rating, Add	11,840.23	
			For Class 56 Rating, Add	15,687.93	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2589	EA		48" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	61,074.74	3,862.85
			For Class 52 Rating, Deduct	-6,074.41	
			For Class 54 Rating, Add	8,353.52	
			For Class 55 Rating, Add	12,454.96	
			For Class 56 Rating, Add	16,501.17	
40 05 19 00-2590	EA		48" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	63,859.68	3,867.47
			For Class 52 Rating, Deduct	-6,379.99	
			For Class 54 Rating, Add	8,770.30	
			For Class 55 Rating, Add	13,074.61	
			For Class 56 Rating, Add	17,320.92	
40 05 19 00-2591	EA		48" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	66,628.87	3,872.08
			For Class 52 Rating, Deduct	-6,683.83	
			For Class 54 Rating, Add	9,184.71	
			For Class 55 Rating, Add	13,690.75	
			For Class 56 Rating, Add	18,136.02	
40 05 19 00-2592	EA		48" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	69,401.21	3,876.70
			For Class 52 Rating, Deduct	-6,988.02	
			For Class 54 Rating, Add	9,599.60	
			For Class 55 Rating, Add	14,307.59	
			For Class 56 Rating, Add	18,952.05	
40 05 19 00-2593	EA		48" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	72,192.46	3,881.31
			For Class 52 Rating, Deduct	-7,294.28	
			For Class 54 Rating, Add	10,017.32	
			For Class 55 Rating, Add	14,928.64	
			For Class 56 Rating, Add	19,773.65	
40 05 19 00-2594	EA		48" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	74,971.10	3,885.92
			For Class 52 Rating, Deduct	-7,599.17	
			For Class 54 Rating, Add	10,433.15	
			For Class 55 Rating, Add	15,546.89	
			For Class 56 Rating, Add	20,591.54	
40 05 19 00-2595	EA		48" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	77,746.58	3,890.54
			For Class 52 Rating, Deduct	-7,903.70	
			For Class 54 Rating, Add	10,848.51	
			For Class 55 Rating, Add	16,164.43	
			For Class 56 Rating, Add	21,408.50	
40 05 19 00-2596	EA		48" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	80,544.12	3,895.15
			For Class 52 Rating, Deduct	-8,210.66	
			For Class 54 Rating, Add	11,267.18	
			For Class 55 Rating, Add	16,786.89	
			For Class 56 Rating, Add	22,231.96	
40 05 19 00-2597	EA		48" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	83,325.91	3,899.77
			For Class 52 Rating, Deduct	-8,515.89	
			For Class 54 Rating, Add	11,683.48	
			For Class 55 Rating, Add	17,405.84	
			For Class 56 Rating, Add	23,050.78	
40 05 19 00-2598	EA		48" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	86,104.55	3,904.39
			For Class 52 Rating, Deduct	-8,820.77	
			For Class 54 Rating, Add	12,099.31	
			For Class 55 Rating, Add	18,024.08	
			For Class 56 Rating, Add	23,868.67	
40 05 19 00-2599	EA		48" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	88,905.24	3,909.00
			For Class 52 Rating, Deduct	-9,128.08	
			For Class 54 Rating, Add	12,518.45	
			For Class 55 Rating, Add	18,647.25	
			For Class 56 Rating, Add	24,693.06	
40 05 19 00-2600	EA		48" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	91,693.33	3,913.62
			For Class 52 Rating, Deduct	-9,434.00	
			For Class 54 Rating, Add	12,935.70	
			For Class 55 Rating, Add	19,267.60	
			For Class 56 Rating, Add	25,513.73	
40 05 19 00-2601	EA		48" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	94,475.12	3,918.23
			For Class 52 Rating, Deduct	-9,739.23	
			For Class 54 Rating, Add	13,352.00	
			For Class 55 Rating, Add	19,886.55	
			For Class 56 Rating, Add	26,332.55	
40 05 19 00-2602	EA		48" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	97,278.96	3,922.85
			For Class 52 Rating, Deduct	-10,046.88	
			For Class 54 Rating, Add	13,771.61	
			For Class 55 Rating, Add	20,510.41	
			For Class 56 Rating, Add	27,157.87	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2603	EA	48" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	100,067.05	3,927.46
		For Class 52 Rating, Deduct	-10,352.80	
		For Class 54 Rating, Add	14,188.86	
		For Class 55 Rating, Add	21,130.76	
		For Class 56 Rating, Add	27,978.55	
40 05 19 00-2604	EA	48" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	102,851.98	3,932.07
		For Class 52 Rating, Deduct	-10,658.37	
		For Class 54 Rating, Add	14,605.64	
		For Class 55 Rating, Add	21,750.41	
		For Class 56 Rating, Add	28,798.29	
40 05 19 00-2605	EA	48" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	105,658.98	3,936.69
		For Class 52 Rating, Deduct	-10,966.37	
		For Class 54 Rating, Add	15,025.72	
		For Class 55 Rating, Add	22,374.98	
		For Class 56 Rating, Add	29,624.54	
40 05 19 00-2606	EA	48" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	108,450.22	3,941.31
		For Class 52 Rating, Deduct	-11,272.64	
		For Class 54 Rating, Add	15,443.44	
		For Class 55 Rating, Add	22,996.03	
		For Class 56 Rating, Add	30,446.15	
40 05 19 00-2607	EA	48" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	110,913.89	3,945.92
		For Class 52 Rating, Deduct	-11,542.87	
		For Class 54 Rating, Add	15,812.03	
		For Class 55 Rating, Add	23,544.04	
		For Class 56 Rating, Add	31,171.12	
40 05 19 00-2608	EA	48" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	114,048.45	3,950.54
		For Class 52 Rating, Deduct	-11,886.91	
		For Class 54 Rating, Add	16,281.25	
		For Class 55 Rating, Add	24,241.66	
		For Class 56 Rating, Add	32,094.00	
40 05 19 00-2609	EA	48" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	116,836.52	3,955.15
		For Class 52 Rating, Deduct	-12,192.83	
		For Class 54 Rating, Add	16,698.49	
		For Class 55 Rating, Add	24,862.01	
		For Class 56 Rating, Add	32,914.68	
40 05 19 00-2610	EA	48" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	119,649.81	3,959.77
		For Class 52 Rating, Deduct	-12,501.52	
		For Class 54 Rating, Add	17,119.52	
		For Class 55 Rating, Add	25,487.98	
		For Class 56 Rating, Add	33,742.79	
40 05 19 00-2611	EA	48" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	122,437.90	3,964.38
		For Class 52 Rating, Deduct	-12,807.44	
		For Class 54 Rating, Add	17,536.77	
		For Class 55 Rating, Add	26,108.33	
		For Class 56 Rating, Add	34,563.46	
40 05 19 00-2612	EA	48" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	125,225.99	3,968.99
		For Class 52 Rating, Deduct	-13,113.36	
		For Class 54 Rating, Add	17,954.02	
		For Class 55 Rating, Add	26,728.68	
		For Class 56 Rating, Add	35,384.14	
40 05 19 00-2613	EA	48" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	128,042.42	3,973.62
		For Class 52 Rating, Deduct	-13,422.40	
		For Class 54 Rating, Add	18,375.52	
		For Class 55 Rating, Add	27,355.36	
		For Class 56 Rating, Add	36,213.17	
40 05 19 00-2614		Flanged End x Grooved End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2073)		
40 05 19 00-2615		4" Flanged End x Grooved End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2616	EA	4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	883.76	211.19
		For Class 52 Rating, Deduct	-62.02	
		For Class 54 Rating, Add	88.41	
		For Class 55 Rating, Add	133.40	
		For Class 56 Rating, Add	177.83	
40 05 19 00-2617	EA	4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,009.03	214.88
		For Class 52 Rating, Deduct	-75.18	
		For Class 54 Rating, Add	106.43	
		For Class 55 Rating, Add	160.23	
		For Class 56 Rating, Add	213.34	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2618	EA		4" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,134.31	218.57
			For Class 52 Rating, Deduct	-88.35	
			For Class 54 Rating, Add	124.45	
			For Class 55 Rating, Add	187.05	
			For Class 56 Rating, Add	248.85	
40 05 19 00-2619	EA		4" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,259.60	222.27
			For Class 52 Rating, Deduct	-101.51	
			For Class 54 Rating, Add	142.47	
			For Class 55 Rating, Add	213.87	
			For Class 56 Rating, Add	284.36	
40 05 19 00-2620	EA		4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,384.88	225.96
			For Class 52 Rating, Deduct	-114.68	
			For Class 54 Rating, Add	160.49	
			For Class 55 Rating, Add	240.70	
			For Class 56 Rating, Add	319.87	
40 05 19 00-2621	EA		4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,510.15	229.65
			For Class 52 Rating, Deduct	-127.84	
			For Class 54 Rating, Add	178.51	
			For Class 55 Rating, Add	267.52	
			For Class 56 Rating, Add	355.38	
40 05 19 00-2622	EA		4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,635.44	233.34
			For Class 52 Rating, Deduct	-141.01	
			For Class 54 Rating, Add	196.53	
			For Class 55 Rating, Add	294.35	
			For Class 56 Rating, Add	390.89	
40 05 19 00-2623	EA		4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,760.71	237.04
			For Class 52 Rating, Deduct	-154.17	
			For Class 54 Rating, Add	214.55	
			For Class 55 Rating, Add	321.17	
			For Class 56 Rating, Add	426.39	
40 05 19 00-2624	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,886.00	240.72
			For Class 52 Rating, Deduct	-167.34	
			For Class 54 Rating, Add	232.57	
			For Class 55 Rating, Add	347.99	
			For Class 56 Rating, Add	461.90	
40 05 19 00-2625	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,011.27	244.42
			For Class 52 Rating, Deduct	-180.50	
			For Class 54 Rating, Add	250.58	
			For Class 55 Rating, Add	374.82	
			For Class 56 Rating, Add	497.41	
40 05 19 00-2626	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,136.55	248.11
			For Class 52 Rating, Deduct	-193.67	
			For Class 54 Rating, Add	268.61	
			For Class 55 Rating, Add	401.64	
			For Class 56 Rating, Add	532.92	
40 05 19 00-2627	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,261.83	251.80
			For Class 52 Rating, Deduct	-206.83	
			For Class 54 Rating, Add	286.62	
			For Class 55 Rating, Add	428.47	
			For Class 56 Rating, Add	568.43	
40 05 19 00-2628	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,387.11	255.49
			For Class 52 Rating, Deduct	-220.00	
			For Class 54 Rating, Add	304.65	
			For Class 55 Rating, Add	455.29	
			For Class 56 Rating, Add	603.94	
40 05 19 00-2629	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,512.38	259.19
			For Class 52 Rating, Deduct	-233.16	
			For Class 54 Rating, Add	322.66	
			For Class 55 Rating, Add	482.11	
			For Class 56 Rating, Add	639.44	
40 05 19 00-2630	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,637.67	262.88
			For Class 52 Rating, Deduct	-246.33	
			For Class 54 Rating, Add	340.69	
			For Class 55 Rating, Add	508.94	
			For Class 56 Rating, Add	674.95	
40 05 19 00-2631	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,762.94	266.57
			For Class 52 Rating, Deduct	-259.50	
			For Class 54 Rating, Add	358.70	
			For Class 55 Rating, Add	535.76	
			For Class 56 Rating, Add	710.46	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2632	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,888.22	270.26
			For Class 52 Rating, Deduct	-272.66	
			For Class 54 Rating, Add	376.72	
			For Class 55 Rating, Add	562.59	
			For Class 56 Rating, Add	745.97	
40 05 19 00-2633	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,013.51	273.96
			For Class 52 Rating, Deduct	-285.83	
			For Class 54 Rating, Add	394.74	
			For Class 55 Rating, Add	589.41	
			For Class 56 Rating, Add	781.48	
40 05 19 00-2634	EA		4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,138.78	277.64
			For Class 52 Rating, Deduct	-298.99	
			For Class 54 Rating, Add	412.76	
			For Class 55 Rating, Add	616.23	
			For Class 56 Rating, Add	816.98	
40 05 19 00-2635	EA		4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,264.06	281.34
			For Class 52 Rating, Deduct	-312.16	
			For Class 54 Rating, Add	430.78	
			For Class 55 Rating, Add	643.06	
			For Class 56 Rating, Add	852.49	
40 05 19 00-2636	EA		4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,389.34	285.03
			For Class 52 Rating, Deduct	-325.32	
			For Class 54 Rating, Add	448.80	
			For Class 55 Rating, Add	669.88	
			For Class 56 Rating, Add	888.00	
40 05 19 00-2637	EA		4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,514.62	288.73
			For Class 52 Rating, Deduct	-338.49	
			For Class 54 Rating, Add	466.82	
			For Class 55 Rating, Add	696.71	
			For Class 56 Rating, Add	923.51	
40 05 19 00-2638	EA		4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,639.89	292.41
			For Class 52 Rating, Deduct	-351.65	
			For Class 54 Rating, Add	484.84	
			For Class 55 Rating, Add	723.53	
			For Class 56 Rating, Add	959.02	
40 05 19 00-2639	EA		4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,765.18	296.11
			For Class 52 Rating, Deduct	-364.82	
			For Class 54 Rating, Add	502.86	
			For Class 55 Rating, Add	750.35	
			For Class 56 Rating, Add	994.53	
40 05 19 00-2640	EA		4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,890.45	299.80
			For Class 52 Rating, Deduct	-377.98	
			For Class 54 Rating, Add	520.88	
			For Class 55 Rating, Add	777.18	
			For Class 56 Rating, Add	1,030.03	
40 05 19 00-2641	EA		4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,015.73	303.49
			For Class 52 Rating, Deduct	-391.15	
			For Class 54 Rating, Add	538.90	
			For Class 55 Rating, Add	804.00	
			For Class 56 Rating, Add	1,065.54	
40 05 19 00-2642	EA		4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,141.01	307.18
			For Class 52 Rating, Deduct	-404.31	
			For Class 54 Rating, Add	556.92	
			For Class 55 Rating, Add	830.82	
			For Class 56 Rating, Add	1,101.05	
40 05 19 00-2643	EA		4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,266.29	310.88
			For Class 52 Rating, Deduct	-417.48	
			For Class 54 Rating, Add	574.94	
			For Class 55 Rating, Add	857.65	
			For Class 56 Rating, Add	1,136.56	
40 05 19 00-2644	EA		4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,391.56	314.57
			For Class 52 Rating, Deduct	-430.64	
			For Class 54 Rating, Add	592.96	
			For Class 55 Rating, Add	884.47	
			For Class 56 Rating, Add	1,172.07	
40 05 19 00-2645	EA		4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,516.85	318.26
			For Class 52 Rating, Deduct	-443.81	
			For Class 54 Rating, Add	610.98	
			For Class 55 Rating, Add	911.30	
			For Class 56 Rating, Add	1,207.58	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2646	EA		4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,642.12	321.95
			For Class 52 Rating, Deduct	-456.98	
			For Class 54 Rating, Add	629.00	
			For Class 55 Rating, Add	938.12	
			For Class 56 Rating, Add	1,243.09	
40 05 19 00-2647	EA		4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,767.41	325.65
			For Class 52 Rating, Deduct	-470.14	
			For Class 54 Rating, Add	647.02	
			For Class 55 Rating, Add	964.95	
			For Class 56 Rating, Add	1,278.60	
40 05 19 00-2648	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,892.69	329.33
			For Class 52 Rating, Deduct	-483.31	
			For Class 54 Rating, Add	665.04	
			For Class 55 Rating, Add	991.77	
			For Class 56 Rating, Add	1,314.10	
40 05 19 00-2649	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,017.97	333.03
			For Class 52 Rating, Deduct	-496.47	
			For Class 54 Rating, Add	683.06	
			For Class 55 Rating, Add	1,018.59	
			For Class 56 Rating, Add	1,349.61	
40 05 19 00-2650	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,143.24	336.72
			For Class 52 Rating, Deduct	-509.64	
			For Class 54 Rating, Add	701.08	
			For Class 55 Rating, Add	1,045.42	
			For Class 56 Rating, Add	1,385.12	
40 05 19 00-2651	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,268.53	340.41
			For Class 52 Rating, Deduct	-522.80	
			For Class 54 Rating, Add	719.10	
			For Class 55 Rating, Add	1,072.24	
			For Class 56 Rating, Add	1,420.63	
40 05 19 00-2652	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,393.80	344.10
			For Class 52 Rating, Deduct	-535.97	
			For Class 54 Rating, Add	737.12	
			For Class 55 Rating, Add	1,099.06	
			For Class 56 Rating, Add	1,456.14	
40 05 19 00-2653	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,487.58	347.80
			For Class 52 Rating, Deduct	-545.67	
			For Class 54 Rating, Add	750.42	
			For Class 55 Rating, Add	1,118.87	
			For Class 56 Rating, Add	1,482.35	
40 05 19 00-2654	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,644.36	351.49
			For Class 52 Rating, Deduct	-562.30	
			For Class 54 Rating, Add	773.16	
			For Class 55 Rating, Add	1,152.71	
			For Class 56 Rating, Add	1,527.15	

40 05 19 00-2655 6" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-2614)

40 05 19 00-2656	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,142.93	265.83
			For Class 52 Rating, Deduct	-81.42	
			For Class 54 Rating, Add	115.86	
			For Class 55 Rating, Add	174.72	
			For Class 56 Rating, Add	232.85	
40 05 19 00-2657	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,287.11	269.53
			For Class 52 Rating, Deduct	-96.66	
			For Class 54 Rating, Add	136.71	
			For Class 55 Rating, Add	205.76	
			For Class 56 Rating, Add	273.93	
40 05 19 00-2658	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,431.28	273.21
			For Class 52 Rating, Deduct	-111.91	
			For Class 54 Rating, Add	157.57	
			For Class 55 Rating, Add	236.80	
			For Class 56 Rating, Add	315.01	
40 05 19 00-2659	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,575.45	276.91
			For Class 52 Rating, Deduct	-127.15	
			For Class 54 Rating, Add	178.42	
			For Class 55 Rating, Add	267.83	
			For Class 56 Rating, Add	356.09	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2660	EA	6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	1,719.64	280.60
		For Class 52 Rating, Deduct	-142.39	
		For Class 54 Rating, Add	199.28	
		For Class 55 Rating, Add	298.87	
		For Class 56 Rating, Add	397.18	
40 05 19 00-2661	EA	6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	1,863.82	284.29
		For Class 52 Rating, Deduct	-157.64	
		For Class 54 Rating, Add	220.13	
		For Class 55 Rating, Add	329.91	
		For Class 56 Rating, Add	438.26	
40 05 19 00-2662	EA	6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	2,007.99	287.98
		For Class 52 Rating, Deduct	-172.88	
		For Class 54 Rating, Add	240.98	
		For Class 55 Rating, Add	360.95	
		For Class 56 Rating, Add	479.34	
40 05 19 00-2663	EA	6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	2,152.17	291.68
		For Class 52 Rating, Deduct	-188.13	
		For Class 54 Rating, Add	261.84	
		For Class 55 Rating, Add	391.99	
		For Class 56 Rating, Add	520.43	
40 05 19 00-2664	EA	6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	2,296.35	295.37
		For Class 52 Rating, Deduct	-203.37	
		For Class 54 Rating, Add	282.69	
		For Class 55 Rating, Add	423.03	
		For Class 56 Rating, Add	561.51	
40 05 19 00-2665	EA	6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	2,440.52	299.06
		For Class 52 Rating, Deduct	-218.61	
		For Class 54 Rating, Add	303.55	
		For Class 55 Rating, Add	454.07	
		For Class 56 Rating, Add	602.60	
40 05 19 00-2666	EA	6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	2,584.70	302.75
		For Class 52 Rating, Deduct	-233.86	
		For Class 54 Rating, Add	324.40	
		For Class 55 Rating, Add	485.10	
		For Class 56 Rating, Add	643.68	
40 05 19 00-2667	EA	6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	2,728.87	306.45
		For Class 52 Rating, Deduct	-249.10	
		For Class 54 Rating, Add	345.26	
		For Class 55 Rating, Add	516.14	
		For Class 56 Rating, Add	684.76	
40 05 19 00-2668	EA	6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	2,873.04	310.13
		For Class 52 Rating, Deduct	-264.35	
		For Class 54 Rating, Add	366.11	
		For Class 55 Rating, Add	547.18	
		For Class 56 Rating, Add	725.84	
40 05 19 00-2669	EA	6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	3,017.23	313.83
		For Class 52 Rating, Deduct	-279.59	
		For Class 54 Rating, Add	386.97	
		For Class 55 Rating, Add	578.22	
		For Class 56 Rating, Add	766.93	
40 05 19 00-2670	EA	6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	3,161.40	317.52
		For Class 52 Rating, Deduct	-294.83	
		For Class 54 Rating, Add	407.82	
		For Class 55 Rating, Add	609.26	
		For Class 56 Rating, Add	808.01	
40 05 19 00-2671	EA	6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	3,305.57	321.22
		For Class 52 Rating, Deduct	-310.08	
		For Class 54 Rating, Add	428.67	
		For Class 55 Rating, Add	640.29	
		For Class 56 Rating, Add	849.09	
40 05 19 00-2672	EA	6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	3,449.75	324.90
		For Class 52 Rating, Deduct	-325.32	
		For Class 54 Rating, Add	449.53	
		For Class 55 Rating, Add	671.33	
		For Class 56 Rating, Add	890.18	
40 05 19 00-2673	EA	6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,		
		Ductile Iron Pipe	3,593.93	328.60
		For Class 52 Rating, Deduct	-340.57	
		For Class 54 Rating, Add	470.38	
		For Class 55 Rating, Add	702.37	
		For Class 56 Rating, Add	931.26	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2674	EA		6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,738.10	332.29
			For Class 52 Rating, Deduct	-355.81	
			For Class 54 Rating, Add	491.24	
			For Class 55 Rating, Add	733.41	
			For Class 56 Rating, Add	972.34	
40 05 19 00-2675	EA		6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,882.29	335.98
			For Class 52 Rating, Deduct	-371.05	
			For Class 54 Rating, Add	512.09	
			For Class 55 Rating, Add	764.45	
			For Class 56 Rating, Add	1,013.43	
40 05 19 00-2676	EA		6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,026.46	339.67
			For Class 52 Rating, Deduct	-386.30	
			For Class 54 Rating, Add	532.95	
			For Class 55 Rating, Add	795.48	
			For Class 56 Rating, Add	1,054.51	
40 05 19 00-2677	EA		6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,170.64	343.37
			For Class 52 Rating, Deduct	-401.54	
			For Class 54 Rating, Add	553.80	
			For Class 55 Rating, Add	826.52	
			For Class 56 Rating, Add	1,095.59	
40 05 19 00-2678	EA		6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,314.82	347.05
			For Class 52 Rating, Deduct	-416.79	
			For Class 54 Rating, Add	574.66	
			For Class 55 Rating, Add	857.56	
			For Class 56 Rating, Add	1,136.68	
40 05 19 00-2679	EA		6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,458.99	350.75
			For Class 52 Rating, Deduct	-432.03	
			For Class 54 Rating, Add	595.51	
			For Class 55 Rating, Add	888.60	
			For Class 56 Rating, Add	1,177.76	
40 05 19 00-2680	EA		6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,603.16	354.44
			For Class 52 Rating, Deduct	-447.27	
			For Class 54 Rating, Add	616.36	
			For Class 55 Rating, Add	919.64	
			For Class 56 Rating, Add	1,218.84	
40 05 19 00-2681	EA		6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,747.35	358.14
			For Class 52 Rating, Deduct	-462.52	
			For Class 54 Rating, Add	637.22	
			For Class 55 Rating, Add	950.68	
			For Class 56 Rating, Add	1,259.93	
40 05 19 00-2682	EA		6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,891.52	361.82
			For Class 52 Rating, Deduct	-477.76	
			For Class 54 Rating, Add	658.07	
			For Class 55 Rating, Add	981.71	
			For Class 56 Rating, Add	1,301.01	
40 05 19 00-2683	EA		6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,035.69	365.52
			For Class 52 Rating, Deduct	-493.01	
			For Class 54 Rating, Add	678.93	
			For Class 55 Rating, Add	1,012.75	
			For Class 56 Rating, Add	1,342.09	
40 05 19 00-2684	EA		6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,179.87	369.21
			For Class 52 Rating, Deduct	-508.25	
			For Class 54 Rating, Add	699.78	
			For Class 55 Rating, Add	1,043.79	
			For Class 56 Rating, Add	1,383.17	
40 05 19 00-2685	EA		6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,324.05	372.90
			For Class 52 Rating, Deduct	-523.50	
			For Class 54 Rating, Add	720.64	
			For Class 55 Rating, Add	1,074.83	
			For Class 56 Rating, Add	1,424.26	
40 05 19 00-2686	EA		6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,468.22	376.59
			For Class 52 Rating, Deduct	-538.74	
			For Class 54 Rating, Add	741.49	
			For Class 55 Rating, Add	1,105.87	
			For Class 56 Rating, Add	1,465.34	
40 05 19 00-2687	EA		6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,612.40	380.29
			For Class 52 Rating, Deduct	-553.98	
			For Class 54 Rating, Add	762.35	
			For Class 55 Rating, Add	1,136.90	
			For Class 56 Rating, Add	1,506.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2688	EA		6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,756.57	383.98
			For Class 52 Rating, Deduct	-569.23	
			For Class 54 Rating, Add	783.20	
			For Class 55 Rating, Add	1,167.94	
			For Class 56 Rating, Add	1,547.51	
40 05 19 00-2689	EA		6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,900.76	387.67
			For Class 52 Rating, Deduct	-584.47	
			For Class 54 Rating, Add	804.06	
			For Class 55 Rating, Add	1,198.98	
			For Class 56 Rating, Add	1,588.59	
40 05 19 00-2690	EA		6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,044.94	391.36
			For Class 52 Rating, Deduct	-599.72	
			For Class 54 Rating, Add	824.91	
			For Class 55 Rating, Add	1,230.02	
			For Class 56 Rating, Add	1,629.68	
40 05 19 00-2691	EA		6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,189.11	395.06
			For Class 52 Rating, Deduct	-614.96	
			For Class 54 Rating, Add	845.76	
			For Class 55 Rating, Add	1,261.06	
			For Class 56 Rating, Add	1,670.76	
40 05 19 00-2692	EA		6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,333.28	398.74
			For Class 52 Rating, Deduct	-630.20	
			For Class 54 Rating, Add	866.62	
			For Class 55 Rating, Add	1,292.09	
			For Class 56 Rating, Add	1,711.84	
40 05 19 00-2693	EA		6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,477.46	402.44
			For Class 52 Rating, Deduct	-645.45	
			For Class 54 Rating, Add	887.47	
			For Class 55 Rating, Add	1,323.13	
			For Class 56 Rating, Add	1,752.92	
40 05 19 00-2694	EA		6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,621.64	406.13
			For Class 52 Rating, Deduct	-660.69	
			For Class 54 Rating, Add	908.33	
			For Class 55 Rating, Add	1,354.17	
			For Class 56 Rating, Add	1,794.01	
40 05 19 00-2695			8" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2696	EA		8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,566.63	339.67
			For Class 52 Rating, Deduct	-115.72	
			For Class 54 Rating, Add	163.97	
			For Class 55 Rating, Add	246.94	
			For Class 56 Rating, Add	328.86	
40 05 19 00-2697	EA		8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,751.74	343.37
			For Class 52 Rating, Deduct	-135.46	
			For Class 54 Rating, Add	190.97	
			For Class 55 Rating, Add	287.11	
			For Class 56 Rating, Add	382.02	
40 05 19 00-2698	EA		8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,936.87	347.05
			For Class 52 Rating, Deduct	-155.21	
			For Class 54 Rating, Add	217.96	
			For Class 55 Rating, Add	327.28	
			For Class 56 Rating, Add	435.18	
40 05 19 00-2699	EA		8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,121.99	350.75
			For Class 52 Rating, Deduct	-174.96	
			For Class 54 Rating, Add	244.96	
			For Class 55 Rating, Add	367.45	
			For Class 56 Rating, Add	488.34	
40 05 19 00-2700	EA		8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,307.11	354.44
			For Class 52 Rating, Deduct	-194.71	
			For Class 54 Rating, Add	271.96	
			For Class 55 Rating, Add	407.62	
			For Class 56 Rating, Add	541.51	
40 05 19 00-2701	EA		8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,492.23	358.14
			For Class 52 Rating, Deduct	-214.46	
			For Class 54 Rating, Add	298.95	
			For Class 55 Rating, Add	447.78	
			For Class 56 Rating, Add	594.67	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2702	EA		8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,677.35	361.82
			For Class 52 Rating, Deduct	-234.20	
			For Class 54 Rating, Add	325.95	
			For Class 55 Rating, Add	487.95	
			For Class 56 Rating, Add	647.83	
40 05 19 00-2703	EA		8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,862.47	365.52
			For Class 52 Rating, Deduct	-253.95	
			For Class 54 Rating, Add	352.94	
			For Class 55 Rating, Add	528.12	
			For Class 56 Rating, Add	700.99	
40 05 19 00-2704	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,047.59	369.21
			For Class 52 Rating, Deduct	-273.70	
			For Class 54 Rating, Add	379.94	
			For Class 55 Rating, Add	568.29	
			For Class 56 Rating, Add	754.15	
40 05 19 00-2705	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,232.71	372.90
			For Class 52 Rating, Deduct	-293.45	
			For Class 54 Rating, Add	406.94	
			For Class 55 Rating, Add	608.46	
			For Class 56 Rating, Add	807.31	
40 05 19 00-2706	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,417.83	376.59
			For Class 52 Rating, Deduct	-313.20	
			For Class 54 Rating, Add	433.93	
			For Class 55 Rating, Add	648.63	
			For Class 56 Rating, Add	860.48	
40 05 19 00-2707	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,602.96	380.29
			For Class 52 Rating, Deduct	-332.94	
			For Class 54 Rating, Add	460.93	
			For Class 55 Rating, Add	688.80	
			For Class 56 Rating, Add	913.64	
40 05 19 00-2708	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,788.07	383.98
			For Class 52 Rating, Deduct	-352.69	
			For Class 54 Rating, Add	487.92	
			For Class 55 Rating, Add	728.97	
			For Class 56 Rating, Add	966.80	
40 05 19 00-2709	EA		8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,973.20	387.67
			For Class 52 Rating, Deduct	-372.44	
			For Class 54 Rating, Add	514.92	
			For Class 55 Rating, Add	769.13	
			For Class 56 Rating, Add	1,019.96	
40 05 19 00-2710	EA		8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,158.33	391.36
			For Class 52 Rating, Deduct	-392.19	
			For Class 54 Rating, Add	541.92	
			For Class 55 Rating, Add	809.30	
			For Class 56 Rating, Add	1,073.13	
40 05 19 00-2711	EA		8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,343.44	395.06
			For Class 52 Rating, Deduct	-411.94	
			For Class 54 Rating, Add	568.91	
			For Class 55 Rating, Add	849.47	
			For Class 56 Rating, Add	1,126.29	
40 05 19 00-2712	EA		8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,528.56	398.74
			For Class 52 Rating, Deduct	-431.68	
			For Class 54 Rating, Add	595.91	
			For Class 55 Rating, Add	889.64	
			For Class 56 Rating, Add	1,179.45	
40 05 19 00-2713	EA		8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,713.69	402.44
			For Class 52 Rating, Deduct	-451.43	
			For Class 54 Rating, Add	622.91	
			For Class 55 Rating, Add	929.81	
			For Class 56 Rating, Add	1,232.61	
40 05 19 00-2714	EA		8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,898.81	406.13
			For Class 52 Rating, Deduct	-471.18	
			For Class 54 Rating, Add	649.90	
			For Class 55 Rating, Add	969.98	
			For Class 56 Rating, Add	1,285.77	
40 05 19 00-2715	EA		8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,083.92	409.83
			For Class 52 Rating, Deduct	-490.93	
			For Class 54 Rating, Add	676.90	
			For Class 55 Rating, Add	1,010.15	
			For Class 56 Rating, Add	1,338.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2716	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	5,269.05	413.51	
		For Class 52 Rating, Deduct	-510.68		
		For Class 54 Rating, Add	703.89		
		For Class 55 Rating, Add	1,050.32		
		For Class 56 Rating, Add	1,392.10		
40 05 19 00-2717	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	5,454.17	417.21	
		For Class 52 Rating, Deduct	-530.42		
		For Class 54 Rating, Add	730.89		
		For Class 55 Rating, Add	1,090.49		
		For Class 56 Rating, Add	1,445.26		
40 05 19 00-2718	EA	8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	5,639.28	420.90	
		For Class 52 Rating, Deduct	-550.17		
		For Class 54 Rating, Add	757.89		
		For Class 55 Rating, Add	1,130.65		
		For Class 56 Rating, Add	1,498.42		
40 05 19 00-2719	EA	8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	5,824.41	424.59	
		For Class 52 Rating, Deduct	-569.92		
		For Class 54 Rating, Add	784.88		
		For Class 55 Rating, Add	1,170.82		
		For Class 56 Rating, Add	1,551.58		
40 05 19 00-2720	EA	8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	6,009.53	428.28	
		For Class 52 Rating, Deduct	-589.67		
		For Class 54 Rating, Add	811.88		
		For Class 55 Rating, Add	1,210.99		
		For Class 56 Rating, Add	1,604.74		
40 05 19 00-2721	EA	8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	6,194.65	431.98	
		For Class 52 Rating, Deduct	-609.42		
		For Class 54 Rating, Add	838.88		
		For Class 55 Rating, Add	1,251.16		
		For Class 56 Rating, Add	1,657.91		
40 05 19 00-2722	EA	8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	6,379.77	435.66	
		For Class 52 Rating, Deduct	-629.16		
		For Class 54 Rating, Add	865.87		
		For Class 55 Rating, Add	1,291.33		
		For Class 56 Rating, Add	1,711.07		
40 05 19 00-2723	EA	8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	6,564.90	439.36	
		For Class 52 Rating, Deduct	-648.91		
		For Class 54 Rating, Add	892.87		
		For Class 55 Rating, Add	1,331.50		
		For Class 56 Rating, Add	1,764.23		
40 05 19 00-2724	EA	8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	6,750.02	443.05	
		For Class 52 Rating, Deduct	-668.66		
		For Class 54 Rating, Add	919.86		
		For Class 55 Rating, Add	1,371.67		
		For Class 56 Rating, Add	1,817.39		
40 05 19 00-2725	EA	8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	6,935.15	446.75	
		For Class 52 Rating, Deduct	-688.41		
		For Class 54 Rating, Add	946.86		
		For Class 55 Rating, Add	1,411.84		
		For Class 56 Rating, Add	1,870.55		
40 05 19 00-2726	EA	8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	7,120.26	450.43	
		For Class 52 Rating, Deduct	-708.16		
		For Class 54 Rating, Add	973.86		
		For Class 55 Rating, Add	1,452.00		
		For Class 56 Rating, Add	1,923.71		
40 05 19 00-2727	EA	8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	7,305.38	454.13	
		For Class 52 Rating, Deduct	-727.90		
		For Class 54 Rating, Add	1,000.85		
		For Class 55 Rating, Add	1,492.17		
		For Class 56 Rating, Add	1,976.88		
40 05 19 00-2728	EA	8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	7,490.51	457.82	
		For Class 52 Rating, Deduct	-747.65		
		For Class 54 Rating, Add	1,027.85		
		For Class 55 Rating, Add	1,532.34		
		For Class 56 Rating, Add	2,030.04		
40 05 19 00-2729	EA	8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	7,675.62	461.51	
		For Class 52 Rating, Deduct	-767.40		
		For Class 54 Rating, Add	1,054.85		
		For Class 55 Rating, Add	1,572.51		
		For Class 56 Rating, Add	2,083.20		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2730	EA		8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,860.74	465.20
			For Class 52 Rating, Deduct	-787.15	
			For Class 54 Rating, Add	1,081.84	
			For Class 55 Rating, Add	1,612.68	
			For Class 56 Rating, Add	2,136.36	
40 05 19 00-2731	EA		8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,045.87	468.90
			For Class 52 Rating, Deduct	-806.90	
			For Class 54 Rating, Add	1,108.84	
			For Class 55 Rating, Add	1,652.85	
			For Class 56 Rating, Add	2,189.53	
40 05 19 00-2732	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,230.99	472.59
			For Class 52 Rating, Deduct	-826.64	
			For Class 54 Rating, Add	1,135.83	
			For Class 55 Rating, Add	1,693.02	
			For Class 56 Rating, Add	2,242.69	
40 05 19 00-2733	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,416.10	476.28
			For Class 52 Rating, Deduct	-846.39	
			For Class 54 Rating, Add	1,162.83	
			For Class 55 Rating, Add	1,733.19	
			For Class 56 Rating, Add	2,295.85	
40 05 19 00-2734	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,601.23	479.97
			For Class 52 Rating, Deduct	-866.14	
			For Class 54 Rating, Add	1,189.83	
			For Class 55 Rating, Add	1,773.36	
			For Class 56 Rating, Add	2,349.01	

40 05 19 00-2735 10" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-2614)

40 05 19 00-2736	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,968.27	413.51
			For Class 52 Rating, Deduct	-147.59	
			For Class 54 Rating, Add	208.78	
			For Class 55 Rating, Add	314.24	
			For Class 56 Rating, Add	418.37	
40 05 19 00-2737	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,206.93	417.21
			For Class 52 Rating, Deduct	-173.23	
			For Class 54 Rating, Add	243.81	
			For Class 55 Rating, Add	366.35	
			For Class 56 Rating, Add	487.32	
40 05 19 00-2738	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,445.59	420.90
			For Class 52 Rating, Deduct	-198.87	
			For Class 54 Rating, Add	278.83	
			For Class 55 Rating, Add	418.46	
			For Class 56 Rating, Add	556.28	
40 05 19 00-2739	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,684.26	424.59
			For Class 52 Rating, Deduct	-224.50	
			For Class 54 Rating, Add	313.86	
			For Class 55 Rating, Add	470.57	
			For Class 56 Rating, Add	625.24	
40 05 19 00-2740	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,922.92	428.28
			For Class 52 Rating, Deduct	-250.14	
			For Class 54 Rating, Add	348.89	
			For Class 55 Rating, Add	522.68	
			For Class 56 Rating, Add	694.19	
40 05 19 00-2741	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,161.58	431.98
			For Class 52 Rating, Deduct	-275.78	
			For Class 54 Rating, Add	383.92	
			For Class 55 Rating, Add	574.79	
			For Class 56 Rating, Add	763.15	
40 05 19 00-2742	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,400.25	435.66
			For Class 52 Rating, Deduct	-301.42	
			For Class 54 Rating, Add	418.94	
			For Class 55 Rating, Add	626.90	
			For Class 56 Rating, Add	832.11	
40 05 19 00-2743	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,638.92	439.36
			For Class 52 Rating, Deduct	-327.05	
			For Class 54 Rating, Add	453.97	
			For Class 55 Rating, Add	679.00	
			For Class 56 Rating, Add	901.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2744	EA	10" Flanged x Grooved (F&G), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	3,877.58	443.05	
		For Class 52 Rating, Deduct	-352.69		
		For Class 54 Rating, Add	489.00		
		For Class 55 Rating, Add	731.11		
		For Class 56 Rating, Add	970.02		
40 05 19 00-2745	EA	10" Flanged x Grooved (F&G), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	4,116.25	446.75	
		For Class 52 Rating, Deduct	-378.33		
		For Class 54 Rating, Add	524.03		
		For Class 55 Rating, Add	783.22		
		For Class 56 Rating, Add	1,038.98		
40 05 19 00-2746	EA	10" Flanged x Grooved (F&G), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	4,354.91	450.43	
		For Class 52 Rating, Deduct	-403.97		
		For Class 54 Rating, Add	559.05		
		For Class 55 Rating, Add	835.33		
		For Class 56 Rating, Add	1,107.94		
40 05 19 00-2747	EA	10" Flanged x Grooved (F&G), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	4,593.57	454.13	
		For Class 52 Rating, Deduct	-429.61		
		For Class 54 Rating, Add	594.08		
		For Class 55 Rating, Add	887.44		
		For Class 56 Rating, Add	1,176.89		
40 05 19 00-2748	EA	10" Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	4,832.24	457.82	
		For Class 52 Rating, Deduct	-455.24		
		For Class 54 Rating, Add	629.11		
		For Class 55 Rating, Add	939.55		
		For Class 56 Rating, Add	1,245.85		
40 05 19 00-2749	EA	10" Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	5,070.90	461.51	
		For Class 52 Rating, Deduct	-480.88		
		For Class 54 Rating, Add	664.14		
		For Class 55 Rating, Add	991.66		
		For Class 56 Rating, Add	1,314.81		
40 05 19 00-2750	EA	10" Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	5,309.57	465.20	
		For Class 52 Rating, Deduct	-506.52		
		For Class 54 Rating, Add	699.17		
		For Class 55 Rating, Add	1,043.77		
		For Class 56 Rating, Add	1,383.77		
40 05 19 00-2751	EA	10" Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	5,548.24	468.90	
		For Class 52 Rating, Deduct	-532.16		
		For Class 54 Rating, Add	734.19		
		For Class 55 Rating, Add	1,095.88		
		For Class 56 Rating, Add	1,452.72		
40 05 19 00-2752	EA	10" Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	5,786.90	472.59	
		For Class 52 Rating, Deduct	-557.79		
		For Class 54 Rating, Add	769.22		
		For Class 55 Rating, Add	1,147.99		
		For Class 56 Rating, Add	1,521.68		
40 05 19 00-2753	EA	10" Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat,			
		Ductile Iron Pipe	6,025.56	476.28	
		For Class 52 Rating, Deduct	-583.43		
		For Class 54 Rating, Add	804.25		
		For Class 55 Rating, Add	1,200.10		
		For Class 56 Rating, Add	1,590.64		
40 05 19 00-2754	EA	10" Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,264.23	479.97	
		For Class 52 Rating, Deduct	-609.07		
		For Class 54 Rating, Add	839.28		
		For Class 55 Rating, Add	1,252.20		
		For Class 56 Rating, Add	1,659.60		
40 05 19 00-2755	EA	10" Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,502.89	483.67	
		For Class 52 Rating, Deduct	-634.71		
		For Class 54 Rating, Add	874.30		
		For Class 55 Rating, Add	1,304.31		
		For Class 56 Rating, Add	1,728.55		
40 05 19 00-2756	EA	10" Flanged x Grooved (F&G), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,741.55	487.35	
		For Class 52 Rating, Deduct	-660.35		
		For Class 54 Rating, Add	909.33		
		For Class 55 Rating, Add	1,356.42		
		For Class 56 Rating, Add	1,797.51		
40 05 19 00-2757	EA	10" Flanged x Grooved (F&G), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,980.23	491.05	
		For Class 52 Rating, Deduct	-685.98		
		For Class 54 Rating, Add	944.36		
		For Class 55 Rating, Add	1,408.53		
		For Class 56 Rating, Add	1,866.47		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2758	EA	10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,218.89		494.74
		For Class 52 Rating, Deduct.....	-711.62		
		For Class 54 Rating, Add.....	979.39		
		For Class 55 Rating, Add.....	1,460.64		
		For Class 56 Rating, Add.....	1,935.42		
40 05 19 00-2759	EA	10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,457.55		498.43
		For Class 52 Rating, Deduct.....	-737.26		
		For Class 54 Rating, Add.....	1,014.41		
		For Class 55 Rating, Add.....	1,512.75		
		For Class 56 Rating, Add.....	2,004.38		
40 05 19 00-2760	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,696.22		502.12
		For Class 52 Rating, Deduct.....	-762.90		
		For Class 54 Rating, Add.....	1,049.44		
		For Class 55 Rating, Add.....	1,564.86		
		For Class 56 Rating, Add.....	2,073.34		
40 05 19 00-2761	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,934.88		505.82
		For Class 52 Rating, Deduct.....	-788.53		
		For Class 54 Rating, Add.....	1,084.47		
		For Class 55 Rating, Add.....	1,616.97		
		For Class 56 Rating, Add.....	2,142.29		
40 05 19 00-2762	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,173.54		509.51
		For Class 52 Rating, Deduct.....	-814.17		
		For Class 54 Rating, Add.....	1,119.50		
		For Class 55 Rating, Add.....	1,669.08		
		For Class 56 Rating, Add.....	2,211.25		
40 05 19 00-2763	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,412.21		513.20
		For Class 52 Rating, Deduct.....	-839.81		
		For Class 54 Rating, Add.....	1,154.53		
		For Class 55 Rating, Add.....	1,721.18		
		For Class 56 Rating, Add.....	2,280.21		
40 05 19 00-2764	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,650.87		516.89
		For Class 52 Rating, Deduct.....	-865.45		
		For Class 54 Rating, Add.....	1,189.55		
		For Class 55 Rating, Add.....	1,773.29		
		For Class 56 Rating, Add.....	2,349.17		
40 05 19 00-2765	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,889.53		520.59
		For Class 52 Rating, Deduct.....	-891.08		
		For Class 54 Rating, Add.....	1,224.58		
		For Class 55 Rating, Add.....	1,825.40		
		For Class 56 Rating, Add.....	2,418.12		
40 05 19 00-2766	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,128.20		524.27
		For Class 52 Rating, Deduct.....	-916.72		
		For Class 54 Rating, Add.....	1,259.61		
		For Class 55 Rating, Add.....	1,877.51		
		For Class 56 Rating, Add.....	2,487.08		
40 05 19 00-2767	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,366.86		527.97
		For Class 52 Rating, Deduct.....	-942.36		
		For Class 54 Rating, Add.....	1,294.64		
		For Class 55 Rating, Add.....	1,929.62		
		For Class 56 Rating, Add.....	2,556.04		
40 05 19 00-2768	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,605.52		531.66
		For Class 52 Rating, Deduct.....	-968.00		
		For Class 54 Rating, Add.....	1,329.66		
		For Class 55 Rating, Add.....	1,981.73		
		For Class 56 Rating, Add.....	2,624.99		
40 05 19 00-2769	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,844.19		535.36
		For Class 52 Rating, Deduct.....	-993.64		
		For Class 54 Rating, Add.....	1,364.69		
		For Class 55 Rating, Add.....	2,033.84		
		For Class 56 Rating, Add.....	2,693.95		
40 05 19 00-2770	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,082.85		539.04
		For Class 52 Rating, Deduct.....	-1,019.27		
		For Class 54 Rating, Add.....	1,399.72		
		For Class 55 Rating, Add.....	2,085.95		
		For Class 56 Rating, Add.....	2,762.91		
40 05 19 00-2771	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,321.52		542.74
		For Class 52 Rating, Deduct.....	-1,044.91		
		For Class 54 Rating, Add.....	1,434.75		
		For Class 55 Rating, Add.....	2,138.06		
		For Class 56 Rating, Add.....	2,831.86		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2772	EA	10"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,560.19	546.43
			For Class 52 Rating, Deduct.....	-1,070.55	
			For Class 54 Rating, Add.....	1,469.77	
			For Class 55 Rating, Add.....	2,190.16	
			For Class 56 Rating, Add.....	2,900.82	
40 05 19 00-2773	EA	10"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,798.85	550.12
			For Class 52 Rating, Deduct.....	-1,096.19	
			For Class 54 Rating, Add.....	1,504.80	
			For Class 55 Rating, Add.....	2,242.27	
			For Class 56 Rating, Add.....	2,969.78	
40 05 19 00-2774	EA	10"	Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,037.51	553.81
			For Class 52 Rating, Deduct.....	-1,121.82	
			For Class 54 Rating, Add.....	1,539.83	
			For Class 55 Rating, Add.....	2,294.38	
			For Class 56 Rating, Add.....	3,038.74	
40 05 19 00-2775 12" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-2776	EA	12"	Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,546.95	516.89
			For Class 52 Rating, Deduct.....	-194.02	
			For Class 54 Rating, Add.....	273.97	
			For Class 55 Rating, Add.....	412.12	
			For Class 56 Rating, Add.....	548.51	
40 05 19 00-2777	EA	12"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,842.30	520.59
			For Class 52 Rating, Deduct.....	-225.89	
			For Class 54 Rating, Add.....	317.50	
			For Class 55 Rating, Add.....	476.87	
			For Class 56 Rating, Add.....	634.19	
40 05 19 00-2778	EA	12"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,137.66	524.27
			For Class 52 Rating, Deduct.....	-257.76	
			For Class 54 Rating, Add.....	361.03	
			For Class 55 Rating, Add.....	541.62	
			For Class 56 Rating, Add.....	719.87	
40 05 19 00-2779	EA	12"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,433.02	527.97
			For Class 52 Rating, Deduct.....	-289.64	
			For Class 54 Rating, Add.....	404.56	
			For Class 55 Rating, Add.....	606.37	
			For Class 56 Rating, Add.....	805.55	
40 05 19 00-2780	EA	12"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,728.37	531.66
			For Class 52 Rating, Deduct.....	-321.51	
			For Class 54 Rating, Add.....	448.09	
			For Class 55 Rating, Add.....	671.12	
			For Class 56 Rating, Add.....	891.23	
40 05 19 00-2781	EA	12"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,023.73	535.36
			For Class 52 Rating, Deduct.....	-353.38	
			For Class 54 Rating, Add.....	491.62	
			For Class 55 Rating, Add.....	735.87	
			For Class 56 Rating, Add.....	976.92	
40 05 19 00-2782	EA	12"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,319.09	539.04
			For Class 52 Rating, Deduct.....	-385.26	
			For Class 54 Rating, Add.....	535.15	
			For Class 55 Rating, Add.....	800.63	
			For Class 56 Rating, Add.....	1,062.60	
40 05 19 00-2783	EA	12"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,614.45	542.74
			For Class 52 Rating, Deduct.....	-417.13	
			For Class 54 Rating, Add.....	578.69	
			For Class 55 Rating, Add.....	865.38	
			For Class 56 Rating, Add.....	1,148.28	
40 05 19 00-2784	EA	12"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,909.81	546.43
			For Class 52 Rating, Deduct.....	-449.01	
			For Class 54 Rating, Add.....	622.22	
			For Class 55 Rating, Add.....	930.13	
			For Class 56 Rating, Add.....	1,233.96	
40 05 19 00-2785	EA	12"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,205.16	550.12
			For Class 52 Rating, Deduct.....	-480.88	
			For Class 54 Rating, Add.....	665.75	
			For Class 55 Rating, Add.....	994.88	
			For Class 56 Rating, Add.....	1,319.64	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2786	EA		12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,500.52	553.81
			For Class 52 Rating, Deduct	-512.76	
			For Class 54 Rating, Add	709.28	
			For Class 55 Rating, Add	1,059.63	
			For Class 56 Rating, Add	1,405.32	
40 05 19 00-2787	EA		12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,795.88	557.51
			For Class 52 Rating, Deduct	-544.63	
			For Class 54 Rating, Add	752.81	
			For Class 55 Rating, Add	1,124.38	
			For Class 56 Rating, Add	1,491.00	
40 05 19 00-2788	EA		12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,091.23	561.20
			For Class 52 Rating, Deduct	-576.50	
			For Class 54 Rating, Add	796.34	
			For Class 55 Rating, Add	1,189.13	
			For Class 56 Rating, Add	1,576.69	
40 05 19 00-2789	EA		12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,386.59	564.89
			For Class 52 Rating, Deduct	-608.38	
			For Class 54 Rating, Add	839.88	
			For Class 55 Rating, Add	1,253.89	
			For Class 56 Rating, Add	1,662.37	
40 05 19 00-2790	EA		12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,681.95	568.58
			For Class 52 Rating, Deduct	-640.25	
			For Class 54 Rating, Add	883.41	
			For Class 55 Rating, Add	1,318.64	
			For Class 56 Rating, Add	1,748.05	
40 05 19 00-2791	EA		12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,977.30	572.28
			For Class 52 Rating, Deduct	-672.12	
			For Class 54 Rating, Add	926.94	
			For Class 55 Rating, Add	1,383.39	
			For Class 56 Rating, Add	1,833.73	
40 05 19 00-2792	EA		12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,272.66	575.96
			For Class 52 Rating, Deduct	-704.00	
			For Class 54 Rating, Add	970.47	
			For Class 55 Rating, Add	1,448.14	
			For Class 56 Rating, Add	1,919.41	
40 05 19 00-2793	EA		12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,568.02	579.66
			For Class 52 Rating, Deduct	-735.87	
			For Class 54 Rating, Add	1,014.00	
			For Class 55 Rating, Add	1,512.89	
			For Class 56 Rating, Add	2,005.09	
40 05 19 00-2794	EA		12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,863.37	583.35
			For Class 52 Rating, Deduct	-767.75	
			For Class 54 Rating, Add	1,057.53	
			For Class 55 Rating, Add	1,577.64	
			For Class 56 Rating, Add	2,090.77	
40 05 19 00-2795	EA		12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,158.73	587.04
			For Class 52 Rating, Deduct	-799.62	
			For Class 54 Rating, Add	1,101.07	
			For Class 55 Rating, Add	1,642.40	
			For Class 56 Rating, Add	2,176.46	
40 05 19 00-2796	EA		12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,454.09	590.73
			For Class 52 Rating, Deduct	-831.49	
			For Class 54 Rating, Add	1,144.60	
			For Class 55 Rating, Add	1,707.15	
			For Class 56 Rating, Add	2,262.14	
40 05 19 00-2797	EA		12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,749.45	594.43
			For Class 52 Rating, Deduct	-863.37	
			For Class 54 Rating, Add	1,188.13	
			For Class 55 Rating, Add	1,771.90	
			For Class 56 Rating, Add	2,347.82	
40 05 19 00-2798	EA		12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,044.81	598.12
			For Class 52 Rating, Deduct	-895.24	
			For Class 54 Rating, Add	1,231.66	
			For Class 55 Rating, Add	1,836.65	
			For Class 56 Rating, Add	2,433.50	
40 05 19 00-2799	EA		12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,340.17	601.81
			For Class 52 Rating, Deduct	-927.12	
			For Class 54 Rating, Add	1,275.19	
			For Class 55 Rating, Add	1,901.40	
			For Class 56 Rating, Add	2,519.18	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2800	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	9,635.52	605.50	
		For Class 52 Rating, Deduct	-958.99		
		For Class 54 Rating, Add	1,318.72		
		For Class 55 Rating, Add	1,966.15		
		For Class 56 Rating, Add	2,604.86		
40 05 19 00-2801	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	9,930.88	609.20	
		For Class 52 Rating, Deduct	-990.86		
		For Class 54 Rating, Add	1,362.26		
		For Class 55 Rating, Add	2,030.91		
		For Class 56 Rating, Add	2,690.55		
40 05 19 00-2802	EA	12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,226.24	612.88	
		For Class 52 Rating, Deduct	-1,022.74		
		For Class 54 Rating, Add	1,405.79		
		For Class 55 Rating, Add	2,095.66		
		For Class 56 Rating, Add	2,776.23		
40 05 19 00-2803	EA	12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,521.59	616.58	
		For Class 52 Rating, Deduct	-1,054.61		
		For Class 54 Rating, Add	1,449.32		
		For Class 55 Rating, Add	2,160.41		
		For Class 56 Rating, Add	2,861.91		
40 05 19 00-2804	EA	12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,816.95	620.27	
		For Class 52 Rating, Deduct	-1,086.49		
		For Class 54 Rating, Add	1,492.85		
		For Class 55 Rating, Add	2,225.16		
		For Class 56 Rating, Add	2,947.59		
40 05 19 00-2805	EA	12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,112.31	623.97	
		For Class 52 Rating, Deduct	-1,118.36		
		For Class 54 Rating, Add	1,536.38		
		For Class 55 Rating, Add	2,289.91		
		For Class 56 Rating, Add	3,033.27		
40 05 19 00-2806	EA	12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,407.66	627.65	
		For Class 52 Rating, Deduct	-1,150.23		
		For Class 54 Rating, Add	1,579.91		
		For Class 55 Rating, Add	2,354.66		
		For Class 56 Rating, Add	3,118.95		
40 05 19 00-2807	EA	12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,703.02	631.35	
		For Class 52 Rating, Deduct	-1,182.11		
		For Class 54 Rating, Add	1,623.44		
		For Class 55 Rating, Add	2,419.41		
		For Class 56 Rating, Add	3,204.64		
40 05 19 00-2808	EA	12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,998.38	635.04	
		For Class 52 Rating, Deduct	-1,213.98		
		For Class 54 Rating, Add	1,666.98		
		For Class 55 Rating, Add	2,484.16		
		For Class 56 Rating, Add	3,290.32		
40 05 19 00-2809	EA	12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,293.73	638.73	
		For Class 52 Rating, Deduct	-1,245.86		
		For Class 54 Rating, Add	1,710.51		
		For Class 55 Rating, Add	2,548.92		
		For Class 56 Rating, Add	3,376.00		
40 05 19 00-2810	EA	12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,589.08	642.42	
		For Class 52 Rating, Deduct	-1,277.73		
		For Class 54 Rating, Add	1,754.04		
		For Class 55 Rating, Add	2,613.67		
		For Class 56 Rating, Add	3,461.68		
40 05 19 00-2811	EA	12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,884.46	646.12	
		For Class 52 Rating, Deduct	-1,309.60		
		For Class 54 Rating, Add	1,797.57		
		For Class 55 Rating, Add	2,678.42		
		For Class 56 Rating, Add	3,547.36		
40 05 19 00-2812	EA	12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	13,179.81	649.80	
		For Class 52 Rating, Deduct	-1,341.48		
		For Class 54 Rating, Add	1,841.10		
		For Class 55 Rating, Add	2,743.17		
		For Class 56 Rating, Add	3,633.04		
40 05 19 00-2813	EA	12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	13,475.16	653.50	
		For Class 52 Rating, Deduct	-1,373.35		
		For Class 54 Rating, Add	1,884.63		
		For Class 55 Rating, Add	2,807.92		
		For Class 56 Rating, Add	3,718.72		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 19 00-2814	EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,770.53		657.19	
	For Class 52 Rating, Deduct	-1,405.23			
	For Class 54 Rating, Add	1,928.17			
	For Class 55 Rating, Add	2,872.67			
	For Class 56 Rating, Add	3,804.41			
40 05 19 00-2815 14" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-2816	EA 14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,541.37		620.27	
	For Class 52 Rating, Deduct	-286.17			
	For Class 54 Rating, Add	401.51			
	For Class 55 Rating, Add	602.71			
	For Class 56 Rating, Add	801.30			
40 05 19 00-2817	EA 14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,899.72		623.97	
	For Class 52 Rating, Deduct	-324.98			
	For Class 54 Rating, Add	454.49			
	For Class 55 Rating, Add	681.50			
	For Class 56 Rating, Add	905.56			
40 05 19 00-2818	EA 14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,258.07		627.65	
	For Class 52 Rating, Deduct	-363.78			
	For Class 54 Rating, Add	507.47			
	For Class 55 Rating, Add	760.30			
	For Class 56 Rating, Add	1,009.82			
40 05 19 00-2819	EA 14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,616.42		631.35	
	For Class 52 Rating, Deduct	-402.58			
	For Class 54 Rating, Add	560.45			
	For Class 55 Rating, Add	839.10			
	For Class 56 Rating, Add	1,114.09			
40 05 19 00-2820	EA 14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,974.77		635.04	
	For Class 52 Rating, Deduct	-441.38			
	For Class 54 Rating, Add	613.43			
	For Class 55 Rating, Add	917.90			
	For Class 56 Rating, Add	1,218.35			
40 05 19 00-2821	EA 14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,333.12		638.73	
	For Class 52 Rating, Deduct	-480.19			
	For Class 54 Rating, Add	666.42			
	For Class 55 Rating, Add	996.70			
	For Class 56 Rating, Add	1,322.62			
40 05 19 00-2822	EA 14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,691.46		642.42	
	For Class 52 Rating, Deduct	-518.99			
	For Class 54 Rating, Add	719.40			
	For Class 55 Rating, Add	1,075.50			
	For Class 56 Rating, Add	1,426.88			
40 05 19 00-2823	EA 14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,049.83		646.12	
	For Class 52 Rating, Deduct	-557.79			
	For Class 54 Rating, Add	772.38			
	For Class 55 Rating, Add	1,154.30			
	For Class 56 Rating, Add	1,531.15			
40 05 19 00-2824	EA 14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,408.17		649.80	
	For Class 52 Rating, Deduct	-596.60			
	For Class 54 Rating, Add	825.36			
	For Class 55 Rating, Add	1,233.09			
	For Class 56 Rating, Add	1,635.41			
40 05 19 00-2825	EA 14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,766.52		653.50	
	For Class 52 Rating, Deduct	-635.40			
	For Class 54 Rating, Add	878.34			
	For Class 55 Rating, Add	1,311.89			
	For Class 56 Rating, Add	1,739.67			
40 05 19 00-2826	EA 14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,124.87		657.19	
	For Class 52 Rating, Deduct	-674.20			
	For Class 54 Rating, Add	931.32			
	For Class 55 Rating, Add	1,390.69			
	For Class 56 Rating, Add	1,843.94			
40 05 19 00-2827	EA 14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,483.22		660.89	
	For Class 52 Rating, Deduct	-713.01			
	For Class 54 Rating, Add	984.30			
	For Class 55 Rating, Add	1,469.49			
	For Class 56 Rating, Add	1,948.20			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2828	EA		14" Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,841.56	664.57
			For Class 52 Rating, Deduct	-751.61	
			For Class 54 Rating, Add	1,037.28	
			For Class 55 Rating, Add	1,548.29	
			For Class 56 Rating, Add	2,052.47	
40 05 19 00-2829	EA		14" Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,199.92	668.27
			For Class 52 Rating, Deduct	-790.61	
			For Class 54 Rating, Add	1,090.26	
			For Class 55 Rating, Add	1,627.09	
			For Class 56 Rating, Add	2,156.73	
40 05 19 00-2830	EA		14" Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,558.26	671.96
			For Class 52 Rating, Deduct	-829.42	
			For Class 54 Rating, Add	1,143.24	
			For Class 55 Rating, Add	1,705.89	
			For Class 56 Rating, Add	2,260.99	
40 05 19 00-2831	EA		14" Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,916.61	675.65
			For Class 52 Rating, Deduct	-868.22	
			For Class 54 Rating, Add	1,196.22	
			For Class 55 Rating, Add	1,784.69	
			For Class 56 Rating, Add	2,365.26	
40 05 19 00-2832	EA		14" Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,274.96	679.34
			For Class 52 Rating, Deduct	-907.02	
			For Class 54 Rating, Add	1,249.20	
			For Class 55 Rating, Add	1,863.48	
			For Class 56 Rating, Add	2,469.52	
40 05 19 00-2833	EA		14" Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,633.31	683.04
			For Class 52 Rating, Deduct	-945.83	
			For Class 54 Rating, Add	1,302.18	
			For Class 55 Rating, Add	1,942.28	
			For Class 56 Rating, Add	2,573.79	
40 05 19 00-2834	EA		14" Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,991.65	686.73
			For Class 52 Rating, Deduct	-984.63	
			For Class 54 Rating, Add	1,355.16	
			For Class 55 Rating, Add	2,021.08	
			For Class 56 Rating, Add	2,678.05	
40 05 19 00-2835	EA		14" Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,350.01	690.42
			For Class 52 Rating, Deduct	-1,023.43	
			For Class 54 Rating, Add	1,408.14	
			For Class 55 Rating, Add	2,099.88	
			For Class 56 Rating, Add	2,782.32	
40 05 19 00-2836	EA		14" Flanged x Grooved (F&G), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,708.35	694.11
			For Class 52 Rating, Deduct	-1,062.23	
			For Class 54 Rating, Add	1,461.12	
			For Class 55 Rating, Add	2,178.68	
			For Class 56 Rating, Add	2,886.58	
40 05 19 00-2837	EA		14" Flanged x Grooved (F&G), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,066.72	697.81
			For Class 52 Rating, Deduct	-1,101.04	
			For Class 54 Rating, Add	1,514.10	
			For Class 55 Rating, Add	2,257.48	
			For Class 56 Rating, Add	2,990.84	
40 05 19 00-2838	EA		14" Flanged x Grooved (F&G), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,425.06	701.49
			For Class 52 Rating, Deduct	-1,139.84	
			For Class 54 Rating, Add	1,567.08	
			For Class 55 Rating, Add	2,336.28	
			For Class 56 Rating, Add	3,095.11	
40 05 19 00-2839	EA		14" Flanged x Grooved (F&G), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,783.41	705.19
			For Class 52 Rating, Deduct	-1,178.64	
			For Class 54 Rating, Add	1,620.06	
			For Class 55 Rating, Add	2,415.07	
			For Class 56 Rating, Add	3,199.37	
40 05 19 00-2840	EA		14" Flanged x Grooved (F&G), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,141.76	708.88
			For Class 52 Rating, Deduct	-1,217.45	
			For Class 54 Rating, Add	1,673.04	
			For Class 55 Rating, Add	2,493.87	
			For Class 56 Rating, Add	3,303.64	
40 05 19 00-2841	EA		14" Flanged x Grooved (F&G), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,500.11	712.58
			For Class 52 Rating, Deduct	-1,256.25	
			For Class 54 Rating, Add	1,726.02	
			For Class 55 Rating, Add	2,572.67	
			For Class 56 Rating, Add	3,407.90	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2842	EA		14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,858.45	716.26
			For Class 52 Rating, Deduct.....	-1,295.05	
			For Class 54 Rating, Add.....	1,779.00	
			For Class 55 Rating, Add.....	2,651.47	
			For Class 56 Rating, Add.....	3,512.16	
40 05 19 00-2843	EA		14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,216.81	719.96
			For Class 52 Rating, Deduct.....	-1,333.86	
			For Class 54 Rating, Add.....	1,831.98	
			For Class 55 Rating, Add.....	2,730.27	
			For Class 56 Rating, Add.....	3,616.43	
40 05 19 00-2844	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,575.16	723.65
			For Class 52 Rating, Deduct.....	-1,372.66	
			For Class 54 Rating, Add.....	1,884.97	
			For Class 55 Rating, Add.....	2,809.07	
			For Class 56 Rating, Add.....	3,720.69	
40 05 19 00-2845	EA		14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,933.50	727.34
			For Class 52 Rating, Deduct.....	-1,411.46	
			For Class 54 Rating, Add.....	1,937.94	
			For Class 55 Rating, Add.....	2,887.87	
			For Class 56 Rating, Add.....	3,824.96	
40 05 19 00-2846	EA		14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,291.86	731.03
			For Class 52 Rating, Deduct.....	-1,450.27	
			For Class 54 Rating, Add.....	1,990.93	
			For Class 55 Rating, Add.....	2,966.67	
			For Class 56 Rating, Add.....	3,929.22	
40 05 19 00-2847	EA		14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,650.20	734.73
			For Class 52 Rating, Deduct.....	-1,489.07	
			For Class 54 Rating, Add.....	2,043.91	
			For Class 55 Rating, Add.....	3,045.46	
			For Class 56 Rating, Add.....	4,033.49	
40 05 19 00-2848	EA		14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,008.55	738.41
			For Class 52 Rating, Deduct.....	-1,527.87	
			For Class 54 Rating, Add.....	2,096.89	
			For Class 55 Rating, Add.....	3,124.26	
			For Class 56 Rating, Add.....	4,137.75	
40 05 19 00-2849	EA		14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,366.90	742.11
			For Class 52 Rating, Deduct.....	-1,566.67	
			For Class 54 Rating, Add.....	2,149.87	
			For Class 55 Rating, Add.....	3,203.06	
			For Class 56 Rating, Add.....	4,242.01	
40 05 19 00-2850	EA		14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,725.25	745.80
			For Class 52 Rating, Deduct.....	-1,605.48	
			For Class 54 Rating, Add.....	2,202.85	
			For Class 55 Rating, Add.....	3,281.86	
			For Class 56 Rating, Add.....	4,346.28	
40 05 19 00-2851	EA		14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,083.60	749.50
			For Class 52 Rating, Deduct.....	-1,644.28	
			For Class 54 Rating, Add.....	2,255.83	
			For Class 55 Rating, Add.....	3,360.66	
			For Class 56 Rating, Add.....	4,460.54	
40 05 19 00-2852	EA		14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,441.96	753.18
			For Class 52 Rating, Deduct.....	-1,683.08	
			For Class 54 Rating, Add.....	2,308.81	
			For Class 55 Rating, Add.....	3,439.46	
			For Class 56 Rating, Add.....	4,554.81	
40 05 19 00-2853	EA		14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,800.30	756.88
			For Class 52 Rating, Deduct.....	-1,721.89	
			For Class 54 Rating, Add.....	2,361.79	
			For Class 55 Rating, Add.....	3,518.26	
			For Class 56 Rating, Add.....	4,659.07	
40 05 19 00-2854			16" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2855	EA		16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,144.93	708.88
			For Class 52 Rating, Deduct.....	-337.79	
			For Class 54 Rating, Add.....	473.52	
			For Class 55 Rating, Add.....	710.58	
			For Class 56 Rating, Add.....	944.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2856	EA		16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,559.97	712.58
			For Class 52 Rating, Deduct	-382.83	
			For Class 54 Rating, Add	535.00	
			For Class 55 Rating, Add	802.02	
			For Class 56 Rating, Add	1,065.56	
40 05 19 00-2857	EA		16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,975.01	716.26
			For Class 52 Rating, Deduct	-427.87	
			For Class 54 Rating, Add	596.49	
			For Class 55 Rating, Add	893.46	
			For Class 56 Rating, Add	1,186.55	
40 05 19 00-2858	EA		16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,390.05	719.96
			For Class 52 Rating, Deduct	-472.91	
			For Class 54 Rating, Add	657.97	
			For Class 55 Rating, Add	984.90	
			For Class 56 Rating, Add	1,307.53	
40 05 19 00-2859	EA		16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,805.09	723.65
			For Class 52 Rating, Deduct	-517.95	
			For Class 54 Rating, Add	719.45	
			For Class 55 Rating, Add	1,076.34	
			For Class 56 Rating, Add	1,428.52	
40 05 19 00-2860	EA		16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,220.13	727.34
			For Class 52 Rating, Deduct	-562.99	
			For Class 54 Rating, Add	780.94	
			For Class 55 Rating, Add	1,167.79	
			For Class 56 Rating, Add	1,549.51	
40 05 19 00-2861	EA		16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,635.18	731.03
			For Class 52 Rating, Deduct	-608.03	
			For Class 54 Rating, Add	842.42	
			For Class 55 Rating, Add	1,259.23	
			For Class 56 Rating, Add	1,670.50	
40 05 19 00-2862	EA		16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,050.22	734.73
			For Class 52 Rating, Deduct	-653.07	
			For Class 54 Rating, Add	903.91	
			For Class 55 Rating, Add	1,350.67	
			For Class 56 Rating, Add	1,791.49	
40 05 19 00-2863	EA		16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,465.25	738.41
			For Class 52 Rating, Deduct	-698.11	
			For Class 54 Rating, Add	965.39	
			For Class 55 Rating, Add	1,442.11	
			For Class 56 Rating, Add	1,912.48	
40 05 19 00-2864	EA		16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,880.30	742.11
			For Class 52 Rating, Deduct	-743.15	
			For Class 54 Rating, Add	1,026.88	
			For Class 55 Rating, Add	1,533.55	
			For Class 56 Rating, Add	2,033.47	
40 05 19 00-2865	EA		16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,295.34	745.80
			For Class 52 Rating, Deduct	-788.19	
			For Class 54 Rating, Add	1,088.36	
			For Class 55 Rating, Add	1,624.99	
			For Class 56 Rating, Add	2,154.46	
40 05 19 00-2866	EA		16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,710.39	749.50
			For Class 52 Rating, Deduct	-833.23	
			For Class 54 Rating, Add	1,149.85	
			For Class 55 Rating, Add	1,716.43	
			For Class 56 Rating, Add	2,275.44	
40 05 19 00-2867	EA		16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,125.44	753.18
			For Class 52 Rating, Deduct	-878.27	
			For Class 54 Rating, Add	1,211.33	
			For Class 55 Rating, Add	1,807.87	
			For Class 56 Rating, Add	2,396.43	
40 05 19 00-2868	EA		16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,540.47	756.88
			For Class 52 Rating, Deduct	-923.30	
			For Class 54 Rating, Add	1,272.81	
			For Class 55 Rating, Add	1,899.31	
			For Class 56 Rating, Add	2,517.42	
40 05 19 00-2869	EA		16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,955.51	760.57
			For Class 52 Rating, Deduct	-968.34	
			For Class 54 Rating, Add	1,334.30	
			For Class 55 Rating, Add	1,990.76	
			For Class 56 Rating, Add	2,638.41	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2870	EA		16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,370.56	764.26
			For Class 52 Rating, Deduct	-1,013.38	
			For Class 54 Rating, Add	1,395.78	
			For Class 55 Rating, Add	2,082.20	
			For Class 56 Rating, Add	2,759.40	
40 05 19 00-2871	EA		16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,785.60	767.95
			For Class 52 Rating, Deduct	-1,058.42	
			For Class 54 Rating, Add	1,457.27	
			For Class 55 Rating, Add	2,173.64	
			For Class 56 Rating, Add	2,880.39	
40 05 19 00-2872	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,200.64	771.65
			For Class 52 Rating, Deduct	-1,103.46	
			For Class 54 Rating, Add	1,518.75	
			For Class 55 Rating, Add	2,265.08	
			For Class 56 Rating, Add	3,001.38	
40 05 19 00-2873	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,615.68	775.34
			For Class 52 Rating, Deduct	-1,148.50	
			For Class 54 Rating, Add	1,580.24	
			For Class 55 Rating, Add	2,356.52	
			For Class 56 Rating, Add	3,122.36	
40 05 19 00-2874	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,030.72	779.03
			For Class 52 Rating, Deduct	-1,193.54	
			For Class 54 Rating, Add	1,641.72	
			For Class 55 Rating, Add	2,447.96	
			For Class 56 Rating, Add	3,243.35	
40 05 19 00-2875	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,445.76	782.72
			For Class 52 Rating, Deduct	-1,238.58	
			For Class 54 Rating, Add	1,703.20	
			For Class 55 Rating, Add	2,539.40	
			For Class 56 Rating, Add	3,364.34	
40 05 19 00-2876	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,860.81	786.42
			For Class 52 Rating, Deduct	-1,283.62	
			For Class 54 Rating, Add	1,764.69	
			For Class 55 Rating, Add	2,630.84	
			For Class 56 Rating, Add	3,485.33	
40 05 19 00-2877	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,275.85	790.10
			For Class 52 Rating, Deduct	-1,328.66	
			For Class 54 Rating, Add	1,826.17	
			For Class 55 Rating, Add	2,722.29	
			For Class 56 Rating, Add	3,606.32	
40 05 19 00-2878	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,690.88	793.80
			For Class 52 Rating, Deduct	-1,373.70	
			For Class 54 Rating, Add	1,887.66	
			For Class 55 Rating, Add	2,813.72	
			For Class 56 Rating, Add	3,727.31	
40 05 19 00-2879	EA		16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,105.93	797.49
			For Class 52 Rating, Deduct	-1,418.74	
			For Class 54 Rating, Add	1,949.14	
			For Class 55 Rating, Add	2,905.17	
			For Class 56 Rating, Add	3,848.29	
40 05 19 00-2880	EA		16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,520.98	801.18
			For Class 52 Rating, Deduct	-1,463.78	
			For Class 54 Rating, Add	2,010.63	
			For Class 55 Rating, Add	2,996.61	
			For Class 56 Rating, Add	3,969.28	
40 05 19 00-2881	EA		16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,936.02	804.87
			For Class 52 Rating, Deduct	-1,508.82	
			For Class 54 Rating, Add	2,072.11	
			For Class 55 Rating, Add	3,088.05	
			For Class 56 Rating, Add	4,090.27	
40 05 19 00-2882	EA		16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,351.07	808.57
			For Class 52 Rating, Deduct	-1,553.86	
			For Class 54 Rating, Add	2,133.60	
			For Class 55 Rating, Add	3,179.49	
			For Class 56 Rating, Add	4,211.26	
40 05 19 00-2883	EA		16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,766.10	812.26
			For Class 52 Rating, Deduct	-1,598.89	
			For Class 54 Rating, Add	2,195.08	
			For Class 55 Rating, Add	3,270.93	
			For Class 56 Rating, Add	4,332.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2884	EA	16"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,181.14	815.95
			For Class 52 Rating, Deduct.....	-1,643.93	
			For Class 54 Rating, Add.....	2,256.56	
			For Class 55 Rating, Add.....	3,362.37	
			For Class 56 Rating, Add.....	4,453.24	
40 05 19 00-2885	EA	16"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,596.19	819.64
			For Class 52 Rating, Deduct.....	-1,688.97	
			For Class 54 Rating, Add.....	2,318.05	
			For Class 55 Rating, Add.....	3,453.81	
			For Class 56 Rating, Add.....	4,574.23	
40 05 19 00-2886	EA	16"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,011.23	823.34
			For Class 52 Rating, Deduct.....	-1,734.01	
			For Class 54 Rating, Add.....	2,379.53	
			For Class 55 Rating, Add.....	3,545.26	
			For Class 56 Rating, Add.....	4,695.22	
40 05 19 00-2887	EA	16"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,426.27	827.02
			For Class 52 Rating, Deduct.....	-1,779.05	
			For Class 54 Rating, Add.....	2,441.02	
			For Class 55 Rating, Add.....	3,636.70	
			For Class 56 Rating, Add.....	4,816.20	
40 05 19 00-2888	EA	16"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,841.31	830.72
			For Class 52 Rating, Deduct.....	-1,824.09	
			For Class 54 Rating, Add.....	2,502.50	
			For Class 55 Rating, Add.....	3,728.14	
			For Class 56 Rating, Add.....	4,937.19	
40 05 19 00-2889	EA	16"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,256.35	834.41
			For Class 52 Rating, Deduct.....	-1,869.13	
			For Class 54 Rating, Add.....	2,563.98	
			For Class 55 Rating, Add.....	3,819.58	
			For Class 56 Rating, Add.....	5,058.18	
40 05 19 00-2890	EA	16"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,671.39	838.11
			For Class 52 Rating, Deduct.....	-1,914.17	
			For Class 54 Rating, Add.....	2,625.47	
			For Class 55 Rating, Add.....	3,911.02	
			For Class 56 Rating, Add.....	5,179.17	
40 05 19 00-2891	EA	16"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,086.44	841.79
			For Class 52 Rating, Deduct.....	-1,959.21	
			For Class 54 Rating, Add.....	2,686.95	
			For Class 55 Rating, Add.....	4,002.46	
			For Class 56 Rating, Add.....	5,300.16	
40 05 19 00-2892	EA	16"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,501.48	845.49
			For Class 52 Rating, Deduct.....	-2,004.25	
			For Class 54 Rating, Add.....	2,748.44	
			For Class 55 Rating, Add.....	4,093.90	
			For Class 56 Rating, Add.....	5,421.15	
40 05 19 00-2893			18" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2894	EA	18"	Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,848.35	798.98
			For Class 52 Rating, Deduct.....	-400.16	
			For Class 54 Rating, Add.....	560.20	
			For Class 55 Rating, Add.....	840.28	
			For Class 56 Rating, Add.....	1,116.73	
40 05 19 00-2895	EA	18"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,326.38	802.66
			For Class 52 Rating, Deduct.....	-452.13	
			For Class 54 Rating, Add.....	631.13	
			For Class 55 Rating, Add.....	945.77	
			For Class 56 Rating, Add.....	1,256.30	
40 05 19 00-2896	EA	18"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,804.42	806.36
			For Class 52 Rating, Deduct.....	-504.09	
			For Class 54 Rating, Add.....	702.06	
			For Class 55 Rating, Add.....	1,051.26	
			For Class 56 Rating, Add.....	1,395.87	
40 05 19 00-2897	EA	18"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,282.45	810.05
			For Class 52 Rating, Deduct.....	-556.06	
			For Class 54 Rating, Add.....	772.99	
			For Class 55 Rating, Add.....	1,156.75	
			For Class 56 Rating, Add.....	1,535.44	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2898	EA		18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,760.48	813.74
			For Class 52 Rating, Deduct	-608.03	
			For Class 54 Rating, Add	843.93	
			For Class 55 Rating, Add	1,262.23	
			For Class 56 Rating, Add	1,675.01	
40 05 19 00-2899	EA		18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,238.52	817.43
			For Class 52 Rating, Deduct	-660.00	
			For Class 54 Rating, Add	914.86	
			For Class 55 Rating, Add	1,367.72	
			For Class 56 Rating, Add	1,814.58	
40 05 19 00-2900	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,716.55	821.13
			For Class 52 Rating, Deduct	-711.97	
			For Class 54 Rating, Add	985.79	
			For Class 55 Rating, Add	1,473.21	
			For Class 56 Rating, Add	1,954.16	
40 05 19 00-2901	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,194.58	824.82
			For Class 52 Rating, Deduct	-763.94	
			For Class 54 Rating, Add	1,056.73	
			For Class 55 Rating, Add	1,578.70	
			For Class 56 Rating, Add	2,093.73	
40 05 19 00-2902	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,672.62	828.51
			For Class 52 Rating, Deduct	-815.90	
			For Class 54 Rating, Add	1,127.66	
			For Class 55 Rating, Add	1,684.19	
			For Class 56 Rating, Add	2,233.30	
40 05 19 00-2903	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,150.66	832.20
			For Class 52 Rating, Deduct	-867.87	
			For Class 54 Rating, Add	1,198.59	
			For Class 55 Rating, Add	1,789.68	
			For Class 56 Rating, Add	2,372.87	
40 05 19 00-2904	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,628.69	835.90
			For Class 52 Rating, Deduct	-919.84	
			For Class 54 Rating, Add	1,269.53	
			For Class 55 Rating, Add	1,895.16	
			For Class 56 Rating, Add	2,512.44	
40 05 19 00-2905	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,106.73	839.58
			For Class 52 Rating, Deduct	-971.81	
			For Class 54 Rating, Add	1,340.46	
			For Class 55 Rating, Add	2,000.65	
			For Class 56 Rating, Add	2,652.01	
40 05 19 00-2906	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,584.76	843.28
			For Class 52 Rating, Deduct	-1,023.78	
			For Class 54 Rating, Add	1,411.39	
			For Class 55 Rating, Add	2,106.14	
			For Class 56 Rating, Add	2,791.58	
40 05 19 00-2907	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,062.79	846.97
			For Class 52 Rating, Deduct	-1,075.75	
			For Class 54 Rating, Add	1,482.33	
			For Class 55 Rating, Add	2,211.63	
			For Class 56 Rating, Add	2,931.15	
40 05 19 00-2908	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,540.83	850.66
			For Class 52 Rating, Deduct	-1,127.71	
			For Class 54 Rating, Add	1,553.26	
			For Class 55 Rating, Add	2,317.12	
			For Class 56 Rating, Add	3,070.72	
40 05 19 00-2909	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,018.86	854.35
			For Class 52 Rating, Deduct	-1,179.68	
			For Class 54 Rating, Add	1,624.19	
			For Class 55 Rating, Add	2,422.61	
			For Class 56 Rating, Add	3,210.30	
40 05 19 00-2910	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,496.89	858.05
			For Class 52 Rating, Deduct	-1,231.65	
			For Class 54 Rating, Add	1,695.13	
			For Class 55 Rating, Add	2,528.09	
			For Class 56 Rating, Add	3,349.87	
40 05 19 00-2911	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,974.93	861.74
			For Class 52 Rating, Deduct	-1,283.62	
			For Class 54 Rating, Add	1,766.06	
			For Class 55 Rating, Add	2,633.58	
			For Class 56 Rating, Add	3,489.44	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2912	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	13,452.96	865.43	
		For Class 52 Rating, Deduct	-1,335.59		
		For Class 54 Rating, Add	1,836.99		
		For Class 55 Rating, Add	2,739.07		
		For Class 56 Rating, Add	3,629.01		
40 05 19 00-2913	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	13,930.99	869.12	
		For Class 52 Rating, Deduct	-1,387.56		
		For Class 54 Rating, Add	1,907.92		
		For Class 55 Rating, Add	2,844.56		
		For Class 56 Rating, Add	3,768.58		
40 05 19 00-2914	EA	18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	14,409.03	872.82	
		For Class 52 Rating, Deduct	-1,439.52		
		For Class 54 Rating, Add	1,978.86		
		For Class 55 Rating, Add	2,950.05		
		For Class 56 Rating, Add	3,908.15		
40 05 19 00-2915	EA	18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	14,887.06	876.50	
		For Class 52 Rating, Deduct	-1,491.49		
		For Class 54 Rating, Add	2,049.79		
		For Class 55 Rating, Add	3,055.54		
		For Class 56 Rating, Add	4,047.72		
40 05 19 00-2916	EA	18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	15,365.09	880.20	
		For Class 52 Rating, Deduct	-1,543.46		
		For Class 54 Rating, Add	2,120.72		
		For Class 55 Rating, Add	3,161.02		
		For Class 56 Rating, Add	4,187.29		
40 05 19 00-2917	EA	18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	15,843.14	883.89	
		For Class 52 Rating, Deduct	-1,595.43		
		For Class 54 Rating, Add	2,191.66		
		For Class 55 Rating, Add	3,266.51		
		For Class 56 Rating, Add	4,326.87		
40 05 19 00-2918	EA	18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	16,321.17	887.59	
		For Class 52 Rating, Deduct	-1,647.40		
		For Class 54 Rating, Add	2,262.59		
		For Class 55 Rating, Add	3,372.00		
		For Class 56 Rating, Add	4,466.44		
40 05 19 00-2919	EA	18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	16,799.20	891.27	
		For Class 52 Rating, Deduct	-1,699.37		
		For Class 54 Rating, Add	2,333.52		
		For Class 55 Rating, Add	3,477.49		
		For Class 56 Rating, Add	4,606.01		
40 05 19 00-2920	EA	18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	17,277.24	894.97	
		For Class 52 Rating, Deduct	-1,751.34		
		For Class 54 Rating, Add	2,404.46		
		For Class 55 Rating, Add	3,582.98		
		For Class 56 Rating, Add	4,745.58		
40 05 19 00-2921	EA	18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	17,755.27	898.66	
		For Class 52 Rating, Deduct	-1,803.30		
		For Class 54 Rating, Add	2,475.39		
		For Class 55 Rating, Add	3,688.47		
		For Class 56 Rating, Add	4,885.15		
40 05 19 00-2922	EA	18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	18,233.30	902.35	
		For Class 52 Rating, Deduct	-1,855.27		
		For Class 54 Rating, Add	2,546.32		
		For Class 55 Rating, Add	3,793.96		
		For Class 56 Rating, Add	5,024.72		
40 05 19 00-2923	EA	18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	18,711.34	906.04	
		For Class 52 Rating, Deduct	-1,907.24		
		For Class 54 Rating, Add	2,617.26		
		For Class 55 Rating, Add	3,899.44		
		For Class 56 Rating, Add	5,164.29		
40 05 19 00-2924	EA	18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	19,189.37	909.74	
		For Class 52 Rating, Deduct	-1,959.21		
		For Class 54 Rating, Add	2,688.19		
		For Class 55 Rating, Add	4,004.93		
		For Class 56 Rating, Add	5,303.86		
40 05 19 00-2925	EA	18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	19,667.40	913.42	
		For Class 52 Rating, Deduct	-2,011.18		
		For Class 54 Rating, Add	2,759.12		
		For Class 55 Rating, Add	4,110.42		
		For Class 56 Rating, Add	5,443.43		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2926	EA	18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,145.44	917.12
		For Class 52 Rating, Deduct		-2,063.15	
		For Class 54 Rating, Add		2,830.06	
		For Class 55 Rating, Add		4,215.91	
		For Class 56 Rating, Add		5,583.01	
40 05 19 00-2927	EA	18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,623.47	920.81
		For Class 52 Rating, Deduct		-2,115.11	
		For Class 54 Rating, Add		2,900.99	
		For Class 55 Rating, Add		4,321.40	
		For Class 56 Rating, Add		5,722.58	
40 05 19 00-2928	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,101.50	924.51
		For Class 52 Rating, Deduct		-2,167.08	
		For Class 54 Rating, Add		2,971.92	
		For Class 55 Rating, Add		4,426.89	
		For Class 56 Rating, Add		5,862.15	
40 05 19 00-2929	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		21,579.54	928.19
		For Class 52 Rating, Deduct		-2,219.05	
		For Class 54 Rating, Add		3,042.85	
		For Class 55 Rating, Add		4,532.37	
		For Class 56 Rating, Add		6,001.72	
40 05 19 00-2930	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,057.57	931.89
		For Class 52 Rating, Deduct		-2,271.02	
		For Class 54 Rating, Add		3,113.79	
		For Class 55 Rating, Add		4,637.86	
		For Class 56 Rating, Add		6,141.29	
40 05 19 00-2931	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,535.61	935.58
		For Class 52 Rating, Deduct		-2,322.99	
		For Class 54 Rating, Add		3,184.72	
		For Class 55 Rating, Add		4,743.35	
		For Class 56 Rating, Add		6,280.86	
40 05 19 00-2932 20" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-2933	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,617.95	911.95
		For Class 52 Rating, Deduct		-465.98	
		For Class 54 Rating, Add		652.01	
		For Class 55 Rating, Add		977.84	
		For Class 56 Rating, Add		1,299.42	
40 05 19 00-2934	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,162.12	915.63
		For Class 52 Rating, Deduct		-525.23	
		For Class 54 Rating, Add		732.87	
		For Class 55 Rating, Add		1,098.07	
		For Class 56 Rating, Add		1,458.51	
40 05 19 00-2935	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,706.31	919.33
		For Class 52 Rating, Deduct		-584.47	
		For Class 54 Rating, Add		813.72	
		For Class 55 Rating, Add		1,218.31	
		For Class 56 Rating, Add		1,617.59	
40 05 19 00-2936	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,250.48	923.02
		For Class 52 Rating, Deduct		-643.72	
		For Class 54 Rating, Add		894.58	
		For Class 55 Rating, Add		1,338.55	
		For Class 56 Rating, Add		1,776.67	
40 05 19 00-2937	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,794.65	926.72
		For Class 52 Rating, Deduct		-702.96	
		For Class 54 Rating, Add		975.43	
		For Class 55 Rating, Add		1,458.79	
		For Class 56 Rating, Add		1,935.76	
40 05 19 00-2938	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,338.83	930.40
		For Class 52 Rating, Deduct		-762.20	
		For Class 54 Rating, Add		1,056.28	
		For Class 55 Rating, Add		1,579.03	
		For Class 56 Rating, Add		2,094.84	
40 05 19 00-2939	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,883.00	934.10
		For Class 52 Rating, Deduct		-821.45	
		For Class 54 Rating, Add		1,137.14	
		For Class 55 Rating, Add		1,699.26	
		For Class 56 Rating, Add		2,253.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2940	EA	20"	Flanged x Grooved (F&G), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,427.17	937.79
			For Class 52 Rating, Deduct	-880.69	
			For Class 54 Rating, Add	1,217.99	
			For Class 55 Rating, Add	1,819.50	
			For Class 56 Rating, Add	2,413.00	
40 05 19 00-2941	EA	20"	Flanged x Grooved (F&G), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,971.35	941.48
			For Class 52 Rating, Deduct	-939.93	
			For Class 54 Rating, Add	1,298.85	
			For Class 55 Rating, Add	1,939.74	
			For Class 56 Rating, Add	2,572.09	
40 05 19 00-2942	EA	20"	Flanged x Grooved (F&G), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,515.53	945.17
			For Class 52 Rating, Deduct	-999.18	
			For Class 54 Rating, Add	1,379.70	
			For Class 55 Rating, Add	2,059.98	
			For Class 56 Rating, Add	2,731.17	
40 05 19 00-2943	EA	20"	Flanged x Grooved (F&G), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,059.70	948.87
			For Class 52 Rating, Deduct	-1,058.42	
			For Class 54 Rating, Add	1,460.56	
			For Class 55 Rating, Add	2,180.22	
			For Class 56 Rating, Add	2,890.25	
40 05 19 00-2944	EA	20"	Flanged x Grooved (F&G), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,603.88	952.55
			For Class 52 Rating, Deduct	-1,117.67	
			For Class 54 Rating, Add	1,541.41	
			For Class 55 Rating, Add	2,300.45	
			For Class 56 Rating, Add	3,049.34	
40 05 19 00-2945	EA	20"	Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,148.06	956.25
			For Class 52 Rating, Deduct	-1,176.91	
			For Class 54 Rating, Add	1,622.26	
			For Class 55 Rating, Add	2,420.69	
			For Class 56 Rating, Add	3,208.42	
40 05 19 00-2946	EA	20"	Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,692.23	959.94
			For Class 52 Rating, Deduct	-1,236.15	
			For Class 54 Rating, Add	1,703.12	
			For Class 55 Rating, Add	2,540.93	
			For Class 56 Rating, Add	3,367.50	
40 05 19 00-2947	EA	20"	Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,236.41	963.64
			For Class 52 Rating, Deduct	-1,295.40	
			For Class 54 Rating, Add	1,783.97	
			For Class 55 Rating, Add	2,661.17	
			For Class 56 Rating, Add	3,526.59	
40 05 19 00-2948	EA	20"	Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,780.59	967.32
			For Class 52 Rating, Deduct	-1,354.64	
			For Class 54 Rating, Add	1,864.83	
			For Class 55 Rating, Add	2,781.41	
			For Class 56 Rating, Add	3,685.67	
40 05 19 00-2949	EA	20"	Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,324.76	971.02
			For Class 52 Rating, Deduct	-1,413.89	
			For Class 54 Rating, Add	1,945.68	
			For Class 55 Rating, Add	2,901.64	
			For Class 56 Rating, Add	3,844.75	
40 05 19 00-2950	EA	20"	Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,868.94	974.71
			For Class 52 Rating, Deduct	-1,473.13	
			For Class 54 Rating, Add	2,026.54	
			For Class 55 Rating, Add	3,021.88	
			For Class 56 Rating, Add	4,003.84	
40 05 19 00-2951	EA	20"	Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,413.11	978.40
			For Class 52 Rating, Deduct	-1,532.37	
			For Class 54 Rating, Add	2,107.39	
			For Class 55 Rating, Add	3,142.12	
			For Class 56 Rating, Add	4,162.92	
40 05 19 00-2952	EA	20"	Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,957.28	982.09
			For Class 52 Rating, Deduct	-1,591.62	
			For Class 54 Rating, Add	2,188.25	
			For Class 55 Rating, Add	3,262.36	
			For Class 56 Rating, Add	4,322.00	
40 05 19 00-2953	EA	20"	Flanged x Grooved (F&G), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,501.46	985.79
			For Class 52 Rating, Deduct	-1,650.86	
			For Class 54 Rating, Add	2,269.10	
			For Class 55 Rating, Add	3,382.60	
			For Class 56 Rating, Add	4,481.08	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2954	EA	20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		17,045.64	989.48
		For Class 52 Rating, Deduct.....		-1,710.11	
		For Class 54 Rating, Add.....		2,349.96	
		For Class 55 Rating, Add.....		3,502.83	
		For Class 56 Rating, Add.....		4,640.17	
40 05 19 00-2955	EA	20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		17,589.81	993.17
		For Class 52 Rating, Deduct.....		-1,769.35	
		For Class 54 Rating, Add.....		2,430.81	
		For Class 55 Rating, Add.....		3,623.07	
		For Class 56 Rating, Add.....		4,799.25	
40 05 19 00-2956	EA	20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		18,133.99	996.86
		For Class 52 Rating, Deduct.....		-1,828.59	
		For Class 54 Rating, Add.....		2,511.66	
		For Class 55 Rating, Add.....		3,743.31	
		For Class 56 Rating, Add.....		4,958.33	
40 05 19 00-2957	EA	20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		18,678.16	1,000.56
		For Class 52 Rating, Deduct.....		-1,887.84	
		For Class 54 Rating, Add.....		2,592.52	
		For Class 55 Rating, Add.....		3,863.55	
		For Class 56 Rating, Add.....		5,117.42	
40 05 19 00-2958	EA	20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		19,222.34	1,004.24
		For Class 52 Rating, Deduct.....		-1,947.08	
		For Class 54 Rating, Add.....		2,673.37	
		For Class 55 Rating, Add.....		3,983.79	
		For Class 56 Rating, Add.....		5,276.50	
40 05 19 00-2959	EA	20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		19,766.52	1,007.94
		For Class 52 Rating, Deduct.....		-2,006.33	
		For Class 54 Rating, Add.....		2,754.23	
		For Class 55 Rating, Add.....		4,104.02	
		For Class 56 Rating, Add.....		5,435.58	
40 05 19 00-2960	EA	20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		20,310.70	1,011.63
		For Class 52 Rating, Deduct.....		-2,065.57	
		For Class 54 Rating, Add.....		2,835.08	
		For Class 55 Rating, Add.....		4,224.26	
		For Class 56 Rating, Add.....		5,594.67	
40 05 19 00-2961	EA	20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		20,854.87	1,015.33
		For Class 52 Rating, Deduct.....		-2,124.82	
		For Class 54 Rating, Add.....		2,915.94	
		For Class 55 Rating, Add.....		4,344.50	
		For Class 56 Rating, Add.....		5,753.75	
40 05 19 00-2962	EA	20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		21,399.05	1,019.01
		For Class 52 Rating, Deduct.....		-2,184.06	
		For Class 54 Rating, Add.....		2,996.79	
		For Class 55 Rating, Add.....		4,464.74	
		For Class 56 Rating, Add.....		5,912.83	
40 05 19 00-2963	EA	20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		21,943.22	1,022.71
		For Class 52 Rating, Deduct.....		-2,243.30	
		For Class 54 Rating, Add.....		3,077.64	
		For Class 55 Rating, Add.....		4,584.98	
		For Class 56 Rating, Add.....		6,071.91	
40 05 19 00-2964	EA	20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		22,487.39	1,026.40
		For Class 52 Rating, Deduct.....		-2,302.55	
		For Class 54 Rating, Add.....		3,158.50	
		For Class 55 Rating, Add.....		4,705.21	
		For Class 56 Rating, Add.....		6,231.00	
40 05 19 00-2965	EA	20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		23,031.57	1,030.09
		For Class 52 Rating, Deduct.....		-2,361.79	
		For Class 54 Rating, Add.....		3,239.35	
		For Class 55 Rating, Add.....		4,825.45	
		For Class 56 Rating, Add.....		6,390.08	
40 05 19 00-2966	EA	20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		23,575.74	1,033.78
		For Class 52 Rating, Deduct.....		-2,421.03	
		For Class 54 Rating, Add.....		3,320.21	
		For Class 55 Rating, Add.....		4,945.69	
		For Class 56 Rating, Add.....		6,549.16	
40 05 19 00-2967	EA	20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....		24,119.92	1,037.48
		For Class 52 Rating, Deduct.....		-2,480.28	
		For Class 54 Rating, Add.....		3,401.06	
		For Class 55 Rating, Add.....		5,065.93	
		For Class 56 Rating, Add.....		6,708.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2968	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,664.10	1,041.17
			For Class 52 Rating, Deduct.....	-2,539.52	
			For Class 54 Rating, Add.....	3,481.92	
			For Class 55 Rating, Add.....	5,186.17	
			For Class 56 Rating, Add.....	6,867.33	
40 05 19 00-2969	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,208.27	1,044.86
			For Class 52 Rating, Deduct.....	-2,598.77	
			For Class 54 Rating, Add.....	3,562.77	
			For Class 55 Rating, Add.....	5,306.40	
			For Class 56 Rating, Add.....	7,026.41	
40 05 19 00-2970	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,752.44	1,048.55
			For Class 52 Rating, Deduct.....	-2,658.01	
			For Class 54 Rating, Add.....	3,643.62	
			For Class 55 Rating, Add.....	5,426.64	
			For Class 56 Rating, Add.....	7,185.49	
40 05 19 00-2971			24" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2972	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,981.49	1,078.10
			For Class 52 Rating, Deduct.....	-588.28	
			For Class 54 Rating, Add.....	821.80	
			For Class 55 Rating, Add.....	1,231.81	
			For Class 56 Rating, Add.....	1,636.47	
40 05 19 00-2973	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,654.80	1,081.78
			For Class 52 Rating, Deduct.....	-661.73	
			For Class 54 Rating, Add.....	922.03	
			For Class 55 Rating, Add.....	1,380.85	
			For Class 56 Rating, Add.....	1,833.65	
40 05 19 00-2974	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,328.11	1,085.48
			For Class 52 Rating, Deduct.....	-735.18	
			For Class 54 Rating, Add.....	1,022.25	
			For Class 55 Rating, Add.....	1,529.88	
			For Class 56 Rating, Add.....	2,030.83	
40 05 19 00-2975	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,001.42	1,089.17
			For Class 52 Rating, Deduct.....	-808.63	
			For Class 54 Rating, Add.....	1,122.48	
			For Class 55 Rating, Add.....	1,678.92	
			For Class 56 Rating, Add.....	2,228.00	
40 05 19 00-2976	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,674.72	1,092.86
			For Class 52 Rating, Deduct.....	-882.08	
			For Class 54 Rating, Add.....	1,222.70	
			For Class 55 Rating, Add.....	1,827.95	
			For Class 56 Rating, Add.....	2,425.18	
40 05 19 00-2977	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,348.04	1,096.55
			For Class 52 Rating, Deduct.....	-955.53	
			For Class 54 Rating, Add.....	1,322.93	
			For Class 55 Rating, Add.....	1,976.99	
			For Class 56 Rating, Add.....	2,622.36	
40 05 19 00-2978	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,021.34	1,100.25
			For Class 52 Rating, Deduct.....	-1,028.97	
			For Class 54 Rating, Add.....	1,423.15	
			For Class 55 Rating, Add.....	2,126.02	
			For Class 56 Rating, Add.....	2,819.53	
40 05 19 00-2979	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,694.65	1,103.93
			For Class 52 Rating, Deduct.....	-1,102.42	
			For Class 54 Rating, Add.....	1,523.38	
			For Class 55 Rating, Add.....	2,275.06	
			For Class 56 Rating, Add.....	3,016.71	
40 05 19 00-2980	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,367.97	1,107.63
			For Class 52 Rating, Deduct.....	-1,175.87	
			For Class 54 Rating, Add.....	1,623.60	
			For Class 55 Rating, Add.....	2,424.09	
			For Class 56 Rating, Add.....	3,213.89	
40 05 19 00-2981	EA		24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,041.28	1,111.32
			For Class 52 Rating, Deduct.....	-1,249.32	
			For Class 54 Rating, Add.....	1,723.82	
			For Class 55 Rating, Add.....	2,573.13	
			For Class 56 Rating, Add.....	3,411.07	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2982	EA		24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,714.58	1,115.02
			For Class 52 Rating, Deduct	-1,322.77	
			For Class 54 Rating, Add	1,824.05	
			For Class 55 Rating, Add	2,722.16	
			For Class 56 Rating, Add	3,608.24	
40 05 19 00-2983	EA		24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,387.90	1,118.70
			For Class 52 Rating, Deduct	-1,396.22	
			For Class 54 Rating, Add	1,924.27	
			For Class 55 Rating, Add	2,871.19	
			For Class 56 Rating, Add	3,805.42	
40 05 19 00-2984	EA		24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,061.20	1,122.40
			For Class 52 Rating, Deduct	-1,469.67	
			For Class 54 Rating, Add	2,024.50	
			For Class 55 Rating, Add	3,020.23	
			For Class 56 Rating, Add	4,002.60	
40 05 19 00-2985	EA		24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,734.51	1,126.09
			For Class 52 Rating, Deduct	-1,543.12	
			For Class 54 Rating, Add	2,124.72	
			For Class 55 Rating, Add	3,169.26	
			For Class 56 Rating, Add	4,199.78	
40 05 19 00-2986	EA		24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,407.82	1,129.78
			For Class 52 Rating, Deduct	-1,616.56	
			For Class 54 Rating, Add	2,224.95	
			For Class 55 Rating, Add	3,318.30	
			For Class 56 Rating, Add	4,396.95	
40 05 19 00-2987	EA		24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,081.13	1,133.47
			For Class 52 Rating, Deduct	-1,690.01	
			For Class 54 Rating, Add	2,325.17	
			For Class 55 Rating, Add	3,467.33	
			For Class 56 Rating, Add	4,594.13	
40 05 19 00-2988	EA		24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,754.43	1,137.17
			For Class 52 Rating, Deduct	-1,763.46	
			For Class 54 Rating, Add	2,425.39	
			For Class 55 Rating, Add	3,616.37	
			For Class 56 Rating, Add	4,791.31	
40 05 19 00-2989	EA		24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,427.75	1,140.86
			For Class 52 Rating, Deduct	-1,836.91	
			For Class 54 Rating, Add	2,525.62	
			For Class 55 Rating, Add	3,765.40	
			For Class 56 Rating, Add	4,988.49	
40 05 19 00-2990	EA		24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,101.05	1,144.55
			For Class 52 Rating, Deduct	-1,910.36	
			For Class 54 Rating, Add	2,625.84	
			For Class 55 Rating, Add	3,914.44	
			For Class 56 Rating, Add	5,185.66	
40 05 19 00-2991	EA		24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,774.36	1,148.24
			For Class 52 Rating, Deduct	-1,983.81	
			For Class 54 Rating, Add	2,726.07	
			For Class 55 Rating, Add	4,063.47	
			For Class 56 Rating, Add	5,382.84	
40 05 19 00-2992	EA		24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,447.67	1,151.94
			For Class 52 Rating, Deduct	-2,057.26	
			For Class 54 Rating, Add	2,826.29	
			For Class 55 Rating, Add	4,212.51	
			For Class 56 Rating, Add	5,580.02	
40 05 19 00-2993	EA		24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,120.98	1,155.62
			For Class 52 Rating, Deduct	-2,130.70	
			For Class 54 Rating, Add	2,926.52	
			For Class 55 Rating, Add	4,361.54	
			For Class 56 Rating, Add	5,777.20	
40 05 19 00-2994	EA		24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,794.31	1,159.32
			For Class 52 Rating, Deduct	-2,204.15	
			For Class 54 Rating, Add	3,026.74	
			For Class 55 Rating, Add	4,510.58	
			For Class 56 Rating, Add	5,974.38	
40 05 19 00-2995	EA		24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,467.61	1,163.01
			For Class 52 Rating, Deduct	-2,277.60	
			For Class 54 Rating, Add	3,126.97	
			For Class 55 Rating, Add	4,659.61	
			For Class 56 Rating, Add	6,171.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2996	EA	24"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	23,140.92	1,166.71
			For Class 52 Rating, Deduct	-2,351.05	
			For Class 54 Rating, Add	3,227.19	
			For Class 55 Rating, Add	4,808.65	
			For Class 56 Rating, Add	6,368.73	
40 05 19 00-2997	EA	24"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	23,814.23	1,170.39
			For Class 52 Rating, Deduct	-2,424.50	
			For Class 54 Rating, Add	3,327.41	
			For Class 55 Rating, Add	4,957.68	
			For Class 56 Rating, Add	6,565.91	
40 05 19 00-2998	EA	24"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	24,487.54	1,174.09
			For Class 52 Rating, Deduct	-2,497.95	
			For Class 54 Rating, Add	3,427.64	
			For Class 55 Rating, Add	5,106.72	
			For Class 56 Rating, Add	6,763.08	
40 05 19 00-2999	EA	24"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	25,160.84	1,177.78
			For Class 52 Rating, Deduct	-2,571.40	
			For Class 54 Rating, Add	3,527.86	
			For Class 55 Rating, Add	5,255.75	
			For Class 56 Rating, Add	6,960.26	
40 05 19 00-3000	EA	24"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	25,834.16	1,181.47
			For Class 52 Rating, Deduct	-2,644.65	
			For Class 54 Rating, Add	3,628.09	
			For Class 55 Rating, Add	5,404.79	
			For Class 56 Rating, Add	7,157.44	
40 05 19 00-3001	EA	24"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	26,602.56	1,247.93
			For Class 52 Rating, Deduct	-2,718.29	
			For Class 54 Rating, Add	3,729.45	
			For Class 55 Rating, Add	5,556.10	
			For Class 56 Rating, Add	7,358.04	
40 05 19 00-3002	EA	24"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	27,275.87	1,251.62
			For Class 52 Rating, Deduct	-2,791.74	
			For Class 54 Rating, Add	3,829.68	
			For Class 55 Rating, Add	5,705.14	
			For Class 56 Rating, Add	7,555.22	
40 05 19 00-3003	EA	24"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	27,949.17	1,255.31
			For Class 52 Rating, Deduct	-2,865.19	
			For Class 54 Rating, Add	3,929.90	
			For Class 55 Rating, Add	5,854.17	
			For Class 56 Rating, Add	7,752.39	
40 05 19 00-3004	EA	24"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	28,622.49	1,259.00
			For Class 52 Rating, Deduct	-2,938.64	
			For Class 54 Rating, Add	4,030.13	
			For Class 55 Rating, Add	6,003.21	
			For Class 56 Rating, Add	7,949.57	
40 05 19 00-3005	EA	24"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	29,295.80	1,262.70
			For Class 52 Rating, Deduct	-3,012.09	
			For Class 54 Rating, Add	4,130.35	
			For Class 55 Rating, Add	6,152.24	
			For Class 56 Rating, Add	8,146.75	
40 05 19 00-3006	EA	24"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	29,965.96	1,266.39
			For Class 52 Rating, Deduct	-3,085.19	
			For Class 54 Rating, Add	4,230.10	
			For Class 55 Rating, Add	6,300.57	
			For Class 56 Rating, Add	8,343.00	
40 05 19 00-3007	EA	24"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	30,642.42	1,270.08
			For Class 52 Rating, Deduct	-3,158.99	
			For Class 54 Rating, Add	4,330.80	
			For Class 55 Rating, Add	6,450.31	
			For Class 56 Rating, Add	8,541.10	
40 05 19 00-3008	EA	24"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	31,315.73	1,273.77
			For Class 52 Rating, Deduct	-3,232.43	
			For Class 54 Rating, Add	4,431.03	
			For Class 55 Rating, Add	6,599.35	
			For Class 56 Rating, Add	8,738.28	
40 05 19 00-3009	EA	24"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	31,989.03	1,277.47
			For Class 52 Rating, Deduct	-3,305.88	
			For Class 54 Rating, Add	4,531.25	
			For Class 55 Rating, Add	6,748.38	
			For Class 56 Rating, Add	8,935.46	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 19 00-3010	30" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)				
40 05 19 00-3011	EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,726.79		1,521.14	
	For Class 52 Rating, Deduct	-926.42			
	For Class 54 Rating, Add	1,290.96			
	For Class 55 Rating, Add	1,933.43			
	For Class 56 Rating, Add	2,567.47			
40 05 19 00-3012	EA 30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,689.87		1,524.83	
	For Class 52 Rating, Deduct	-1,031.75			
	For Class 54 Rating, Add	1,434.65			
	For Class 55 Rating, Add	2,147.08			
	For Class 56 Rating, Add	2,850.13			
40 05 19 00-3013	EA 30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,652.94		1,528.53	
	For Class 52 Rating, Deduct	-1,137.07			
	For Class 54 Rating, Add	1,578.34			
	For Class 55 Rating, Add	2,360.73			
	For Class 56 Rating, Add	3,132.79			
40 05 19 00-3014	EA 30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,616.01		1,532.22	
	For Class 52 Rating, Deduct	-1,242.39			
	For Class 54 Rating, Add	1,722.03			
	For Class 55 Rating, Add	2,574.38			
	For Class 56 Rating, Add	3,415.44			
40 05 19 00-3015	EA 30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,579.08		1,535.91	
	For Class 52 Rating, Deduct	-1,347.71			
	For Class 54 Rating, Add	1,865.72			
	For Class 55 Rating, Add	2,788.03			
	For Class 56 Rating, Add	3,698.10			
40 05 19 00-3016	EA 30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,542.15		1,539.60	
	For Class 52 Rating, Deduct	-1,453.04			
	For Class 54 Rating, Add	2,009.41			
	For Class 55 Rating, Add	3,001.69			
	For Class 56 Rating, Add	3,980.76			
40 05 19 00-3017	EA 30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,505.22		1,543.30	
	For Class 52 Rating, Deduct	-1,558.36			
	For Class 54 Rating, Add	2,153.09			
	For Class 55 Rating, Add	3,215.34			
	For Class 56 Rating, Add	4,263.42			
40 05 19 00-3018	EA 30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,468.30		1,546.98	
	For Class 52 Rating, Deduct	-1,663.68			
	For Class 54 Rating, Add	2,296.78			
	For Class 55 Rating, Add	3,428.99			
	For Class 56 Rating, Add	4,546.07			
40 05 19 00-3019	EA 30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,431.37		1,550.68	
	For Class 52 Rating, Deduct	-1,769.00			
	For Class 54 Rating, Add	2,440.47			
	For Class 55 Rating, Add	3,642.64			
	For Class 56 Rating, Add	4,828.73			
40 05 19 00-3020	EA 30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,394.44		1,554.37	
	For Class 52 Rating, Deduct	-1,874.33			
	For Class 54 Rating, Add	2,584.16			
	For Class 55 Rating, Add	3,856.30			
	For Class 56 Rating, Add	5,111.39			
40 05 19 00-3021	EA 30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,357.51		1,558.06	
	For Class 52 Rating, Deduct	-1,979.65			
	For Class 54 Rating, Add	2,727.85			
	For Class 55 Rating, Add	4,069.95			
	For Class 56 Rating, Add	5,394.04			
40 05 19 00-3022	EA 30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,320.58		1,561.75	
	For Class 52 Rating, Deduct	-2,084.97			
	For Class 54 Rating, Add	2,871.54			
	For Class 55 Rating, Add	4,283.60			
	For Class 56 Rating, Add	5,676.70			
40 05 19 00-3023	EA 30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,283.65		1,565.45	
	For Class 52 Rating, Deduct	-2,190.29			
	For Class 54 Rating, Add	3,015.23			
	For Class 55 Rating, Add	4,497.25			
	For Class 56 Rating, Add	5,959.36			
40 05 19 00-3024	EA 30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,246.73		1,569.14	
	For Class 52 Rating, Deduct	-2,295.62			
	For Class 54 Rating, Add	3,158.92			
	For Class 55 Rating, Add	4,710.90			
	For Class 56 Rating, Add	6,242.02			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3025	EA		30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,209.81	1,572.83
			For Class 52 Rating, Deduct	-2,400.94	
			For Class 54 Rating, Add	3,302.61	
			For Class 55 Rating, Add	4,924.55	
			For Class 56 Rating, Add	6,524.68	
40 05 19 00-3026	EA		30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,172.88	1,576.52
			For Class 52 Rating, Deduct	-2,506.26	
			For Class 54 Rating, Add	3,446.30	
			For Class 55 Rating, Add	5,138.21	
			For Class 56 Rating, Add	6,807.33	
40 05 19 00-3027	EA		30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,135.95	1,580.22
			For Class 52 Rating, Deduct	-2,611.58	
			For Class 54 Rating, Add	3,589.98	
			For Class 55 Rating, Add	5,351.86	
			For Class 56 Rating, Add	7,089.99	
40 05 19 00-3028	EA		30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,099.02	1,583.90
			For Class 52 Rating, Deduct	-2,716.91	
			For Class 54 Rating, Add	3,733.67	
			For Class 55 Rating, Add	5,565.51	
			For Class 56 Rating, Add	7,372.65	
40 05 19 00-3029	EA		30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,062.09	1,587.60
			For Class 52 Rating, Deduct	-2,822.23	
			For Class 54 Rating, Add	3,877.36	
			For Class 55 Rating, Add	5,779.16	
			For Class 56 Rating, Add	7,655.31	
40 05 19 00-3030	EA		30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,025.17	1,591.29
			For Class 52 Rating, Deduct	-2,927.55	
			For Class 54 Rating, Add	4,021.05	
			For Class 55 Rating, Add	5,992.81	
			For Class 56 Rating, Add	7,937.96	
40 05 19 00-3031	EA		30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,988.24	1,594.99
			For Class 52 Rating, Deduct	-3,032.88	
			For Class 54 Rating, Add	4,164.74	
			For Class 55 Rating, Add	6,206.47	
			For Class 56 Rating, Add	8,220.62	
40 05 19 00-3032	EA		30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,951.31	1,598.67
			For Class 52 Rating, Deduct	-3,138.20	
			For Class 54 Rating, Add	4,308.43	
			For Class 55 Rating, Add	6,420.12	
			For Class 56 Rating, Add	8,503.28	
40 05 19 00-3033	EA		30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,914.39	1,602.37
			For Class 52 Rating, Deduct	-3,243.52	
			For Class 54 Rating, Add	4,452.12	
			For Class 55 Rating, Add	6,633.77	
			For Class 56 Rating, Add	8,785.94	
40 05 19 00-3034	EA		30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,877.45	1,606.06
			For Class 52 Rating, Deduct	-3,348.84	
			For Class 54 Rating, Add	4,595.81	
			For Class 55 Rating, Add	6,847.42	
			For Class 56 Rating, Add	9,068.59	
40 05 19 00-3035	EA		30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,840.52	1,609.75
			For Class 52 Rating, Deduct	-3,454.17	
			For Class 54 Rating, Add	4,739.49	
			For Class 55 Rating, Add	7,061.07	
			For Class 56 Rating, Add	9,351.25	
40 05 19 00-3036	EA		30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,803.60	1,613.44
			For Class 52 Rating, Deduct	-3,559.49	
			For Class 54 Rating, Add	4,883.18	
			For Class 55 Rating, Add	7,274.73	
			For Class 56 Rating, Add	9,633.91	
40 05 19 00-3037	EA		30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,766.67	1,617.14
			For Class 52 Rating, Deduct	-3,664.81	
			For Class 54 Rating, Add	5,026.87	
			For Class 55 Rating, Add	7,488.38	
			For Class 56 Rating, Add	9,916.57	
40 05 19 00-3038	EA		30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,729.75	1,620.83
			For Class 52 Rating, Deduct	-3,770.13	
			For Class 54 Rating, Add	5,170.56	
			For Class 55 Rating, Add	7,702.03	
			For Class 56 Rating, Add	10,199.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3039	EA		30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	37,692.83	1,624.52
			For Class 52 Rating, Deduct.....	-3,875.46	
			For Class 54 Rating, Add.....	5,314.25	
			For Class 55 Rating, Add.....	7,915.68	
			For Class 56 Rating, Add.....	10,481.88	
40 05 19 00-3040	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,655.89	1,628.21
			For Class 52 Rating, Deduct.....	-3,980.78	
			For Class 54 Rating, Add.....	5,457.94	
			For Class 55 Rating, Add.....	8,129.33	
			For Class 56 Rating, Add.....	10,764.54	
40 05 19 00-3041	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	39,618.97	1,631.91
			For Class 52 Rating, Deduct.....	-4,086.10	
			For Class 54 Rating, Add.....	5,601.63	
			For Class 55 Rating, Add.....	8,342.98	
			For Class 56 Rating, Add.....	11,047.20	
40 05 19 00-3042	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	40,582.04	1,635.59
			For Class 52 Rating, Deduct.....	-4,191.42	
			For Class 54 Rating, Add.....	5,745.32	
			For Class 55 Rating, Add.....	8,556.64	
			For Class 56 Rating, Add.....	11,329.85	
40 05 19 00-3043	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	41,545.11	1,639.29
			For Class 52 Rating, Deduct.....	-4,296.75	
			For Class 54 Rating, Add.....	5,889.01	
			For Class 55 Rating, Add.....	8,770.29	
			For Class 56 Rating, Add.....	11,612.51	
40 05 19 00-3044	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	42,508.19	1,642.98
			For Class 52 Rating, Deduct.....	-4,402.07	
			For Class 54 Rating, Add.....	6,032.70	
			For Class 55 Rating, Add.....	8,983.94	
			For Class 56 Rating, Add.....	11,895.17	
40 05 19 00-3045	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	43,471.26	1,646.67
			For Class 52 Rating, Deduct.....	-4,507.39	
			For Class 54 Rating, Add.....	6,176.38	
			For Class 55 Rating, Add.....	9,197.59	
			For Class 56 Rating, Add.....	12,177.83	
40 05 19 00-3046 36" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-3047	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,828.74	1,927.27
			For Class 52 Rating, Deduct.....	-1,309.95	
			For Class 54 Rating, Add.....	1,821.34	
			For Class 55 Rating, Add.....	2,725.71	
			For Class 56 Rating, Add.....	3,618.17	
40 05 19 00-3048	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,119.37	1,930.96
			For Class 52 Rating, Deduct.....	-1,451.30	
			For Class 54 Rating, Add.....	2,014.16	
			For Class 55 Rating, Add.....	3,012.41	
			For Class 56 Rating, Add.....	3,997.46	
40 05 19 00-3049	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,410.01	1,934.66
			For Class 52 Rating, Deduct.....	-1,592.66	
			For Class 54 Rating, Add.....	2,206.98	
			For Class 55 Rating, Add.....	3,299.10	
			For Class 56 Rating, Add.....	4,376.75	
40 05 19 00-3050	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,700.64	1,938.34
			For Class 52 Rating, Deduct.....	-1,734.01	
			For Class 54 Rating, Add.....	2,399.81	
			For Class 55 Rating, Add.....	3,585.80	
			For Class 56 Rating, Add.....	4,756.03	
40 05 19 00-3051	EA		36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,991.27	1,942.04
			For Class 52 Rating, Deduct.....	-1,875.37	
			For Class 54 Rating, Add.....	2,592.63	
			For Class 55 Rating, Add.....	3,872.50	
			For Class 56 Rating, Add.....	5,135.32	
40 05 19 00-3052	EA		36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,281.90	1,945.73
			For Class 52 Rating, Deduct.....	-2,016.72	
			For Class 54 Rating, Add.....	2,785.45	
			For Class 55 Rating, Add.....	4,159.20	
			For Class 56 Rating, Add.....	5,514.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3053	EA		36" Flanged x Grooved (F&G), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,572.53	1,949.42
			For Class 52 Rating, Deduct	-2,158.07	
			For Class 54 Rating, Add	2,978.27	
			For Class 55 Rating, Add	4,445.89	
			For Class 56 Rating, Add	5,893.90	
40 05 19 00-3054	EA		36" Flanged x Grooved (F&G), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,863.17	1,953.11
			For Class 52 Rating, Deduct	-2,299.43	
			For Class 54 Rating, Add	3,171.10	
			For Class 55 Rating, Add	4,732.59	
			For Class 56 Rating, Add	6,273.18	
40 05 19 00-3055	EA		36" Flanged x Grooved (F&G), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,153.79	1,956.81
			For Class 52 Rating, Deduct	-2,440.78	
			For Class 54 Rating, Add	3,363.92	
			For Class 55 Rating, Add	5,019.29	
			For Class 56 Rating, Add	6,652.47	
40 05 19 00-3056	EA		36" Flanged x Grooved (F&G), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,444.42	1,960.50
			For Class 52 Rating, Deduct	-2,582.14	
			For Class 54 Rating, Add	3,556.74	
			For Class 55 Rating, Add	5,305.99	
			For Class 56 Rating, Add	7,031.76	
40 05 19 00-3057	EA		36" Flanged x Grooved (F&G), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,735.06	1,964.19
			For Class 52 Rating, Deduct	-2,723.49	
			For Class 54 Rating, Add	3,749.56	
			For Class 55 Rating, Add	5,592.68	
			For Class 56 Rating, Add	7,411.05	
40 05 19 00-3058	EA		36" Flanged x Grooved (F&G), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,025.68	1,967.88
			For Class 52 Rating, Deduct	-2,864.64	
			For Class 54 Rating, Add	3,942.39	
			For Class 55 Rating, Add	5,879.38	
			For Class 56 Rating, Add	7,790.33	
40 05 19 00-3059	EA		36" Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,316.31	1,971.58
			For Class 52 Rating, Deduct	-3,006.20	
			For Class 54 Rating, Add	4,135.21	
			For Class 55 Rating, Add	6,166.08	
			For Class 56 Rating, Add	8,169.62	
40 05 19 00-3060	EA		36" Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,606.95	1,975.26
			For Class 52 Rating, Deduct	-3,147.55	
			For Class 54 Rating, Add	4,328.03	
			For Class 55 Rating, Add	6,452.78	
			For Class 56 Rating, Add	8,548.91	
40 05 19 00-3061	EA		36" Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,897.57	1,978.96
			For Class 52 Rating, Deduct	-3,288.91	
			For Class 54 Rating, Add	4,520.85	
			For Class 55 Rating, Add	6,739.47	
			For Class 56 Rating, Add	8,928.19	
40 05 19 00-3062	EA		36" Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,188.20	1,982.65
			For Class 52 Rating, Deduct	-3,430.26	
			For Class 54 Rating, Add	4,713.68	
			For Class 55 Rating, Add	7,026.17	
			For Class 56 Rating, Add	9,307.48	
40 05 19 00-3063	EA		36" Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,478.85	1,986.35
			For Class 52 Rating, Deduct	-3,571.62	
			For Class 54 Rating, Add	4,906.50	
			For Class 55 Rating, Add	7,312.87	
			For Class 56 Rating, Add	9,686.77	
40 05 19 00-3064	EA		36" Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,769.47	1,990.03
			For Class 52 Rating, Deduct	-3,712.97	
			For Class 54 Rating, Add	5,099.32	
			For Class 55 Rating, Add	7,599.57	
			For Class 56 Rating, Add	10,066.05	
40 05 19 00-3065	EA		36" Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,060.10	1,993.73
			For Class 52 Rating, Deduct	-3,854.32	
			For Class 54 Rating, Add	5,292.14	
			For Class 55 Rating, Add	7,886.26	
			For Class 56 Rating, Add	10,445.34	
40 05 19 00-3066	EA		36" Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,350.74	1,997.42
			For Class 52 Rating, Deduct	-3,995.68	
			For Class 54 Rating, Add	5,484.97	
			For Class 55 Rating, Add	8,172.96	
			For Class 56 Rating, Add	10,824.63	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3067	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	40,641.36	2,001.11
			For Class 52 Rating, Deduct.....	-4,137.03	
			For Class 54 Rating, Add.....	5,677.79	
			For Class 55 Rating, Add.....	8,459.66	
			For Class 56 Rating, Add.....	11,203.92	
40 05 19 00-3068	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	41,931.99	2,004.80
			For Class 52 Rating, Deduct.....	-4,278.39	
			For Class 54 Rating, Add.....	5,870.61	
			For Class 55 Rating, Add.....	8,746.36	
			For Class 56 Rating, Add.....	11,583.20	
40 05 19 00-3069	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	43,222.63	2,008.50
			For Class 52 Rating, Deduct.....	-4,419.74	
			For Class 54 Rating, Add.....	6,063.44	
			For Class 55 Rating, Add.....	9,033.05	
			For Class 56 Rating, Add.....	11,962.49	
40 05 19 00-3070	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	44,513.25	2,012.18
			For Class 52 Rating, Deduct.....	-4,561.09	
			For Class 54 Rating, Add.....	6,256.26	
			For Class 55 Rating, Add.....	9,319.75	
			For Class 56 Rating, Add.....	12,341.78	
40 05 19 00-3071	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	45,803.88	2,015.88
			For Class 52 Rating, Deduct.....	-4,702.45	
			For Class 54 Rating, Add.....	6,449.08	
			For Class 55 Rating, Add.....	9,606.45	
			For Class 56 Rating, Add.....	12,721.07	
40 05 19 00-3072	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	47,094.52	2,019.57
			For Class 52 Rating, Deduct.....	-4,843.80	
			For Class 54 Rating, Add.....	6,641.90	
			For Class 55 Rating, Add.....	9,893.15	
			For Class 56 Rating, Add.....	13,100.35	
40 05 19 00-3073	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	48,385.14	2,023.27
			For Class 52 Rating, Deduct.....	-4,985.15	
			For Class 54 Rating, Add.....	6,834.73	
			For Class 55 Rating, Add.....	10,179.84	
			For Class 56 Rating, Add.....	13,479.64	
40 05 19 00-3074	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	49,675.77	2,026.95
			For Class 52 Rating, Deduct.....	-5,126.51	
			For Class 54 Rating, Add.....	7,027.55	
			For Class 55 Rating, Add.....	10,466.54	
			For Class 56 Rating, Add.....	13,858.93	
40 05 19 00-3075	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	50,966.41	2,030.65
			For Class 52 Rating, Deduct.....	-5,267.86	
			For Class 54 Rating, Add.....	7,220.37	
			For Class 55 Rating, Add.....	10,753.24	
			For Class 56 Rating, Add.....	14,238.22	
40 05 19 00-3076	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	52,257.03	2,034.34
			For Class 52 Rating, Deduct.....	-5,409.22	
			For Class 54 Rating, Add.....	7,413.19	
			For Class 55 Rating, Add.....	11,039.93	
			For Class 56 Rating, Add.....	14,617.50	
40 05 19 00-3077	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	53,547.67	2,038.03
			For Class 52 Rating, Deduct.....	-5,550.57	
			For Class 54 Rating, Add.....	7,606.02	
			For Class 55 Rating, Add.....	11,326.63	
			For Class 56 Rating, Add.....	14,996.79	
40 05 19 00-3078	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	54,838.31	2,041.72
			For Class 52 Rating, Deduct.....	-5,691.93	
			For Class 54 Rating, Add.....	7,798.84	
			For Class 55 Rating, Add.....	11,613.33	
			For Class 56 Rating, Add.....	15,376.08	
40 05 19 00-3079	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	56,128.94	2,045.42
			For Class 52 Rating, Deduct.....	-5,833.28	
			For Class 54 Rating, Add.....	7,991.66	
			For Class 55 Rating, Add.....	11,900.03	
			For Class 56 Rating, Add.....	15,755.37	
40 05 19 00-3080	EA		36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	57,419.56	2,049.11
			For Class 52 Rating, Deduct.....	-5,974.63	
			For Class 54 Rating, Add.....	8,184.48	
			For Class 55 Rating, Add.....	12,186.72	
			For Class 56 Rating, Add.....	16,134.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3081	EA		36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	58,710.20	2,052.80
			For Class 52 Rating, Deduct.....	-6,115.99	
			For Class 54 Rating, Add.....	8,377.31	
			For Class 55 Rating, Add.....	12,473.42	
			For Class 56 Rating, Add.....	16,513.94	
40 05 19 00-3082			Flanged End x Plain End (FxPE), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2073)		
40 05 19 00-3083			4" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3084	EA		4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	805.86	180.56
			For Class 52 Rating, Deduct.....	-58.55	
			For Class 54 Rating, Add.....	83.12	
			For Class 55 Rating, Add.....	125.26	
			For Class 56 Rating, Add.....	166.87	
40 05 19 00-3085	EA		4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	930.33	183.72
			For Class 52 Rating, Deduct.....	-71.72	
			For Class 54 Rating, Add.....	101.14	
			For Class 55 Rating, Add.....	152.07	
			For Class 56 Rating, Add.....	202.35	
40 05 19 00-3086	EA		4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,054.80	186.89
			For Class 52 Rating, Deduct.....	-84.88	
			For Class 54 Rating, Add.....	119.15	
			For Class 55 Rating, Add.....	178.87	
			For Class 56 Rating, Add.....	237.83	
40 05 19 00-3087	EA		4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,179.27	190.03
			For Class 52 Rating, Deduct.....	-98.05	
			For Class 54 Rating, Add.....	137.16	
			For Class 55 Rating, Add.....	205.68	
			For Class 56 Rating, Add.....	273.31	
40 05 19 00-3088	EA		4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,303.73	193.20
			For Class 52 Rating, Deduct.....	-111.21	
			For Class 54 Rating, Add.....	155.17	
			For Class 55 Rating, Add.....	232.48	
			For Class 56 Rating, Add.....	308.79	
40 05 19 00-3089	EA		4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,428.20	196.36
			For Class 52 Rating, Deduct.....	-124.38	
			For Class 54 Rating, Add.....	173.18	
			For Class 55 Rating, Add.....	259.29	
			For Class 56 Rating, Add.....	344.27	
40 05 19 00-3090	EA		4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,552.66	199.52
			For Class 52 Rating, Deduct.....	-137.54	
			For Class 54 Rating, Add.....	191.19	
			For Class 55 Rating, Add.....	286.09	
			For Class 56 Rating, Add.....	379.75	
40 05 19 00-3091	EA		4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,677.14	202.66
			For Class 52 Rating, Deduct.....	-150.71	
			For Class 54 Rating, Add.....	209.20	
			For Class 55 Rating, Add.....	312.90	
			For Class 56 Rating, Add.....	415.23	
40 05 19 00-3092	EA		4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,801.60	205.82
			For Class 52 Rating, Deduct.....	-163.87	
			For Class 54 Rating, Add.....	227.21	
			For Class 55 Rating, Add.....	339.70	
			For Class 56 Rating, Add.....	450.71	
40 05 19 00-3093	EA		4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,926.08	208.98
			For Class 52 Rating, Deduct.....	-177.04	
			For Class 54 Rating, Add.....	245.22	
			For Class 55 Rating, Add.....	366.51	
			For Class 56 Rating, Add.....	486.19	
40 05 19 00-3094	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,050.54	212.13
			For Class 52 Rating, Deduct.....	-190.20	
			For Class 54 Rating, Add.....	263.23	
			For Class 55 Rating, Add.....	393.31	
			For Class 56 Rating, Add.....	521.66	
40 05 19 00-3095	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,175.01	215.29
			For Class 52 Rating, Deduct.....	-203.37	
			For Class 54 Rating, Add.....	281.24	
			For Class 55 Rating, Add.....	420.12	
			For Class 56 Rating, Add.....	557.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3096	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,299.47	218.45
			For Class 52 Rating, Deduct.....	-216.54	
			For Class 54 Rating, Add.....	299.25	
			For Class 55 Rating, Add.....	446.92	
			For Class 56 Rating, Add.....	592.62	
40 05 19 00-3097	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,423.93	221.61
			For Class 52 Rating, Deduct.....	-229.70	
			For Class 54 Rating, Add.....	317.26	
			For Class 55 Rating, Add.....	473.72	
			For Class 56 Rating, Add.....	628.10	
40 05 19 00-3098	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,548.41	224.76
			For Class 52 Rating, Deduct.....	-242.87	
			For Class 54 Rating, Add.....	335.27	
			For Class 55 Rating, Add.....	500.53	
			For Class 56 Rating, Add.....	663.58	
40 05 19 00-3099	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,672.87	227.92
			For Class 52 Rating, Deduct.....	-256.03	
			For Class 54 Rating, Add.....	353.28	
			For Class 55 Rating, Add.....	527.33	
			For Class 56 Rating, Add.....	699.06	
40 05 19 00-3100	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,797.35	231.08
			For Class 52 Rating, Deduct.....	-269.20	
			For Class 54 Rating, Add.....	371.29	
			For Class 55 Rating, Add.....	554.14	
			For Class 56 Rating, Add.....	734.54	
40 05 19 00-3101	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,921.81	234.23
			For Class 52 Rating, Deduct.....	-282.36	
			For Class 54 Rating, Add.....	389.30	
			For Class 55 Rating, Add.....	580.94	
			For Class 56 Rating, Add.....	770.02	
40 05 19 00-3102	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,046.28	237.38
			For Class 52 Rating, Deduct.....	-295.53	
			For Class 54 Rating, Add.....	407.31	
			For Class 55 Rating, Add.....	607.75	
			For Class 56 Rating, Add.....	805.50	
40 05 19 00-3103	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,170.75	240.54
			For Class 52 Rating, Deduct.....	-308.69	
			For Class 54 Rating, Add.....	425.32	
			For Class 55 Rating, Add.....	634.55	
			For Class 56 Rating, Add.....	840.98	
40 05 19 00-3104	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,295.21	243.70
			For Class 52 Rating, Deduct.....	-321.86	
			For Class 54 Rating, Add.....	443.33	
			For Class 55 Rating, Add.....	661.36	
			For Class 56 Rating, Add.....	876.46	
40 05 19 00-3105	EA		4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,419.68	246.85
			For Class 52 Rating, Deduct.....	-335.02	
			For Class 54 Rating, Add.....	461.34	
			For Class 55 Rating, Add.....	688.16	
			For Class 56 Rating, Add.....	911.93	
40 05 19 00-3106	EA		4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,544.15	250.01
			For Class 52 Rating, Deduct.....	-348.19	
			For Class 54 Rating, Add.....	479.35	
			For Class 55 Rating, Add.....	714.96	
			For Class 56 Rating, Add.....	947.42	
40 05 19 00-3107	EA		4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	3,668.61	253.17
			For Class 52 Rating, Deduct.....	-361.35	
			For Class 54 Rating, Add.....	497.36	
			For Class 55 Rating, Add.....	741.77	
			For Class 56 Rating, Add.....	982.89	
40 05 19 00-3108	EA		4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,101.75	256.32
			For Class 52 Rating, Deduct.....	-408.47	
			For Class 54 Rating, Add.....	561.67	
			For Class 55 Rating, Add.....	837.40	
			For Class 56 Rating, Add.....	1,109.43	
40 05 19 00-3109	EA		4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,226.21	259.48
			For Class 52 Rating, Deduct.....	-421.64	
			For Class 54 Rating, Add.....	579.68	
			For Class 55 Rating, Add.....	864.21	
			For Class 56 Rating, Add.....	1,144.91	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3110	EA		4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,350.69	262.64
			For Class 52 Rating, Deduct	-434.80	
			For Class 54 Rating, Add	597.69	
			For Class 55 Rating, Add	891.01	
			For Class 56 Rating, Add	1,180.39	
40 05 19 00-3111	EA		4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,475.15	265.80
			For Class 52 Rating, Deduct	-447.97	
			For Class 54 Rating, Add	615.70	
			For Class 55 Rating, Add	917.82	
			For Class 56 Rating, Add	1,215.86	
40 05 19 00-3112	EA		4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,599.62	268.95
			For Class 52 Rating, Deduct	-461.13	
			For Class 54 Rating, Add	633.71	
			For Class 55 Rating, Add	944.62	
			For Class 56 Rating, Add	1,251.35	
40 05 19 00-3113	EA		4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,724.08	272.11
			For Class 52 Rating, Deduct	-474.30	
			For Class 54 Rating, Add	651.72	
			For Class 55 Rating, Add	971.43	
			For Class 56 Rating, Add	1,286.82	
40 05 19 00-3114	EA		4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,848.55	275.27
			For Class 52 Rating, Deduct	-487.46	
			For Class 54 Rating, Add	669.73	
			For Class 55 Rating, Add	998.23	
			For Class 56 Rating, Add	1,322.30	
40 05 19 00-3115	EA		4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,973.02	278.44
			For Class 52 Rating, Deduct	-500.63	
			For Class 54 Rating, Add	687.74	
			For Class 55 Rating, Add	1,025.04	
			For Class 56 Rating, Add	1,357.78	
40 05 19 00-3116	EA		4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,097.49	281.57
			For Class 52 Rating, Deduct	-513.79	
			For Class 54 Rating, Add	705.75	
			For Class 55 Rating, Add	1,051.84	
			For Class 56 Rating, Add	1,393.26	
40 05 19 00-3117	EA		4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,221.96	284.74
			For Class 52 Rating, Deduct	-526.96	
			For Class 54 Rating, Add	723.76	
			For Class 55 Rating, Add	1,078.64	
			For Class 56 Rating, Add	1,428.74	
40 05 19 00-3118	EA		4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,346.43	287.90
			For Class 52 Rating, Deduct	-540.13	
			For Class 54 Rating, Add	741.77	
			For Class 55 Rating, Add	1,105.45	
			For Class 56 Rating, Add	1,464.22	
40 05 19 00-3119	EA		4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,470.89	291.05
			For Class 52 Rating, Deduct	-553.29	
			For Class 54 Rating, Add	759.78	
			For Class 55 Rating, Add	1,132.25	
			For Class 56 Rating, Add	1,499.70	
40 05 19 00-3120	EA		4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,595.36	294.21
			For Class 52 Rating, Deduct	-566.46	
			For Class 54 Rating, Add	777.79	
			For Class 55 Rating, Add	1,159.06	
			For Class 56 Rating, Add	1,535.18	
40 05 19 00-3121	EA		4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,719.82	297.37
			For Class 52 Rating, Deduct	-579.62	
			For Class 54 Rating, Add	795.80	
			For Class 55 Rating, Add	1,185.86	
			For Class 56 Rating, Add	1,570.66	
40 05 19 00-3122	EA		4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,844.30	300.53
			For Class 52 Rating, Deduct	-592.79	
			For Class 54 Rating, Add	813.81	
			For Class 55 Rating, Add	1,212.67	
			For Class 56 Rating, Add	1,606.14	
40 05 19 00-3123			6" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3124	EA		6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	990.04	227.29
			For Class 52 Rating, Deduct.....	-71.02	
			For Class 54 Rating, Add.....	100.98	
			For Class 55 Rating, Add.....	152.25	
			For Class 56 Rating, Add.....	202.87	
40 05 19 00-3125	EA		6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	1,133.40	230.45
			For Class 52 Rating, Deduct.....	-86.27	
			For Class 54 Rating, Add.....	121.83	
			For Class 55 Rating, Add.....	183.27	
			For Class 56 Rating, Add.....	243.92	
40 05 19 00-3126	EA		6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	1,276.77	233.60
			For Class 52 Rating, Deduct.....	-101.51	
			For Class 54 Rating, Add.....	142.67	
			For Class 55 Rating, Add.....	214.29	
			For Class 56 Rating, Add.....	284.98	
40 05 19 00-3127	EA		6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	1,420.14	236.76
			For Class 52 Rating, Deduct.....	-116.76	
			For Class 54 Rating, Add.....	163.52	
			For Class 55 Rating, Add.....	245.31	
			For Class 56 Rating, Add.....	326.03	
40 05 19 00-3128	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	1,563.51	239.92
			For Class 52 Rating, Deduct.....	-132.00	
			For Class 54 Rating, Add.....	184.36	
			For Class 55 Rating, Add.....	276.32	
			For Class 56 Rating, Add.....	367.09	
40 05 19 00-3129	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	1,706.87	243.07
			For Class 52 Rating, Deduct.....	-147.24	
			For Class 54 Rating, Add.....	205.21	
			For Class 55 Rating, Add.....	307.34	
			For Class 56 Rating, Add.....	408.14	
40 05 19 00-3130	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	1,850.22	246.23
			For Class 52 Rating, Deduct.....	-162.49	
			For Class 54 Rating, Add.....	226.05	
			For Class 55 Rating, Add.....	338.36	
			For Class 56 Rating, Add.....	449.19	
40 05 19 00-3131	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	1,993.59	249.39
			For Class 52 Rating, Deduct.....	-177.73	
			For Class 54 Rating, Add.....	246.90	
			For Class 55 Rating, Add.....	369.38	
			For Class 56 Rating, Add.....	490.25	
40 05 19 00-3132	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,136.96	252.55
			For Class 52 Rating, Deduct.....	-192.98	
			For Class 54 Rating, Add.....	267.74	
			For Class 55 Rating, Add.....	400.40	
			For Class 56 Rating, Add.....	531.30	
40 05 19 00-3133	EA		6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,280.33	255.69
			For Class 52 Rating, Deduct.....	-208.22	
			For Class 54 Rating, Add.....	288.59	
			For Class 55 Rating, Add.....	431.42	
			For Class 56 Rating, Add.....	572.36	
40 05 19 00-3134	EA		6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,423.69	258.85
			For Class 52 Rating, Deduct.....	-223.46	
			For Class 54 Rating, Add.....	309.43	
			For Class 55 Rating, Add.....	462.44	
			For Class 56 Rating, Add.....	613.41	
40 05 19 00-3135	EA		6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,567.06	262.01
			For Class 52 Rating, Deduct.....	-238.71	
			For Class 54 Rating, Add.....	330.27	
			For Class 55 Rating, Add.....	493.45	
			For Class 56 Rating, Add.....	654.46	
40 05 19 00-3136	EA		6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,710.43	265.16
			For Class 52 Rating, Deduct.....	-253.95	
			For Class 54 Rating, Add.....	351.12	
			For Class 55 Rating, Add.....	524.47	
			For Class 56 Rating, Add.....	695.52	
40 05 19 00-3137	EA		6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	2,853.79	268.32
			For Class 52 Rating, Deduct.....	-269.20	
			For Class 54 Rating, Add.....	371.96	
			For Class 55 Rating, Add.....	555.49	
			For Class 56 Rating, Add.....	736.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3138	EA		6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	2,997.15	271.48
			For Class 52 Rating, Deduct	-284.44	
			For Class 54 Rating, Add	392.81	
			For Class 55 Rating, Add	586.51	
			For Class 56 Rating, Add	777.62	
40 05 19 00-3139	EA		6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,140.51	274.64
			For Class 52 Rating, Deduct	-299.68	
			For Class 54 Rating, Add	413.65	
			For Class 55 Rating, Add	617.53	
			For Class 56 Rating, Add	818.68	
40 05 19 00-3140	EA		6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,283.89	277.79
			For Class 52 Rating, Deduct	-314.93	
			For Class 54 Rating, Add	434.50	
			For Class 55 Rating, Add	648.55	
			For Class 56 Rating, Add	859.73	
40 05 19 00-3141	EA		6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,427.25	280.95
			For Class 52 Rating, Deduct	-330.17	
			For Class 54 Rating, Add	455.34	
			For Class 55 Rating, Add	679.57	
			For Class 56 Rating, Add	900.79	
40 05 19 00-3142	EA		6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,570.61	284.11
			For Class 52 Rating, Deduct	-345.42	
			For Class 54 Rating, Add	476.19	
			For Class 55 Rating, Add	710.58	
			For Class 56 Rating, Add	941.84	
40 05 19 00-3143	EA		6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,713.98	287.27
			For Class 52 Rating, Deduct	-360.66	
			For Class 54 Rating, Add	497.03	
			For Class 55 Rating, Add	741.60	
			For Class 56 Rating, Add	982.89	
40 05 19 00-3144	EA		6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	3,857.35	290.42
			For Class 52 Rating, Deduct	-375.91	
			For Class 54 Rating, Add	517.88	
			For Class 55 Rating, Add	772.62	
			For Class 56 Rating, Add	1,023.95	
40 05 19 00-3145	EA		6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,000.72	293.57
			For Class 52 Rating, Deduct	-391.15	
			For Class 54 Rating, Add	538.72	
			For Class 55 Rating, Add	803.64	
			For Class 56 Rating, Add	1,065.00	
40 05 19 00-3146	EA		6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,144.07	296.73
			For Class 52 Rating, Deduct	-406.39	
			For Class 54 Rating, Add	559.57	
			For Class 55 Rating, Add	834.66	
			For Class 56 Rating, Add	1,106.06	
40 05 19 00-3147	EA		6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,287.44	299.88
			For Class 52 Rating, Deduct	-421.64	
			For Class 54 Rating, Add	580.41	
			For Class 55 Rating, Add	865.68	
			For Class 56 Rating, Add	1,147.11	
40 05 19 00-3148	EA		6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,430.81	303.04
			For Class 52 Rating, Deduct	-436.88	
			For Class 54 Rating, Add	601.26	
			For Class 55 Rating, Add	896.70	
			For Class 56 Rating, Add	1,188.17	
40 05 19 00-3149	EA		6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,574.17	306.20
			For Class 52 Rating, Deduct	-452.13	
			For Class 54 Rating, Add	622.10	
			For Class 55 Rating, Add	927.72	
			For Class 56 Rating, Add	1,229.22	
40 05 19 00-3150	EA		6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,717.54	309.37
			For Class 52 Rating, Deduct	-467.37	
			For Class 54 Rating, Add	642.95	
			For Class 55 Rating, Add	958.73	
			For Class 56 Rating, Add	1,270.27	
40 05 19 00-3151	EA		6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	4,860.90	312.51
			For Class 52 Rating, Deduct	-482.61	
			For Class 54 Rating, Add	663.79	
			For Class 55 Rating, Add	989.75	
			For Class 56 Rating, Add	1,311.33	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3152	EA		6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,004.28	315.67
			For Class 52 Rating, Deduct.....	-497.86	
			For Class 54 Rating, Add.....	684.64	
			For Class 55 Rating, Add.....	1,020.77	
			For Class 56 Rating, Add.....	1,352.38	
40 05 19 00-3153	EA		6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,147.64	318.84
			For Class 52 Rating, Deduct.....	-513.10	
			For Class 54 Rating, Add.....	705.48	
			For Class 55 Rating, Add.....	1,051.79	
			For Class 56 Rating, Add.....	1,393.44	
40 05 19 00-3154	EA		6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,290.99	321.98
			For Class 52 Rating, Deduct.....	-528.35	
			For Class 54 Rating, Add.....	726.33	
			For Class 55 Rating, Add.....	1,082.81	
			For Class 56 Rating, Add.....	1,434.49	
40 05 19 00-3155	EA		6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,434.36	325.15
			For Class 52 Rating, Deduct.....	-543.59	
			For Class 54 Rating, Add.....	747.17	
			For Class 55 Rating, Add.....	1,113.83	
			For Class 56 Rating, Add.....	1,475.54	
40 05 19 00-3156	EA		6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,577.72	328.31
			For Class 52 Rating, Deduct.....	-558.83	
			For Class 54 Rating, Add.....	768.01	
			For Class 55 Rating, Add.....	1,144.84	
			For Class 56 Rating, Add.....	1,516.60	
40 05 19 00-3157	EA		6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,721.10	331.47
			For Class 52 Rating, Deduct.....	-574.08	
			For Class 54 Rating, Add.....	788.86	
			For Class 55 Rating, Add.....	1,175.87	
			For Class 56 Rating, Add.....	1,557.65	
40 05 19 00-3158	EA		6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,864.46	334.61
			For Class 52 Rating, Deduct.....	-589.32	
			For Class 54 Rating, Add.....	809.70	
			For Class 55 Rating, Add.....	1,206.88	
			For Class 56 Rating, Add.....	1,598.71	
40 05 19 00-3159	EA		6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,007.83	337.77
			For Class 52 Rating, Deduct.....	-604.57	
			For Class 54 Rating, Add.....	830.55	
			For Class 55 Rating, Add.....	1,237.90	
			For Class 56 Rating, Add.....	1,639.76	
40 05 19 00-3160	EA		6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,151.19	340.93
			For Class 52 Rating, Deduct.....	-619.81	
			For Class 54 Rating, Add.....	851.39	
			For Class 55 Rating, Add.....	1,268.92	
			For Class 56 Rating, Add.....	1,680.81	
40 05 19 00-3161	EA		6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,294.56	344.08
			For Class 52 Rating, Deduct.....	-635.05	
			For Class 54 Rating, Add.....	872.24	
			For Class 55 Rating, Add.....	1,299.94	
			For Class 56 Rating, Add.....	1,721.87	
40 05 19 00-3162	EA		6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,437.92	347.24
			For Class 52 Rating, Deduct.....	-650.30	
			For Class 54 Rating, Add.....	893.08	
			For Class 55 Rating, Add.....	1,330.96	
			For Class 56 Rating, Add.....	1,762.92	

40 05 19 00-3163 8" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)

40 05 19 00-3164	EA		8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,350.26	290.42
			For Class 52 Rating, Deduct.....	-100.13	
			For Class 54 Rating, Add.....	141.81	
			For Class 55 Rating, Add.....	213.54	
			For Class 56 Rating, Add.....	264.36	
40 05 19 00-3165	EA		8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,534.58	293.57
			For Class 52 Rating, Deduct.....	-119.87	
			For Class 54 Rating, Add.....	168.80	
			For Class 55 Rating, Add.....	253.69	
			For Class 56 Rating, Add.....	337.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3166	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	1,718.88	296.73	
		For Class 52 Rating, Deduct	-139.62		
		For Class 54 Rating, Add	195.79		
		For Class 55 Rating, Add	293.84		
		For Class 56 Rating, Add	390.63		
40 05 19 00-3167	EA	8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	1,903.20	299.88	
		For Class 52 Rating, Deduct	-159.37		
		For Class 54 Rating, Add	222.78		
		For Class 55 Rating, Add	333.99		
		For Class 56 Rating, Add	443.76		
40 05 19 00-3168	EA	8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,087.50	303.04	
		For Class 52 Rating, Deduct	-179.12		
		For Class 54 Rating, Add	249.76		
		For Class 55 Rating, Add	374.14		
		For Class 56 Rating, Add	496.89		
40 05 19 00-3169	EA	8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,271.81	306.20	
		For Class 52 Rating, Deduct	-198.87		
		For Class 54 Rating, Add	276.75		
		For Class 55 Rating, Add	414.29		
		For Class 56 Rating, Add	550.02		
40 05 19 00-3170	EA	8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,456.13	309.37	
		For Class 52 Rating, Deduct	-218.61		
		For Class 54 Rating, Add	303.73		
		For Class 55 Rating, Add	454.44		
		For Class 56 Rating, Add	603.16		
40 05 19 00-3171	EA	8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,640.43	312.51	
		For Class 52 Rating, Deduct	-238.36		
		For Class 54 Rating, Add	330.72		
		For Class 55 Rating, Add	494.59		
		For Class 56 Rating, Add	656.29		
40 05 19 00-3172	EA	8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	2,824.75	315.67	
		For Class 52 Rating, Deduct	-258.11		
		For Class 54 Rating, Add	357.71		
		For Class 55 Rating, Add	534.74		
		For Class 56 Rating, Add	709.42		
40 05 19 00-3173	EA	8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,009.06	318.84	
		For Class 52 Rating, Deduct	-277.86		
		For Class 54 Rating, Add	384.69		
		For Class 55 Rating, Add	574.89		
		For Class 56 Rating, Add	762.55		
40 05 19 00-3174	EA	8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,193.36	321.98	
		For Class 52 Rating, Deduct	-297.61		
		For Class 54 Rating, Add	411.68		
		For Class 55 Rating, Add	615.04		
		For Class 56 Rating, Add	815.69		
40 05 19 00-3175	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,377.67	325.15	
		For Class 52 Rating, Deduct	-317.35		
		For Class 54 Rating, Add	438.67		
		For Class 55 Rating, Add	655.19		
		For Class 56 Rating, Add	868.82		
40 05 19 00-3176	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,561.98	328.31	
		For Class 52 Rating, Deduct	-337.10		
		For Class 54 Rating, Add	465.65		
		For Class 55 Rating, Add	695.33		
		For Class 56 Rating, Add	921.95		
40 05 19 00-3177	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,746.30	331.47	
		For Class 52 Rating, Deduct	-356.85		
		For Class 54 Rating, Add	492.64		
		For Class 55 Rating, Add	735.49		
		For Class 56 Rating, Add	975.09		
40 05 19 00-3178	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	3,930.61	334.61	
		For Class 52 Rating, Deduct	-376.60		
		For Class 54 Rating, Add	519.63		
		For Class 55 Rating, Add	775.64		
		For Class 56 Rating, Add	1,028.22		
40 05 19 00-3179	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	4,114.92	337.77	
		For Class 52 Rating, Deduct	-396.35		
		For Class 54 Rating, Add	546.61		
		For Class 55 Rating, Add	815.78		
		For Class 56 Rating, Add	1,081.35		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3180	EA		8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,299.23	340.93
			For Class 52 Rating, Deduct.....	-416.09	
			For Class 54 Rating, Add.....	573.60	
			For Class 55 Rating, Add.....	855.93	
			For Class 56 Rating, Add.....	1,134.48	
40 05 19 00-3181	EA		8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,483.54	344.08
			For Class 52 Rating, Deduct.....	-435.84	
			For Class 54 Rating, Add.....	600.59	
			For Class 55 Rating, Add.....	896.08	
			For Class 56 Rating, Add.....	1,187.62	
40 05 19 00-3182	EA		8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,667.84	347.24
			For Class 52 Rating, Deduct.....	-455.59	
			For Class 54 Rating, Add.....	627.57	
			For Class 55 Rating, Add.....	936.23	
			For Class 56 Rating, Add.....	1,240.75	
40 05 19 00-3183	EA		8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,852.15	350.40
			For Class 52 Rating, Deduct.....	-475.34	
			For Class 54 Rating, Add.....	654.56	
			For Class 55 Rating, Add.....	976.38	
			For Class 56 Rating, Add.....	1,293.88	
40 05 19 00-3184	EA		8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,036.47	353.56
			For Class 52 Rating, Deduct.....	-495.09	
			For Class 54 Rating, Add.....	681.55	
			For Class 55 Rating, Add.....	1,016.53	
			For Class 56 Rating, Add.....	1,347.01	
40 05 19 00-3185	EA		8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,220.78	356.71
			For Class 52 Rating, Deduct.....	-514.83	
			For Class 54 Rating, Add.....	708.53	
			For Class 55 Rating, Add.....	1,056.68	
			For Class 56 Rating, Add.....	1,400.15	
40 05 19 00-3186	EA		8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,405.08	359.87
			For Class 52 Rating, Deduct.....	-534.58	
			For Class 54 Rating, Add.....	735.52	
			For Class 55 Rating, Add.....	1,096.83	
			For Class 56 Rating, Add.....	1,453.28	
40 05 19 00-3187	EA		8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,589.40	363.03
			For Class 52 Rating, Deduct.....	-554.33	
			For Class 54 Rating, Add.....	762.50	
			For Class 55 Rating, Add.....	1,136.98	
			For Class 56 Rating, Add.....	1,506.41	
40 05 19 00-3188	EA		8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,773.71	366.19
			For Class 52 Rating, Deduct.....	-574.08	
			For Class 54 Rating, Add.....	789.49	
			For Class 55 Rating, Add.....	1,177.13	
			For Class 56 Rating, Add.....	1,559.55	
40 05 19 00-3189	EA		8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,958.02	369.33
			For Class 52 Rating, Deduct.....	-593.83	
			For Class 54 Rating, Add.....	816.48	
			For Class 55 Rating, Add.....	1,217.28	
			For Class 56 Rating, Add.....	1,612.68	
40 05 19 00-3190	EA		8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,142.33	372.49
			For Class 52 Rating, Deduct.....	-613.57	
			For Class 54 Rating, Add.....	843.46	
			For Class 55 Rating, Add.....	1,257.43	
			For Class 56 Rating, Add.....	1,665.81	
40 05 19 00-3191	EA		8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,326.64	375.65
			For Class 52 Rating, Deduct.....	-633.32	
			For Class 54 Rating, Add.....	870.45	
			For Class 55 Rating, Add.....	1,297.58	
			For Class 56 Rating, Add.....	1,718.94	
40 05 19 00-3192	EA		8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,510.95	378.80
			For Class 52 Rating, Deduct.....	-653.07	
			For Class 54 Rating, Add.....	897.44	
			For Class 55 Rating, Add.....	1,337.73	
			For Class 56 Rating, Add.....	1,772.08	
40 05 19 00-3193	EA		8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,695.25	381.96
			For Class 52 Rating, Deduct.....	-672.82	
			For Class 54 Rating, Add.....	924.42	
			For Class 55 Rating, Add.....	1,377.87	
			For Class 56 Rating, Add.....	1,825.21	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3194	EA	8"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,879.57	385.12
			For Class 52 Rating, Deduct.....	-692.57	
			For Class 54 Rating, Add.....	951.41	
			For Class 55 Rating, Add.....	1,418.02	
			For Class 56 Rating, Add.....	1,878.34	
40 05 19 00-3195	EA	8"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,063.88	388.28
			For Class 52 Rating, Deduct.....	-712.31	
			For Class 54 Rating, Add.....	978.40	
			For Class 55 Rating, Add.....	1,458.17	
			For Class 56 Rating, Add.....	1,931.47	
40 05 19 00-3196	EA	8"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,248.19	391.43
			For Class 52 Rating, Deduct.....	-732.06	
			For Class 54 Rating, Add.....	1,005.38	
			For Class 55 Rating, Add.....	1,498.32	
			For Class 56 Rating, Add.....	1,984.61	
40 05 19 00-3197	EA	8"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,432.50	394.59
			For Class 52 Rating, Deduct.....	-751.61	
			For Class 54 Rating, Add.....	1,032.37	
			For Class 55 Rating, Add.....	1,538.47	
			For Class 56 Rating, Add.....	2,037.74	
40 05 19 00-3198	EA	8"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,616.81	397.75
			For Class 52 Rating, Deduct.....	-771.56	
			For Class 54 Rating, Add.....	1,059.36	
			For Class 55 Rating, Add.....	1,578.62	
			For Class 56 Rating, Add.....	2,090.87	
40 05 19 00-3199	EA	8"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,801.12	400.90
			For Class 52 Rating, Deduct.....	-791.31	
			For Class 54 Rating, Add.....	1,086.34	
			For Class 55 Rating, Add.....	1,618.77	
			For Class 56 Rating, Add.....	2,144.01	
40 05 19 00-3200	EA	8"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,985.42	404.06
			For Class 52 Rating, Deduct.....	-811.05	
			For Class 54 Rating, Add.....	1,113.33	
			For Class 55 Rating, Add.....	1,658.92	
			For Class 56 Rating, Add.....	2,197.14	
40 05 19 00-3201	EA	8"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,169.74	407.23
			For Class 52 Rating, Deduct.....	-830.80	
			For Class 54 Rating, Add.....	1,140.32	
			For Class 55 Rating, Add.....	1,699.07	
			For Class 56 Rating, Add.....	2,250.27	
40 05 19 00-3202	EA	8"	Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,354.05	410.39
			For Class 52 Rating, Deduct.....	-850.55	
			For Class 54 Rating, Add.....	1,167.30	
			For Class 55 Rating, Add.....	1,739.22	
			For Class 56 Rating, Add.....	2,303.40	
40 05 19 00-3203			10" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3204	EA	10"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,704.19	353.56
			For Class 52 Rating, Deduct.....	-128.54	
			For Class 54 Rating, Add.....	181.70	
			For Class 55 Rating, Add.....	273.43	
			For Class 56 Rating, Add.....	363.99	
40 05 19 00-3205	EA	10"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,942.04	356.71
			For Class 52 Rating, Deduct.....	-154.17	
			For Class 54 Rating, Add.....	216.72	
			For Class 55 Rating, Add.....	325.52	
			For Class 56 Rating, Add.....	432.92	
40 05 19 00-3206	EA	10"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,179.89	359.87
			For Class 52 Rating, Deduct.....	-179.81	
			For Class 54 Rating, Add.....	251.74	
			For Class 55 Rating, Add.....	377.61	
			For Class 56 Rating, Add.....	501.65	
40 05 19 00-3207	EA	10"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,417.75	363.03
			For Class 52 Rating, Deduct.....	-205.45	
			For Class 54 Rating, Add.....	286.76	
			For Class 55 Rating, Add.....	429.70	
			For Class 56 Rating, Add.....	570.78	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3208	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,655.60		366.19
		For Class 52 Rating, Deduct	-231.09		
		For Class 54 Rating, Add	321.77		
		For Class 55 Rating, Add	481.79		
		For Class 56 Rating, Add	639.70		
40 05 19 00-3209	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,893.46		369.33
		For Class 52 Rating, Deduct	-256.72		
		For Class 54 Rating, Add	356.79		
		For Class 55 Rating, Add	533.88		
		For Class 56 Rating, Add	708.63		
40 05 19 00-3210	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,131.31		372.49
		For Class 52 Rating, Deduct	-282.36		
		For Class 54 Rating, Add	391.81		
		For Class 55 Rating, Add	585.97		
		For Class 56 Rating, Add	777.56		
40 05 19 00-3211	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,369.16		375.65
		For Class 52 Rating, Deduct	-308.00		
		For Class 54 Rating, Add	426.83		
		For Class 55 Rating, Add	638.06		
		For Class 56 Rating, Add	846.49		
40 05 19 00-3212	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,607.01		378.80
		For Class 52 Rating, Deduct	-333.64		
		For Class 54 Rating, Add	461.85		
		For Class 55 Rating, Add	690.15		
		For Class 56 Rating, Add	915.41		
40 05 19 00-3213	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,844.87		381.96
		For Class 52 Rating, Deduct	-359.28		
		For Class 54 Rating, Add	496.87		
		For Class 55 Rating, Add	742.24		
		For Class 56 Rating, Add	984.35		
40 05 19 00-3214	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,082.73		385.12
		For Class 52 Rating, Deduct	-384.91		
		For Class 54 Rating, Add	531.88		
		For Class 55 Rating, Add	794.33		
		For Class 56 Rating, Add	1,053.27		
40 05 19 00-3215	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,320.58		388.28
		For Class 52 Rating, Deduct	-410.55		
		For Class 54 Rating, Add	566.90		
		For Class 55 Rating, Add	846.42		
		For Class 56 Rating, Add	1,122.20		
40 05 19 00-3216	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,558.44		391.43
		For Class 52 Rating, Deduct	-436.19		
		For Class 54 Rating, Add	601.92		
		For Class 55 Rating, Add	898.51		
		For Class 56 Rating, Add	1,191.13		
40 05 19 00-3217	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,796.29		394.59
		For Class 52 Rating, Deduct	-461.83		
		For Class 54 Rating, Add	636.94		
		For Class 55 Rating, Add	950.60		
		For Class 56 Rating, Add	1,260.06		
40 05 19 00-3218	EA	10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,034.14		397.75
		For Class 52 Rating, Deduct	-487.46		
		For Class 54 Rating, Add	671.96		
		For Class 55 Rating, Add	1,002.69		
		For Class 56 Rating, Add	1,328.98		
40 05 19 00-3219	EA	10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,271.99		400.90
		For Class 52 Rating, Deduct	-513.10		
		For Class 54 Rating, Add	706.97		
		For Class 55 Rating, Add	1,054.78		
		For Class 56 Rating, Add	1,397.91		
40 05 19 00-3220	EA	10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,509.84		404.06
		For Class 52 Rating, Deduct	-538.74		
		For Class 54 Rating, Add	741.99		
		For Class 55 Rating, Add	1,106.86		
		For Class 56 Rating, Add	1,466.84		
40 05 19 00-3221	EA	10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,747.70		407.23
		For Class 52 Rating, Deduct	-564.38		
		For Class 54 Rating, Add	777.01		
		For Class 55 Rating, Add	1,158.95		
		For Class 56 Rating, Add	1,535.77		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3222	EA	10"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	5,985.55	410.39
			For Class 52 Rating, Deduct	-590.01	
			For Class 54 Rating, Add	812.03	
			For Class 55 Rating, Add	1,211.04	
			For Class 56 Rating, Add	1,604.70	
40 05 19 00-3223	EA	10"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,223.41	413.52
			For Class 52 Rating, Deduct	-615.65	
			For Class 54 Rating, Add	847.04	
			For Class 55 Rating, Add	1,263.13	
			For Class 56 Rating, Add	1,673.62	
40 05 19 00-3224	EA	10"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,461.26	416.69
			For Class 52 Rating, Deduct	-641.29	
			For Class 54 Rating, Add	882.06	
			For Class 55 Rating, Add	1,315.22	
			For Class 56 Rating, Add	1,742.55	
40 05 19 00-3225	EA	10"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,699.11	419.85
			For Class 52 Rating, Deduct	-666.93	
			For Class 54 Rating, Add	917.08	
			For Class 55 Rating, Add	1,367.31	
			For Class 56 Rating, Add	1,811.48	
40 05 19 00-3226	EA	10"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,936.97	423.00
			For Class 52 Rating, Deduct	-692.57	
			For Class 54 Rating, Add	952.10	
			For Class 55 Rating, Add	1,419.40	
			For Class 56 Rating, Add	1,880.41	
40 05 19 00-3227	EA	10"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,174.81	426.16
			For Class 52 Rating, Deduct	-718.20	
			For Class 54 Rating, Add	987.12	
			For Class 55 Rating, Add	1,471.49	
			For Class 56 Rating, Add	1,949.34	
40 05 19 00-3228	EA	10"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,412.67	429.32
			For Class 52 Rating, Deduct	-743.84	
			For Class 54 Rating, Add	1,022.13	
			For Class 55 Rating, Add	1,523.58	
			For Class 56 Rating, Add	2,018.26	
40 05 19 00-3229	EA	10"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,650.52	432.48
			For Class 52 Rating, Deduct	-769.48	
			For Class 54 Rating, Add	1,057.15	
			For Class 55 Rating, Add	1,575.67	
			For Class 56 Rating, Add	2,087.19	
40 05 19 00-3230	EA	10"	Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,888.37	435.63
			For Class 52 Rating, Deduct	-795.12	
			For Class 54 Rating, Add	1,092.17	
			For Class 55 Rating, Add	1,627.76	
			For Class 56 Rating, Add	2,156.12	
40 05 19 00-3231	EA	10"	Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,126.23	438.79
			For Class 52 Rating, Deduct	-820.75	
			For Class 54 Rating, Add	1,127.19	
			For Class 55 Rating, Add	1,679.85	
			For Class 56 Rating, Add	2,225.05	
40 05 19 00-3232	EA	10"	Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,364.08	441.95
			For Class 52 Rating, Deduct	-846.39	
			For Class 54 Rating, Add	1,162.21	
			For Class 55 Rating, Add	1,731.94	
			For Class 56 Rating, Add	2,293.97	
40 05 19 00-3233	EA	10"	Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,601.94	445.11
			For Class 52 Rating, Deduct	-872.03	
			For Class 54 Rating, Add	1,197.22	
			For Class 55 Rating, Add	1,784.03	
			For Class 56 Rating, Add	2,362.90	
40 05 19 00-3234	EA	10"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,839.79	448.25
			For Class 52 Rating, Deduct	-897.67	
			For Class 54 Rating, Add	1,232.24	
			For Class 55 Rating, Add	1,836.12	
			For Class 56 Rating, Add	2,431.83	
40 05 19 00-3235	EA	10"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	9,077.64	451.41
			For Class 52 Rating, Deduct	-923.30	
			For Class 54 Rating, Add	1,267.26	
			For Class 55 Rating, Add	1,888.21	
			For Class 56 Rating, Add	2,500.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3236	EA		10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,315.49	454.57
			For Class 52 Rating, Deduct.....	-948.94	
			For Class 54 Rating, Add.....	1,302.28	
			For Class 55 Rating, Add.....	1,940.30	
			For Class 56 Rating, Add.....	2,569.69	
40 05 19 00-3237	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,553.34	457.72
			For Class 52 Rating, Deduct.....	-974.58	
			For Class 54 Rating, Add.....	1,337.30	
			For Class 55 Rating, Add.....	1,992.38	
			For Class 56 Rating, Add.....	2,638.61	
40 05 19 00-3238	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,791.21	460.88
			For Class 52 Rating, Deduct.....	-1,000.22	
			For Class 54 Rating, Add.....	1,372.31	
			For Class 55 Rating, Add.....	2,044.48	
			For Class 56 Rating, Add.....	2,707.54	
40 05 19 00-3239	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,029.06	464.04
			For Class 52 Rating, Deduct.....	-1,025.86	
			For Class 54 Rating, Add.....	1,407.33	
			For Class 55 Rating, Add.....	2,096.57	
			For Class 56 Rating, Add.....	2,776.47	
40 05 19 00-3240	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,266.92	467.20
			For Class 52 Rating, Deduct.....	-1,051.49	
			For Class 54 Rating, Add.....	1,442.35	
			For Class 55 Rating, Add.....	2,148.66	
			For Class 56 Rating, Add.....	2,845.40	
40 05 19 00-3241	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,504.77	470.35
			For Class 52 Rating, Deduct.....	-1,077.13	
			For Class 54 Rating, Add.....	1,477.37	
			For Class 55 Rating, Add.....	2,200.74	
			For Class 56 Rating, Add.....	2,914.33	
40 05 19 00-3242	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,742.62	473.51
			For Class 52 Rating, Deduct.....	-1,102.77	
			For Class 54 Rating, Add.....	1,512.39	
			For Class 55 Rating, Add.....	2,252.83	
			For Class 56 Rating, Add.....	2,983.26	

40 05 19 00-3243 12" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-3082)

40 05 19 00-3244	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,212.91	441.95
			For Class 52 Rating, Deduct.....	-169.76	
			For Class 54 Rating, Add.....	239.53	
			For Class 55 Rating, Add.....	360.23	
			For Class 56 Rating, Add.....	479.38	
40 05 19 00-3245	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,507.47	445.11
			For Class 52 Rating, Deduct.....	-201.64	
			For Class 54 Rating, Add.....	283.05	
			For Class 55 Rating, Add.....	424.96	
			For Class 56 Rating, Add.....	565.03	
40 05 19 00-3246	EA		12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,802.01	448.25
			For Class 52 Rating, Deduct.....	-233.51	
			For Class 54 Rating, Add.....	326.57	
			For Class 55 Rating, Add.....	489.69	
			For Class 56 Rating, Add.....	650.69	
40 05 19 00-3247	EA		12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,096.55	451.41
			For Class 52 Rating, Deduct.....	-265.38	
			For Class 54 Rating, Add.....	370.10	
			For Class 55 Rating, Add.....	554.42	
			For Class 56 Rating, Add.....	736.34	
40 05 19 00-3248	EA		12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,391.10	454.57
			For Class 52 Rating, Deduct.....	-297.26	
			For Class 54 Rating, Add.....	413.62	
			For Class 55 Rating, Add.....	619.16	
			For Class 56 Rating, Add.....	821.99	
40 05 19 00-3249	EA		12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,685.64	457.72
			For Class 52 Rating, Deduct.....	-329.13	
			For Class 54 Rating, Add.....	457.14	
			For Class 55 Rating, Add.....	683.89	
			For Class 56 Rating, Add.....	907.64	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3250	EA	12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	3,980.19	460.88
		For Class 52 Rating, Deduct		-361.01	
		For Class 54 Rating, Add		500.66	
		For Class 55 Rating, Add		748.62	
		For Class 56 Rating, Add		993.29	
40 05 19 00-3251	EA	12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	4,274.74	464.04
		For Class 52 Rating, Deduct		-392.88	
		For Class 54 Rating, Add		544.18	
		For Class 55 Rating, Add		813.35	
		For Class 56 Rating, Add		1,078.95	
40 05 19 00-3252	EA	12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	4,569.29	467.20
		For Class 52 Rating, Deduct		-424.76	
		For Class 54 Rating, Add		587.71	
		For Class 55 Rating, Add		878.08	
		For Class 56 Rating, Add		1,164.60	
40 05 19 00-3253	EA	12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	4,863.83	470.35
		For Class 52 Rating, Deduct		-456.63	
		For Class 54 Rating, Add		631.23	
		For Class 55 Rating, Add		942.81	
		For Class 56 Rating, Add		1,250.25	
40 05 19 00-3254	EA	12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	5,158.38	473.51
		For Class 52 Rating, Deduct		-488.50	
		For Class 54 Rating, Add		674.75	
		For Class 55 Rating, Add		1,007.55	
		For Class 56 Rating, Add		1,335.91	
40 05 19 00-3255	EA	12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	5,452.92	476.67
		For Class 52 Rating, Deduct		-520.38	
		For Class 54 Rating, Add		718.27	
		For Class 55 Rating, Add		1,072.28	
		For Class 56 Rating, Add		1,421.56	
40 05 19 00-3256	EA	12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	5,747.46	479.82
		For Class 52 Rating, Deduct		-552.25	
		For Class 54 Rating, Add		761.79	
		For Class 55 Rating, Add		1,137.01	
		For Class 56 Rating, Add		1,507.21	
40 05 19 00-3257	EA	12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	6,042.02	482.98
		For Class 52 Rating, Deduct		-584.13	
		For Class 54 Rating, Add		805.32	
		For Class 55 Rating, Add		1,201.74	
		For Class 56 Rating, Add		1,592.86	
40 05 19 00-3258	EA	12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	6,336.56	486.14
		For Class 52 Rating, Deduct		-616.00	
		For Class 54 Rating, Add		848.84	
		For Class 55 Rating, Add		1,266.48	
		For Class 56 Rating, Add		1,678.51	
40 05 19 00-3259	EA	12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	6,631.11	489.29
		For Class 52 Rating, Deduct		-647.87	
		For Class 54 Rating, Add		892.36	
		For Class 55 Rating, Add		1,331.21	
		For Class 56 Rating, Add		1,764.17	
40 05 19 00-3260	EA	12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	6,925.66	492.44
		For Class 52 Rating, Deduct		-679.75	
		For Class 54 Rating, Add		935.88	
		For Class 55 Rating, Add		1,395.94	
		For Class 56 Rating, Add		1,849.82	
40 05 19 00-3261	EA	12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	7,220.20	495.60
		For Class 52 Rating, Deduct		-711.62	
		For Class 54 Rating, Add		979.40	
		For Class 55 Rating, Add		1,460.67	
		For Class 56 Rating, Add		1,935.47	
40 05 19 00-3262	EA	12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	7,514.75	498.77
		For Class 52 Rating, Deduct		-743.49	
		For Class 54 Rating, Add		1,022.92	
		For Class 55 Rating, Add		1,525.40	
		For Class 56 Rating, Add		2,021.12	
40 05 19 00-3263	EA	12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal	Coat, Ductile Iron Pipe.....	7,809.28	501.91
		For Class 52 Rating, Deduct		-775.37	
		For Class 54 Rating, Add		1,066.45	
		For Class 55 Rating, Add		1,590.13	
		For Class 56 Rating, Add		2,106.77	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3264	EA		12" Flanged x Plain End (FxE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,103.84	505.08
			For Class 52 Rating, Deduct.....	-807.24	
			For Class 54 Rating, Add.....	1,109.97	
			For Class 55 Rating, Add.....	1,654.87	
			For Class 56 Rating, Add.....	2,192.43	
40 05 19 00-3265	EA		12" Flanged x Plain End (FxE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,398.38	508.24
			For Class 52 Rating, Deduct.....	-839.12	
			For Class 54 Rating, Add.....	1,153.49	
			For Class 55 Rating, Add.....	1,719.60	
			For Class 56 Rating, Add.....	2,278.08	
40 05 19 00-3266	EA		12" Flanged x Plain End (FxE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,692.92	511.40
			For Class 52 Rating, Deduct.....	-870.99	
			For Class 54 Rating, Add.....	1,197.01	
			For Class 55 Rating, Add.....	1,784.33	
			For Class 56 Rating, Add.....	2,363.73	
40 05 19 00-3267	EA		12" Flanged x Plain End (FxE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,987.48	514.55
			For Class 52 Rating, Deduct.....	-902.86	
			For Class 54 Rating, Add.....	1,240.53	
			For Class 55 Rating, Add.....	1,849.06	
			For Class 56 Rating, Add.....	2,449.39	
40 05 19 00-3268	EA		12" Flanged x Plain End (FxE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,282.02	517.71
			For Class 52 Rating, Deduct.....	-934.74	
			For Class 54 Rating, Add.....	1,284.06	
			For Class 55 Rating, Add.....	1,913.79	
			For Class 56 Rating, Add.....	2,535.04	
40 05 19 00-3269	EA		12" Flanged x Plain End (FxE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,576.57	520.87
			For Class 52 Rating, Deduct.....	-966.61	
			For Class 54 Rating, Add.....	1,327.58	
			For Class 55 Rating, Add.....	1,978.53	
			For Class 56 Rating, Add.....	2,620.69	
40 05 19 00-3270	EA		12" Flanged x Plain End (FxE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,871.12	524.03
			For Class 52 Rating, Deduct.....	-998.49	
			For Class 54 Rating, Add.....	1,371.10	
			For Class 55 Rating, Add.....	2,043.26	
			For Class 56 Rating, Add.....	2,706.34	
40 05 19 00-3271	EA		12" Flanged x Plain End (FxE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	10,165.67	527.17
			For Class 52 Rating, Deduct.....	-1,030.36	
			For Class 54 Rating, Add.....	1,414.62	
			For Class 55 Rating, Add.....	2,107.99	
			For Class 56 Rating, Add.....	2,791.99	
40 05 19 00-3272	EA		12" Flanged x Plain End (FxE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	10,460.20	530.33
			For Class 52 Rating, Deduct.....	-1,062.23	
			For Class 54 Rating, Add.....	1,458.14	
			For Class 55 Rating, Add.....	2,172.72	
			For Class 56 Rating, Add.....	2,877.64	
40 05 19 00-3273	EA		12" Flanged x Plain End (FxE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	10,754.75	533.49
			For Class 52 Rating, Deduct.....	-1,094.11	
			For Class 54 Rating, Add.....	1,501.67	
			For Class 55 Rating, Add.....	2,237.46	
			For Class 56 Rating, Add.....	2,963.30	
40 05 19 00-3274	EA		12" Flanged x Plain End (FxE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	11,049.30	536.64
			For Class 52 Rating, Deduct.....	-1,125.98	
			For Class 54 Rating, Add.....	1,545.19	
			For Class 55 Rating, Add.....	2,302.19	
			For Class 56 Rating, Add.....	3,048.95	
40 05 19 00-3275	EA		12" Flanged x Plain End (FxE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	11,343.84	539.80
			For Class 52 Rating, Deduct.....	-1,157.86	
			For Class 54 Rating, Add.....	1,588.71	
			For Class 55 Rating, Add.....	2,366.92	
			For Class 56 Rating, Add.....	3,134.60	
40 05 19 00-3276	EA		12" Flanged x Plain End (FxE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	11,638.40	542.96
			For Class 52 Rating, Deduct.....	-1,189.73	
			For Class 54 Rating, Add.....	1,632.23	
			For Class 55 Rating, Add.....	2,431.65	
			For Class 56 Rating, Add.....	3,220.26	
40 05 19 00-3277	EA		12" Flanged x Plain End (FxE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	11,932.94	546.12
			For Class 52 Rating, Deduct.....	-1,221.60	
			For Class 54 Rating, Add.....	1,675.75	
			For Class 55 Rating, Add.....	2,496.38	
			For Class 56 Rating, Add.....	3,305.91	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3278	EA	12"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,227.48	549.27
			For Class 52 Rating, Deduct.....	-1,253.48	
			For Class 54 Rating, Add.....	1,719.27	
			For Class 55 Rating, Add.....	2,561.11	
			For Class 56 Rating, Add.....	3,391.56	
40 05 19 00-3279	EA	12"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,522.04	552.43
			For Class 52 Rating, Deduct.....	-1,285.35	
			For Class 54 Rating, Add.....	1,762.80	
			For Class 55 Rating, Add.....	2,625.85	
			For Class 56 Rating, Add.....	3,477.21	
40 05 19 00-3280	EA	12"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,816.57	555.59
			For Class 52 Rating, Deduct.....	-1,317.23	
			For Class 54 Rating, Add.....	1,806.32	
			For Class 55 Rating, Add.....	2,690.58	
			For Class 56 Rating, Add.....	3,562.86	
40 05 19 00-3281	EA	12"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,111.12	558.74
			For Class 52 Rating, Deduct.....	-1,349.10	
			For Class 54 Rating, Add.....	1,849.84	
			For Class 55 Rating, Add.....	2,755.31	
			For Class 56 Rating, Add.....	3,648.52	
40 05 19 00-3282	EA	12"	Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,405.67	561.90
			For Class 52 Rating, Deduct.....	-1,380.97	
			For Class 54 Rating, Add.....	1,893.36	
			For Class 55 Rating, Add.....	2,820.04	
			For Class 56 Rating, Add.....	3,734.17	
40 05 19 00-3283			14" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3284	EA	14"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,979.90	530.33
			For Class 52 Rating, Deduct.....	-239.40	
			For Class 54 Rating, Add.....	336.10	
			For Class 55 Rating, Add.....	504.62	
			For Class 56 Rating, Add.....	670.96	
40 05 19 00-3285	EA	14"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,337.44	533.49
			For Class 52 Rating, Deduct.....	-278.20	
			For Class 54 Rating, Add.....	389.07	
			For Class 55 Rating, Add.....	583.40	
			For Class 56 Rating, Add.....	775.19	
40 05 19 00-3286	EA	14"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,694.98	536.64
			For Class 52 Rating, Deduct.....	-317.01	
			For Class 54 Rating, Add.....	442.04	
			For Class 55 Rating, Add.....	662.17	
			For Class 56 Rating, Add.....	879.43	
40 05 19 00-3287	EA	14"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,052.52	539.80
			For Class 52 Rating, Deduct.....	-355.81	
			For Class 54 Rating, Add.....	495.01	
			For Class 55 Rating, Add.....	740.95	
			For Class 56 Rating, Add.....	983.66	
40 05 19 00-3288	EA	14"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,410.06	542.96
			For Class 52 Rating, Deduct.....	-394.61	
			For Class 54 Rating, Add.....	547.98	
			For Class 55 Rating, Add.....	819.73	
			For Class 56 Rating, Add.....	1,087.90	
40 05 19 00-3289	EA	14"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,767.60	546.12
			For Class 52 Rating, Deduct.....	-433.42	
			For Class 54 Rating, Add.....	600.95	
			For Class 55 Rating, Add.....	898.51	
			For Class 56 Rating, Add.....	1,192.13	
40 05 19 00-3290	EA	14"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,125.13	549.27
			For Class 52 Rating, Deduct.....	-472.22	
			For Class 54 Rating, Add.....	653.92	
			For Class 55 Rating, Add.....	977.29	
			For Class 56 Rating, Add.....	1,296.37	
40 05 19 00-3291	EA	14"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,482.68	552.43
			For Class 52 Rating, Deduct.....	-511.02	
			For Class 54 Rating, Add.....	706.89	
			For Class 55 Rating, Add.....	1,056.07	
			For Class 56 Rating, Add.....	1,400.60	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3292	EA		14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,840.21	555.59
			For Class 52 Rating, Deduct.....	-549.83	
			For Class 54 Rating, Add.....	759.86	
			For Class 55 Rating, Add.....	1,134.85	
			For Class 56 Rating, Add.....	1,504.84	
40 05 19 00-3293	EA		14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,197.75	558.74
			For Class 52 Rating, Deduct.....	-588.63	
			For Class 54 Rating, Add.....	812.83	
			For Class 55 Rating, Add.....	1,213.63	
			For Class 56 Rating, Add.....	1,609.07	
40 05 19 00-3294	EA		14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,555.29	561.90
			For Class 52 Rating, Deduct.....	-627.43	
			For Class 54 Rating, Add.....	865.81	
			For Class 55 Rating, Add.....	1,292.41	
			For Class 56 Rating, Add.....	1,713.31	
40 05 19 00-3295	EA		14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,912.83	565.06
			For Class 52 Rating, Deduct.....	-666.23	
			For Class 54 Rating, Add.....	918.78	
			For Class 55 Rating, Add.....	1,371.19	
			For Class 56 Rating, Add.....	1,817.54	
40 05 19 00-3296	EA		14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	7,270.37	568.21
			For Class 52 Rating, Deduct.....	-705.04	
			For Class 54 Rating, Add.....	971.75	
			For Class 55 Rating, Add.....	1,449.97	
			For Class 56 Rating, Add.....	1,921.78	
40 05 19 00-3297	EA		14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	7,627.90	571.36
			For Class 52 Rating, Deduct.....	-743.84	
			For Class 54 Rating, Add.....	1,024.72	
			For Class 55 Rating, Add.....	1,528.75	
			For Class 56 Rating, Add.....	2,026.01	
40 05 19 00-3298	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	7,985.45	574.52
			For Class 52 Rating, Deduct.....	-782.64	
			For Class 54 Rating, Add.....	1,077.69	
			For Class 55 Rating, Add.....	1,607.53	
			For Class 56 Rating, Add.....	2,130.25	
40 05 19 00-3299	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,342.98	577.68
			For Class 52 Rating, Deduct.....	-821.45	
			For Class 54 Rating, Add.....	1,130.66	
			For Class 55 Rating, Add.....	1,686.30	
			For Class 56 Rating, Add.....	2,234.48	
40 05 19 00-3300	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,700.52	580.83
			For Class 52 Rating, Deduct.....	-860.25	
			For Class 54 Rating, Add.....	1,183.63	
			For Class 55 Rating, Add.....	1,765.08	
			For Class 56 Rating, Add.....	2,338.72	
40 05 19 00-3301	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,058.05	583.99
			For Class 52 Rating, Deduct.....	-899.05	
			For Class 54 Rating, Add.....	1,236.60	
			For Class 55 Rating, Add.....	1,843.86	
			For Class 56 Rating, Add.....	2,442.95	
40 05 19 00-3302	EA		14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,415.59	587.15
			For Class 52 Rating, Deduct.....	-937.86	
			For Class 54 Rating, Add.....	1,289.57	
			For Class 55 Rating, Add.....	1,922.64	
			For Class 56 Rating, Add.....	2,547.19	
40 05 19 00-3303	EA		14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,773.13	590.32
			For Class 52 Rating, Deduct.....	-976.66	
			For Class 54 Rating, Add.....	1,342.54	
			For Class 55 Rating, Add.....	2,001.42	
			For Class 56 Rating, Add.....	2,651.42	
40 05 19 00-3304	EA		14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	10,130.67	593.46
			For Class 52 Rating, Deduct.....	-1,015.46	
			For Class 54 Rating, Add.....	1,395.51	
			For Class 55 Rating, Add.....	2,080.20	
			For Class 56 Rating, Add.....	2,755.66	
40 05 19 00-3305	EA		14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	10,488.21	596.63
			For Class 52 Rating, Deduct.....	-1,054.27	
			For Class 54 Rating, Add.....	1,448.48	
			For Class 55 Rating, Add.....	2,158.98	
			For Class 56 Rating, Add.....	2,859.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3306	EA		14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	10,845.75	599.79
			For Class 52 Rating, Deduct	-1,093.07	
			For Class 54 Rating, Add	1,501.45	
			For Class 55 Rating, Add	2,237.76	
			For Class 56 Rating, Add	2,964.13	
40 05 19 00-3307	EA		14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	11,203.29	602.95
			For Class 52 Rating, Deduct	-1,131.87	
			For Class 54 Rating, Add	1,554.42	
			For Class 55 Rating, Add	2,316.54	
			For Class 56 Rating, Add	3,068.36	
40 05 19 00-3308	EA		14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	11,560.82	606.09
			For Class 52 Rating, Deduct	-1,170.68	
			For Class 54 Rating, Add	1,607.39	
			For Class 55 Rating, Add	2,395.32	
			For Class 56 Rating, Add	3,172.60	
40 05 19 00-3309	EA		14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	11,918.35	609.25
			For Class 52 Rating, Deduct	-1,209.48	
			For Class 54 Rating, Add	1,660.36	
			For Class 55 Rating, Add	2,474.10	
			For Class 56 Rating, Add	3,276.83	
40 05 19 00-3310	EA		14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	12,275.90	612.41
			For Class 52 Rating, Deduct	-1,248.28	
			For Class 54 Rating, Add	1,713.34	
			For Class 55 Rating, Add	2,552.88	
			For Class 56 Rating, Add	3,381.07	
40 05 19 00-3311	EA		14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	12,633.43	615.56
			For Class 52 Rating, Deduct	-1,287.08	
			For Class 54 Rating, Add	1,766.31	
			For Class 55 Rating, Add	2,631.65	
			For Class 56 Rating, Add	3,485.30	
40 05 19 00-3312	EA		14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	12,990.98	618.72
			For Class 52 Rating, Deduct	-1,325.89	
			For Class 54 Rating, Add	1,819.28	
			For Class 55 Rating, Add	2,710.43	
			For Class 56 Rating, Add	3,589.54	
40 05 19 00-3313	EA		14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,348.51	621.88
			For Class 52 Rating, Deduct	-1,364.69	
			For Class 54 Rating, Add	1,872.25	
			For Class 55 Rating, Add	2,789.21	
			For Class 56 Rating, Add	3,693.77	
40 05 19 00-3314	EA		14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,706.05	625.04
			For Class 52 Rating, Deduct	-1,403.49	
			For Class 54 Rating, Add	1,925.22	
			For Class 55 Rating, Add	2,867.99	
			For Class 56 Rating, Add	3,798.01	
40 05 19 00-3315	EA		14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,063.59	628.19
			For Class 52 Rating, Deduct	-1,442.30	
			For Class 54 Rating, Add	1,978.19	
			For Class 55 Rating, Add	2,946.77	
			For Class 56 Rating, Add	3,902.24	
40 05 19 00-3316	EA		14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,421.12	631.35
			For Class 52 Rating, Deduct	-1,481.10	
			For Class 54 Rating, Add	2,031.16	
			For Class 55 Rating, Add	3,025.55	
			For Class 56 Rating, Add	4,006.48	
40 05 19 00-3317	EA		14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,778.67	634.51
			For Class 52 Rating, Deduct	-1,519.90	
			For Class 54 Rating, Add	2,084.13	
			For Class 55 Rating, Add	3,104.33	
			For Class 56 Rating, Add	4,110.71	
40 05 19 00-3318	EA		14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,136.20	637.66
			For Class 52 Rating, Deduct	-1,558.71	
			For Class 54 Rating, Add	2,137.10	
			For Class 55 Rating, Add	3,183.11	
			For Class 56 Rating, Add	4,214.95	
40 05 19 00-3319	EA		14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,493.75	640.82
			For Class 52 Rating, Deduct	-1,597.51	
			For Class 54 Rating, Add	2,190.07	
			For Class 55 Rating, Add	3,261.89	
			For Class 56 Rating, Add	4,319.18	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3320	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,851.28	643.97	
		For Class 52 Rating, Deduct	-1,636.31		
		For Class 54 Rating, Add	2,243.04		
		For Class 55 Rating, Add	3,340.67		
		For Class 56 Rating, Add	4,423.42		
40 05 19 00-3321	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	16,208.82	647.13	
		For Class 52 Rating, Deduct	-1,675.12		
		For Class 54 Rating, Add	2,296.01		
		For Class 55 Rating, Add	3,419.45		
		For Class 56 Rating, Add	4,527.65		
40 05 19 00-3322 16" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)					
40 05 19 00-3323	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,485.24	606.09	
		For Class 52 Rating, Deduct	-282.36		
		For Class 54 Rating, Add	396.06		
		For Class 55 Rating, Add	594.46		
		For Class 56 Rating, Add	790.30		
40 05 19 00-3324	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,899.47	609.25	
		For Class 52 Rating, Deduct	-327.40		
		For Class 54 Rating, Add	457.53		
		For Class 55 Rating, Add	685.88		
		For Class 56 Rating, Add	911.26		
40 05 19 00-3325	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,313.71	612.41	
		For Class 52 Rating, Deduct	-372.44		
		For Class 54 Rating, Add	519.01		
		For Class 55 Rating, Add	777.31		
		For Class 56 Rating, Add	1,032.22		
40 05 19 00-3326	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,727.94	615.56	
		For Class 52 Rating, Deduct	-417.48		
		For Class 54 Rating, Add	580.48		
		For Class 55 Rating, Add	868.73		
		For Class 56 Rating, Add	1,153.18		
40 05 19 00-3327	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,142.18	618.72	
		For Class 52 Rating, Deduct	-462.52		
		For Class 54 Rating, Add	641.96		
		For Class 55 Rating, Add	960.15		
		For Class 56 Rating, Add	1,274.14		
40 05 19 00-3328	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,556.40	621.88	
		For Class 52 Rating, Deduct	-507.56		
		For Class 54 Rating, Add	703.43		
		For Class 55 Rating, Add	1,051.57		
		For Class 56 Rating, Add	1,395.10		
40 05 19 00-3329	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,970.63	625.04	
		For Class 52 Rating, Deduct	-552.60		
		For Class 54 Rating, Add	764.91		
		For Class 55 Rating, Add	1,142.99		
		For Class 56 Rating, Add	1,516.06		
40 05 19 00-3330	EA	16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,384.87	628.19	
		For Class 52 Rating, Deduct	-597.64		
		For Class 54 Rating, Add	826.38		
		For Class 55 Rating, Add	1,234.42		
		For Class 56 Rating, Add	1,637.02		
40 05 19 00-3331	EA	16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,799.09	631.35	
		For Class 52 Rating, Deduct	-642.68		
		For Class 54 Rating, Add	887.86		
		For Class 55 Rating, Add	1,325.84		
		For Class 56 Rating, Add	1,757.98		
40 05 19 00-3332	EA	16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,213.33	634.51	
		For Class 52 Rating, Deduct	-687.72		
		For Class 54 Rating, Add	949.33		
		For Class 55 Rating, Add	1,417.26		
		For Class 56 Rating, Add	1,878.94		
40 05 19 00-3333	EA	16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,627.55	637.66	
		For Class 52 Rating, Deduct	-732.75		
		For Class 54 Rating, Add	1,010.80		
		For Class 55 Rating, Add	1,508.68		
		For Class 56 Rating, Add	1,999.89		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3334	EA	16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	8,041.79	640.82	
		For Class 52 Rating, Deduct	-777.79		
		For Class 54 Rating, Add	1,072.28		
		For Class 55 Rating, Add	1,600.10		
		For Class 56 Rating, Add	2,120.85		
40 05 19 00-3335	EA	16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	8,456.02	643.97	
		For Class 52 Rating, Deduct	-822.83		
		For Class 54 Rating, Add	1,133.75		
		For Class 55 Rating, Add	1,691.52		
		For Class 56 Rating, Add	2,241.81		
40 05 19 00-3336	EA	16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	8,870.25	647.13	
		For Class 52 Rating, Deduct	-867.87		
		For Class 54 Rating, Add	1,195.23		
		For Class 55 Rating, Add	1,782.95		
		For Class 56 Rating, Add	2,362.77		
40 05 19 00-3337	EA	16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	9,284.49	650.28	
		For Class 52 Rating, Deduct	-912.91		
		For Class 54 Rating, Add	1,256.70		
		For Class 55 Rating, Add	1,874.37		
		For Class 56 Rating, Add	2,483.73		
40 05 19 00-3338	EA	16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	9,698.71	653.44	
		For Class 52 Rating, Deduct	-957.95		
		For Class 54 Rating, Add	1,318.18		
		For Class 55 Rating, Add	1,965.79		
		For Class 56 Rating, Add	2,604.69		
40 05 19 00-3339	EA	16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,112.94	656.60	
		For Class 52 Rating, Deduct	-1,002.99		
		For Class 54 Rating, Add	1,379.65		
		For Class 55 Rating, Add	2,057.21		
		For Class 56 Rating, Add	2,725.65		
40 05 19 00-3340	EA	16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,527.17	659.75	
		For Class 52 Rating, Deduct	-1,048.03		
		For Class 54 Rating, Add	1,441.13		
		For Class 55 Rating, Add	2,148.63		
		For Class 56 Rating, Add	2,846.61		
40 05 19 00-3341	EA	16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,941.40	662.91	
		For Class 52 Rating, Deduct	-1,093.07		
		For Class 54 Rating, Add	1,502.60		
		For Class 55 Rating, Add	2,240.05		
		For Class 56 Rating, Add	2,967.57		
40 05 19 00-3342	EA	16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,355.64	666.07	
		For Class 52 Rating, Deduct	-1,138.11		
		For Class 54 Rating, Add	1,564.08		
		For Class 55 Rating, Add	2,331.48		
		For Class 56 Rating, Add	3,088.53		
40 05 19 00-3343	EA	16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,769.86	669.23	
		For Class 52 Rating, Deduct	-1,183.15		
		For Class 54 Rating, Add	1,625.55		
		For Class 55 Rating, Add	2,422.90		
		For Class 56 Rating, Add	3,209.49		
40 05 19 00-3344	EA	16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,184.10	672.38	
		For Class 52 Rating, Deduct	-1,228.19		
		For Class 54 Rating, Add	1,687.02		
		For Class 55 Rating, Add	2,514.32		
		For Class 56 Rating, Add	3,330.45		
40 05 19 00-3345	EA	16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,598.33	675.54	
		For Class 52 Rating, Deduct	-1,273.23		
		For Class 54 Rating, Add	1,748.50		
		For Class 55 Rating, Add	2,605.74		
		For Class 56 Rating, Add	3,451.41		
40 05 19 00-3346	EA	16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	13,012.57	678.71	
		For Class 52 Rating, Deduct	-1,318.27		
		For Class 54 Rating, Add	1,809.97		
		For Class 55 Rating, Add	2,697.16		
		For Class 56 Rating, Add	3,572.37		
40 05 19 00-3347	EA	16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	13,426.79	681.87	
		For Class 52 Rating, Deduct	-1,363.30		
		For Class 54 Rating, Add	1,871.45		
		For Class 55 Rating, Add	2,788.59		
		For Class 56 Rating, Add	3,693.33		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3348	EA	16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	13,841.01	685.00	
		For Class 52 Rating, Deduct	-1,408.34		
		For Class 54 Rating, Add	1,932.92		
		For Class 55 Rating, Add	2,880.01		
		For Class 56 Rating, Add	3,814.28		
40 05 19 00-3349	EA	16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	14,255.25	688.17	
		For Class 52 Rating, Deduct	-1,453.38		
		For Class 54 Rating, Add	1,994.40		
		For Class 55 Rating, Add	2,971.43		
		For Class 56 Rating, Add	3,935.24		
40 05 19 00-3350	EA	16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	14,669.48	691.33	
		For Class 52 Rating, Deduct	-1,498.42		
		For Class 54 Rating, Add	2,055.87		
		For Class 55 Rating, Add	3,062.85		
		For Class 56 Rating, Add	4,056.20		
40 05 19 00-3351	EA	16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,083.72	694.48	
		For Class 52 Rating, Deduct	-1,543.46		
		For Class 54 Rating, Add	2,117.35		
		For Class 55 Rating, Add	3,154.27		
		For Class 56 Rating, Add	4,177.16		
40 05 19 00-3352	EA	16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,497.95	697.64	
		For Class 52 Rating, Deduct	-1,588.50		
		For Class 54 Rating, Add	2,178.82		
		For Class 55 Rating, Add	3,245.69		
		For Class 56 Rating, Add	4,298.12		
40 05 19 00-3353	EA	16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,912.17	700.80	
		For Class 52 Rating, Deduct	-1,633.54		
		For Class 54 Rating, Add	2,240.30		
		For Class 55 Rating, Add	3,337.11		
		For Class 56 Rating, Add	4,419.08		
40 05 19 00-3354	EA	16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	16,326.41	703.96	
		For Class 52 Rating, Deduct	-1,678.58		
		For Class 54 Rating, Add	2,301.77		
		For Class 55 Rating, Add	3,428.54		
		For Class 56 Rating, Add	4,540.04		
40 05 19 00-3355	EA	16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	16,740.64	707.11	
		For Class 52 Rating, Deduct	-1,723.62		
		For Class 54 Rating, Add	2,363.25		
		For Class 55 Rating, Add	3,519.96		
		For Class 56 Rating, Add	4,661.00		
40 05 19 00-3356	EA	16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	17,154.87	710.27	
		For Class 52 Rating, Deduct	-1,768.66		
		For Class 54 Rating, Add	2,424.72		
		For Class 55 Rating, Add	3,611.38		
		For Class 56 Rating, Add	4,781.96		
40 05 19 00-3357	EA	16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	17,569.10	713.43	
		For Class 52 Rating, Deduct	-1,813.70		
		For Class 54 Rating, Add	2,486.20		
		For Class 55 Rating, Add	3,702.80		
		For Class 56 Rating, Add	4,902.92		
40 05 19 00-3358	EA	16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	17,983.32	716.58	
		For Class 52 Rating, Deduct	-1,858.74		
		For Class 54 Rating, Add	2,547.67		
		For Class 55 Rating, Add	3,794.22		
		For Class 56 Rating, Add	5,023.88		
40 05 19 00-3359	EA	16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	18,397.56	719.74	
		For Class 52 Rating, Deduct	-1,903.78		
		For Class 54 Rating, Add	2,609.14		
		For Class 55 Rating, Add	3,885.64		
		For Class 56 Rating, Add	5,144.84		
40 05 19 00-3360	EA	16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	18,811.79	722.89	
		For Class 52 Rating, Deduct	-1,948.82		
		For Class 54 Rating, Add	2,670.62		
		For Class 55 Rating, Add	3,977.07		
		For Class 56 Rating, Add	5,265.80		

40 05 19 00-3361 18" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3362	EA		18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,042.90	683.12
			For Class 52 Rating, Deduct	-330.87	
			For Class 54 Rating, Add	463.60	
			For Class 55 Rating, Add	695.60	
			For Class 56 Rating, Add	924.58	
40 05 19 00-3363	EA		18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,520.12	686.28
			For Class 52 Rating, Deduct	-382.83	
			For Class 54 Rating, Add	534.52	
			For Class 55 Rating, Add	801.06	
			For Class 56 Rating, Add	1,064.12	
40 05 19 00-3364	EA		18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,997.34	689.42
			For Class 52 Rating, Deduct	-434.80	
			For Class 54 Rating, Add	605.45	
			For Class 55 Rating, Add	906.53	
			For Class 56 Rating, Add	1,203.67	
40 05 19 00-3365	EA		18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,474.57	692.58
			For Class 52 Rating, Deduct	-486.77	
			For Class 54 Rating, Add	676.37	
			For Class 55 Rating, Add	1,012.00	
			For Class 56 Rating, Add	1,343.21	
40 05 19 00-3366	EA		18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,951.79	695.75
			For Class 52 Rating, Deduct	-538.74	
			For Class 54 Rating, Add	747.29	
			For Class 55 Rating, Add	1,117.47	
			For Class 56 Rating, Add	1,482.75	
40 05 19 00-3367	EA		18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,429.02	698.89
			For Class 52 Rating, Deduct	-590.71	
			For Class 54 Rating, Add	818.22	
			For Class 55 Rating, Add	1,222.94	
			For Class 56 Rating, Add	1,622.29	
40 05 19 00-3368	EA		18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	6,906.24	702.05
			For Class 52 Rating, Deduct	-642.68	
			For Class 54 Rating, Add	889.14	
			For Class 55 Rating, Add	1,328.41	
			For Class 56 Rating, Add	1,761.83	
40 05 19 00-3369	EA		18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	7,383.46	705.22
			For Class 52 Rating, Deduct	-694.64	
			For Class 54 Rating, Add	960.06	
			For Class 55 Rating, Add	1,433.88	
			For Class 56 Rating, Add	1,901.38	
40 05 19 00-3370	EA		18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	7,860.68	708.38
			For Class 52 Rating, Deduct	-746.61	
			For Class 54 Rating, Add	1,030.99	
			For Class 55 Rating, Add	1,539.35	
			For Class 56 Rating, Add	2,040.92	
40 05 19 00-3371	EA		18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,337.90	711.53
			For Class 52 Rating, Deduct	-798.58	
			For Class 54 Rating, Add	1,101.91	
			For Class 55 Rating, Add	1,644.82	
			For Class 56 Rating, Add	2,180.46	
40 05 19 00-3372	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	8,815.13	714.69
			For Class 52 Rating, Deduct	-850.55	
			For Class 54 Rating, Add	1,172.83	
			For Class 55 Rating, Add	1,750.28	
			For Class 56 Rating, Add	2,320.00	
40 05 19 00-3373	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,292.35	717.85
			For Class 52 Rating, Deduct	-902.52	
			For Class 54 Rating, Add	1,243.76	
			For Class 55 Rating, Add	1,855.75	
			For Class 56 Rating, Add	2,459.54	
40 05 19 00-3374	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,769.58	721.00
			For Class 52 Rating, Deduct	-954.49	
			For Class 54 Rating, Add	1,314.68	
			For Class 55 Rating, Add	1,961.22	
			For Class 56 Rating, Add	2,599.09	
40 05 19 00-3375	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	10,246.80	724.16
			For Class 52 Rating, Deduct	-1,006.45	
			For Class 54 Rating, Add	1,385.61	
			For Class 55 Rating, Add	2,066.69	
			For Class 56 Rating, Add	2,738.63	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-3376	EA	18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	10,724.02		727.32	
		For Class 52 Rating, Deduct	-1,058.42			
		For Class 54 Rating, Add	1,456.53			
		For Class 55 Rating, Add	2,172.16			
		For Class 56 Rating, Add	2,878.17			
40 05 19 00-3377	EA	18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	11,201.25		730.48	
		For Class 52 Rating, Deduct	-1,110.39			
		For Class 54 Rating, Add	1,527.45			
		For Class 55 Rating, Add	2,277.63			
		For Class 56 Rating, Add	3,017.71			
40 05 19 00-3378	EA	18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	11,678.47		733.62	
		For Class 52 Rating, Deduct	-1,162.36			
		For Class 54 Rating, Add	1,598.38			
		For Class 55 Rating, Add	2,383.10			
		For Class 56 Rating, Add	3,157.25			
40 05 19 00-3379	EA	18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	12,155.69		736.78	
		For Class 52 Rating, Deduct	-1,214.33			
		For Class 54 Rating, Add	1,669.30			
		For Class 55 Rating, Add	2,488.57			
		For Class 56 Rating, Add	3,296.80			
40 05 19 00-3380	EA	18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	12,632.91		739.94	
		For Class 52 Rating, Deduct	-1,266.30			
		For Class 54 Rating, Add	1,740.22			
		For Class 55 Rating, Add	2,594.04			
		For Class 56 Rating, Add	3,436.34			
40 05 19 00-3381	EA	18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	13,110.13		743.09	
		For Class 52 Rating, Deduct	-1,318.27			
		For Class 54 Rating, Add	1,811.15			
		For Class 55 Rating, Add	2,699.50			
		For Class 56 Rating, Add	3,575.88			
40 05 19 00-3382	EA	18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	13,587.36		746.25	
		For Class 52 Rating, Deduct	-1,370.23			
		For Class 54 Rating, Add	1,882.07			
		For Class 55 Rating, Add	2,804.97			
		For Class 56 Rating, Add	3,715.42			
40 05 19 00-3383	EA	18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	14,064.58		749.41	
		For Class 52 Rating, Deduct	-1,422.20			
		For Class 54 Rating, Add	1,952.99			
		For Class 55 Rating, Add	2,910.44			
		For Class 56 Rating, Add	3,854.96			
40 05 19 00-3384	EA	18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	14,541.81		752.57	
		For Class 52 Rating, Deduct	-1,474.17			
		For Class 54 Rating, Add	2,023.92			
		For Class 55 Rating, Add	3,015.91			
		For Class 56 Rating, Add	3,994.51			
40 05 19 00-3385	EA	18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	15,019.03		755.72	
		For Class 52 Rating, Deduct	-1,526.14			
		For Class 54 Rating, Add	2,094.84			
		For Class 55 Rating, Add	3,121.38			
		For Class 56 Rating, Add	4,134.05			
40 05 19 00-3386	EA	18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	15,496.26		758.88	
		For Class 52 Rating, Deduct	-1,578.11			
		For Class 54 Rating, Add	2,165.76			
		For Class 55 Rating, Add	3,226.85			
		For Class 56 Rating, Add	4,273.59			
40 05 19 00-3387	EA	18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	15,973.47		762.04	
		For Class 52 Rating, Deduct	-1,630.08			
		For Class 54 Rating, Add	2,236.69			
		For Class 55 Rating, Add	3,332.32			
		For Class 56 Rating, Add	4,413.13			
40 05 19 00-3388	EA	18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	16,450.69		765.20	
		For Class 52 Rating, Deduct	-1,682.04			
		For Class 54 Rating, Add	2,307.61			
		For Class 55 Rating, Add	3,437.79			
		For Class 56 Rating, Add	4,552.67			
40 05 19 00-3389	EA	18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	16,927.92		768.34	
		For Class 52 Rating, Deduct	-1,734.01			
		For Class 54 Rating, Add	2,378.53			
		For Class 55 Rating, Add	3,543.26			
		For Class 56 Rating, Add	4,692.22			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3390	EA	18"	Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,405.14	771.50
			For Class 52 Rating, Deduct.....	-1,785.98	
			For Class 54 Rating, Add.....	2,449.46	
			For Class 55 Rating, Add.....	3,648.73	
			For Class 56 Rating, Add.....	4,831.76	
40 05 19 00-3391	EA	18"	Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,882.37	774.66
			For Class 52 Rating, Deduct.....	-1,837.95	
			For Class 54 Rating, Add.....	2,520.38	
			For Class 55 Rating, Add.....	3,754.19	
			For Class 56 Rating, Add.....	4,971.30	
40 05 19 00-3392	EA	18"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,359.59	777.81
			For Class 52 Rating, Deduct.....	-1,889.92	
			For Class 54 Rating, Add.....	2,591.30	
			For Class 55 Rating, Add.....	3,859.66	
			For Class 56 Rating, Add.....	5,110.84	
40 05 19 00-3393	EA	18"	Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,836.81	780.97
			For Class 52 Rating, Deduct.....	-1,941.89	
			For Class 54 Rating, Add.....	2,662.23	
			For Class 55 Rating, Add.....	3,965.13	
			For Class 56 Rating, Add.....	5,250.38	
40 05 19 00-3394	EA	18"	Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,314.04	784.13
			For Class 52 Rating, Deduct.....	-1,993.85	
			For Class 54 Rating, Add.....	2,733.15	
			For Class 55 Rating, Add.....	4,070.60	
			For Class 56 Rating, Add.....	5,389.93	
40 05 19 00-3395	EA	18"	Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,791.25	787.30
			For Class 52 Rating, Deduct.....	-2,045.82	
			For Class 54 Rating, Add.....	2,804.07	
			For Class 55 Rating, Add.....	4,176.07	
			For Class 56 Rating, Add.....	5,529.47	
40 05 19 00-3396	EA	18"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,268.48	790.44
			For Class 52 Rating, Deduct.....	-2,097.79	
			For Class 54 Rating, Add.....	2,875.00	
			For Class 55 Rating, Add.....	4,281.54	
			For Class 56 Rating, Add.....	5,669.01	
40 05 19 00-3397	EA	18"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,745.70	793.61
			For Class 52 Rating, Deduct.....	-2,149.76	
			For Class 54 Rating, Add.....	2,945.92	
			For Class 55 Rating, Add.....	4,387.01	
			For Class 56 Rating, Add.....	5,808.55	
40 05 19 00-3398	EA	18"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,222.93	796.77
			For Class 52 Rating, Deduct.....	-2,201.73	
			For Class 54 Rating, Add.....	3,016.84	
			For Class 55 Rating, Add.....	4,492.48	
			For Class 56 Rating, Add.....	5,948.09	
40 05 19 00-3399	EA	18"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,700.15	799.91
			For Class 52 Rating, Deduct.....	-2,253.70	
			For Class 54 Rating, Add.....	3,087.77	
			For Class 55 Rating, Add.....	4,597.95	
			For Class 56 Rating, Add.....	6,087.64	
40 05 19 00-3400			20" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3401	EA	20"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,708.94	779.72
			For Class 52 Rating, Deduct.....	-388.03	
			For Class 54 Rating, Add.....	543.31	
			For Class 55 Rating, Add.....	815.00	
			For Class 56 Rating, Add.....	1,083.16	
40 05 19 00-3402	EA	20"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,252.30	782.88
			For Class 52 Rating, Deduct.....	-447.27	
			For Class 54 Rating, Add.....	624.15	
			For Class 55 Rating, Add.....	935.22	
			For Class 56 Rating, Add.....	1,242.21	
40 05 19 00-3403	EA	20"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,795.67	786.03
			For Class 52 Rating, Deduct.....	-506.52	
			For Class 54 Rating, Add.....	705.00	
			For Class 55 Rating, Add.....	1,055.44	
			For Class 56 Rating, Add.....	1,401.27	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-3404	EA	20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		6,339.03		789.19
		For Class 52 Rating, Deduct		-565.76		
		For Class 54 Rating, Add		785.84		
		For Class 55 Rating, Add		1,175.65		
		For Class 56 Rating, Add		1,560.32		
40 05 19 00-3405	EA	20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		6,882.39		792.35
		For Class 52 Rating, Deduct		-625.01		
		For Class 54 Rating, Add		866.69		
		For Class 55 Rating, Add		1,295.87		
		For Class 56 Rating, Add		1,719.37		
40 05 19 00-3406	EA	20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		7,425.76		795.50
		For Class 52 Rating, Deduct		-684.25		
		For Class 54 Rating, Add		947.53		
		For Class 55 Rating, Add		1,416.09		
		For Class 56 Rating, Add		1,878.43		
40 05 19 00-3407	EA	20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		7,969.12		798.65
		For Class 52 Rating, Deduct		-743.49		
		For Class 54 Rating, Add		1,028.38		
		For Class 55 Rating, Add		1,536.31		
		For Class 56 Rating, Add		2,037.48		
40 05 19 00-3408	EA	20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		8,512.49		801.81
		For Class 52 Rating, Deduct		-802.74		
		For Class 54 Rating, Add		1,109.22		
		For Class 55 Rating, Add		1,656.53		
		For Class 56 Rating, Add		2,196.53		
40 05 19 00-3409	EA	20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		9,055.85		804.97
		For Class 52 Rating, Deduct		-861.98		
		For Class 54 Rating, Add		1,190.07		
		For Class 55 Rating, Add		1,776.74		
		For Class 56 Rating, Add		2,355.59		
40 05 19 00-3410	EA	20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		9,599.23		808.12
		For Class 52 Rating, Deduct		-921.23		
		For Class 54 Rating, Add		1,270.91		
		For Class 55 Rating, Add		1,896.96		
		For Class 56 Rating, Add		2,514.64		
40 05 19 00-3411	EA	20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		10,142.58		811.28
		For Class 52 Rating, Deduct		-980.47		
		For Class 54 Rating, Add		1,351.76		
		For Class 55 Rating, Add		2,017.18		
		For Class 56 Rating, Add		2,673.70		
40 05 19 00-3412	EA	20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		10,685.94		814.44
		For Class 52 Rating, Deduct		-1,039.71		
		For Class 54 Rating, Add		1,432.60		
		For Class 55 Rating, Add		2,137.40		
		For Class 56 Rating, Add		2,832.75		
40 05 19 00-3413	EA	20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		11,229.31		817.59
		For Class 52 Rating, Deduct		-1,098.96		
		For Class 54 Rating, Add		1,513.44		
		For Class 55 Rating, Add		2,257.62		
		For Class 56 Rating, Add		2,991.80		
40 05 19 00-3414	EA	20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		11,772.67		820.75
		For Class 52 Rating, Deduct		-1,158.20		
		For Class 54 Rating, Add		1,594.29		
		For Class 55 Rating, Add		2,377.84		
		For Class 56 Rating, Add		3,150.86		
40 05 19 00-3415	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		12,316.04		823.91
		For Class 52 Rating, Deduct		-1,217.45		
		For Class 54 Rating, Add		1,675.13		
		For Class 55 Rating, Add		2,498.06		
		For Class 56 Rating, Add		3,309.91		
40 05 19 00-3416	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		12,859.41		827.07
		For Class 52 Rating, Deduct		-1,276.69		
		For Class 54 Rating, Add		1,755.98		
		For Class 55 Rating, Add		2,618.28		
		For Class 56 Rating, Add		3,468.97		
40 05 19 00-3417	EA	20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		13,402.77		830.22
		For Class 52 Rating, Deduct		-1,335.93		
		For Class 54 Rating, Add		1,836.82		
		For Class 55 Rating, Add		2,738.49		
		For Class 56 Rating, Add		3,628.02		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3418	EA	20"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,946.14	833.38
			For Class 52 Rating, Deduct	-1,395.18	
			For Class 54 Rating, Add	1,917.67	
			For Class 55 Rating, Add	2,858.71	
			For Class 56 Rating, Add	3,787.07	
40 05 19 00-3419	EA	20"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,489.49	836.54
			For Class 52 Rating, Deduct	-1,454.42	
			For Class 54 Rating, Add	1,998.51	
			For Class 55 Rating, Add	2,978.93	
			For Class 56 Rating, Add	3,946.12	
40 05 19 00-3420	EA	20"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,032.86	839.70
			For Class 52 Rating, Deduct	-1,513.67	
			For Class 54 Rating, Add	2,079.36	
			For Class 55 Rating, Add	3,099.15	
			For Class 56 Rating, Add	4,105.18	
40 05 19 00-3421	EA	20"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,576.22	842.84
			For Class 52 Rating, Deduct	-1,572.91	
			For Class 54 Rating, Add	2,160.20	
			For Class 55 Rating, Add	3,219.37	
			For Class 56 Rating, Add	4,264.23	
40 05 19 00-3422	EA	20"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	16,119.60	846.00
			For Class 52 Rating, Deduct	-1,632.15	
			For Class 54 Rating, Add	2,241.05	
			For Class 55 Rating, Add	3,339.59	
			For Class 56 Rating, Add	4,423.29	
40 05 19 00-3423	EA	20"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	16,662.96	849.16
			For Class 52 Rating, Deduct	-1,691.40	
			For Class 54 Rating, Add	2,321.89	
			For Class 55 Rating, Add	3,459.80	
			For Class 56 Rating, Add	4,582.34	
40 05 19 00-3424	EA	20"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	17,206.32	852.31
			For Class 52 Rating, Deduct	-1,750.64	
			For Class 54 Rating, Add	2,402.74	
			For Class 55 Rating, Add	3,580.02	
			For Class 56 Rating, Add	4,741.39	
40 05 19 00-3425	EA	20"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	17,749.69	855.47
			For Class 52 Rating, Deduct	-1,809.89	
			For Class 54 Rating, Add	2,483.58	
			For Class 55 Rating, Add	3,700.24	
			For Class 56 Rating, Add	4,900.45	
40 05 19 00-3426	EA	20"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	18,293.05	858.63
			For Class 52 Rating, Deduct	-1,869.13	
			For Class 54 Rating, Add	2,564.43	
			For Class 55 Rating, Add	3,820.46	
			For Class 56 Rating, Add	5,059.50	
40 05 19 00-3427	EA	20"	Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	18,836.41	861.80
			For Class 52 Rating, Deduct	-1,928.37	
			For Class 54 Rating, Add	2,645.27	
			For Class 55 Rating, Add	3,940.68	
			For Class 56 Rating, Add	5,218.55	
40 05 19 00-3428	EA	20"	Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	19,379.78	864.94
			For Class 52 Rating, Deduct	-1,987.62	
			For Class 54 Rating, Add	2,726.12	
			For Class 55 Rating, Add	4,060.90	
			For Class 56 Rating, Add	5,377.61	
40 05 19 00-3429	EA	20"	Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	19,923.14	868.11
			For Class 52 Rating, Deduct	-2,046.86	
			For Class 54 Rating, Add	2,806.96	
			For Class 55 Rating, Add	4,181.12	
			For Class 56 Rating, Add	5,536.66	
40 05 19 00-3430	EA	20"	Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	20,466.51	871.27
			For Class 52 Rating, Deduct	-2,106.11	
			For Class 54 Rating, Add	2,887.80	
			For Class 55 Rating, Add	4,301.33	
			For Class 56 Rating, Add	5,695.72	
40 05 19 00-3431	EA	20"	Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	21,009.87	874.41
			For Class 52 Rating, Deduct	-2,165.35	
			For Class 54 Rating, Add	2,968.65	
			For Class 55 Rating, Add	4,421.55	
			For Class 56 Rating, Add	5,854.77	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3432	EA		20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,553.24	877.57
			For Class 52 Rating, Deduct.....	-2,224.59	
			For Class 54 Rating, Add.....	3,049.49	
			For Class 55 Rating, Add.....	4,541.77	
			For Class 56 Rating, Add.....	6,013.82	
40 05 19 00-3433	EA		20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,096.60	880.73
			For Class 52 Rating, Deduct.....	-2,283.84	
			For Class 54 Rating, Add.....	3,130.34	
			For Class 55 Rating, Add.....	4,661.99	
			For Class 56 Rating, Add.....	6,172.88	
40 05 19 00-3434	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,639.97	883.89
			For Class 52 Rating, Deduct.....	-2,343.08	
			For Class 54 Rating, Add.....	3,211.18	
			For Class 55 Rating, Add.....	4,782.21	
			For Class 56 Rating, Add.....	6,331.93	
40 05 19 00-3435	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,183.34	887.04
			For Class 52 Rating, Deduct.....	-2,402.33	
			For Class 54 Rating, Add.....	3,292.03	
			For Class 55 Rating, Add.....	4,902.43	
			For Class 56 Rating, Add.....	6,490.99	
40 05 19 00-3436	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,726.69	890.20
			For Class 52 Rating, Deduct.....	-2,461.57	
			For Class 54 Rating, Add.....	3,372.87	
			For Class 55 Rating, Add.....	5,022.64	
			For Class 56 Rating, Add.....	6,650.04	
40 05 19 00-3437	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,270.06	893.36
			For Class 52 Rating, Deduct.....	-2,520.81	
			For Class 54 Rating, Add.....	3,453.72	
			For Class 55 Rating, Add.....	5,142.86	
			For Class 56 Rating, Add.....	6,809.09	
40 05 19 00-3438	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,813.42	896.51
			For Class 52 Rating, Deduct.....	-2,580.06	
			For Class 54 Rating, Add.....	3,534.56	
			For Class 55 Rating, Add.....	5,263.08	
			For Class 56 Rating, Add.....	6,968.15	

40 05 19 00-3439 24" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-3082)

40 05 19 00-3440	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,799.76	921.76
			For Class 52 Rating, Deduct.....	-484.35	
			For Class 54 Rating, Add.....	677.23	
			For Class 55 Rating, Add.....	1,015.42	
			For Class 56 Rating, Add.....	1,349.20	
40 05 19 00-3441	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,472.26	924.92
			For Class 52 Rating, Deduct.....	-557.79	
			For Class 54 Rating, Add.....	777.45	
			For Class 55 Rating, Add.....	1,164.44	
			For Class 56 Rating, Add.....	1,546.35	
40 05 19 00-3442	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,144.75	928.08
			For Class 52 Rating, Deduct.....	-631.24	
			For Class 54 Rating, Add.....	877.66	
			For Class 55 Rating, Add.....	1,313.45	
			For Class 56 Rating, Add.....	1,743.50	
40 05 19 00-3443	EA		24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,817.26	931.23
			For Class 52 Rating, Deduct.....	-704.69	
			For Class 54 Rating, Add.....	977.88	
			For Class 55 Rating, Add.....	1,462.47	
			For Class 56 Rating, Add.....	1,940.65	
40 05 19 00-3444	EA		24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,489.75	934.39
			For Class 52 Rating, Deduct.....	-778.14	
			For Class 54 Rating, Add.....	1,078.09	
			For Class 55 Rating, Add.....	1,611.48	
			For Class 56 Rating, Add.....	2,137.80	
40 05 19 00-3445	EA		24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,162.26	937.55
			For Class 52 Rating, Deduct.....	-851.59	
			For Class 54 Rating, Add.....	1,178.30	
			For Class 55 Rating, Add.....	1,760.50	
			For Class 56 Rating, Add.....	2,334.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3446	EA	24"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	9,834.74	940.71
			For Class 52 Rating, Deduct	-925.04	
			For Class 54 Rating, Add	1,278.52	
			For Class 55 Rating, Add	1,909.51	
			For Class 56 Rating, Add	2,532.09	
40 05 19 00-3447	EA	24"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	10,507.24	943.86
			For Class 52 Rating, Deduct	-998.49	
			For Class 54 Rating, Add	1,378.73	
			For Class 55 Rating, Add	2,058.53	
			For Class 56 Rating, Add	2,729.24	
40 05 19 00-3448	EA	24"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	11,179.74	947.02
			For Class 52 Rating, Deduct	-1,071.93	
			For Class 54 Rating, Add	1,478.95	
			For Class 55 Rating, Add	2,207.54	
			For Class 56 Rating, Add	2,926.39	
40 05 19 00-3449	EA	24"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	11,852.24	950.19
			For Class 52 Rating, Deduct	-1,145.38	
			For Class 54 Rating, Add	1,579.16	
			For Class 55 Rating, Add	2,356.56	
			For Class 56 Rating, Add	3,123.54	
40 05 19 00-3450	EA	24"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	12,524.74	953.32
			For Class 52 Rating, Deduct	-1,218.83	
			For Class 54 Rating, Add	1,679.38	
			For Class 55 Rating, Add	2,505.57	
			For Class 56 Rating, Add	3,320.69	
40 05 19 00-3451	EA	24"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,197.24	956.48
			For Class 52 Rating, Deduct	-1,292.28	
			For Class 54 Rating, Add	1,779.59	
			For Class 55 Rating, Add	2,654.59	
			For Class 56 Rating, Add	3,517.84	
40 05 19 00-3452	EA	24"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,869.74	959.65
			For Class 52 Rating, Deduct	-1,365.73	
			For Class 54 Rating, Add	1,879.81	
			For Class 55 Rating, Add	2,803.60	
			For Class 56 Rating, Add	3,714.98	
40 05 19 00-3453	EA	24"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,542.24	962.81
			For Class 52 Rating, Deduct	-1,439.18	
			For Class 54 Rating, Add	1,980.02	
			For Class 55 Rating, Add	2,952.62	
			For Class 56 Rating, Add	3,912.13	
40 05 19 00-3454	EA	24"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,214.72	965.96
			For Class 52 Rating, Deduct	-1,512.63	
			For Class 54 Rating, Add	2,080.24	
			For Class 55 Rating, Add	3,101.63	
			For Class 56 Rating, Add	4,109.28	
40 05 19 00-3455	EA	24"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,887.23	969.12
			For Class 52 Rating, Deduct	-1,586.08	
			For Class 54 Rating, Add	2,180.45	
			For Class 55 Rating, Add	3,250.65	
			For Class 56 Rating, Add	4,306.43	
40 05 19 00-3456	EA	24"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	16,559.72	972.28
			For Class 52 Rating, Deduct	-1,659.52	
			For Class 54 Rating, Add	2,280.66	
			For Class 55 Rating, Add	3,399.66	
			For Class 56 Rating, Add	4,503.57	
40 05 19 00-3457	EA	24"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	17,232.23	975.43
			For Class 52 Rating, Deduct	-1,732.97	
			For Class 54 Rating, Add	2,380.88	
			For Class 55 Rating, Add	3,548.68	
			For Class 56 Rating, Add	4,700.72	
40 05 19 00-3458	EA	24"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	17,904.72	978.59
			For Class 52 Rating, Deduct	-1,806.42	
			For Class 54 Rating, Add	2,481.09	
			For Class 55 Rating, Add	3,697.69	
			For Class 56 Rating, Add	4,897.87	
40 05 19 00-3459	EA	24"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	18,577.22	981.75
			For Class 52 Rating, Deduct	-1,879.87	
			For Class 54 Rating, Add	2,581.31	
			For Class 55 Rating, Add	3,846.71	
			For Class 56 Rating, Add	5,095.02	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3460	EA		24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	19,249.72	984.91
			For Class 52 Rating, Deduct.....	-1,953.32	
			For Class 54 Rating, Add.....	2,681.52	
			For Class 55 Rating, Add.....	3,995.72	
			For Class 56 Rating, Add.....	5,292.17	
40 05 19 00-3461	EA		24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	19,922.22	988.06
			For Class 52 Rating, Deduct.....	-2,026.77	
			For Class 54 Rating, Add.....	2,781.74	
			For Class 55 Rating, Add.....	4,144.74	
			For Class 56 Rating, Add.....	5,489.32	
40 05 19 00-3462	EA		24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	20,594.72	991.22
			For Class 52 Rating, Deduct.....	-2,100.22	
			For Class 54 Rating, Add.....	2,881.95	
			For Class 55 Rating, Add.....	4,293.76	
			For Class 56 Rating, Add.....	5,686.47	
40 05 19 00-3463	EA		24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	21,267.21	994.38
			For Class 52 Rating, Deduct.....	-2,173.66	
			For Class 54 Rating, Add.....	2,982.17	
			For Class 55 Rating, Add.....	4,442.77	
			For Class 56 Rating, Add.....	5,883.61	
40 05 19 00-3464	EA		24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	21,939.72	997.53
			For Class 52 Rating, Deduct.....	-2,247.11	
			For Class 54 Rating, Add.....	3,082.38	
			For Class 55 Rating, Add.....	4,591.79	
			For Class 56 Rating, Add.....	6,080.76	
40 05 19 00-3465	EA		24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	22,612.21	1,000.68
			For Class 52 Rating, Deduct.....	-2,320.56	
			For Class 54 Rating, Add.....	3,182.60	
			For Class 55 Rating, Add.....	4,740.80	
			For Class 56 Rating, Add.....	6,277.91	
40 05 19 00-3466	EA		24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	23,284.71	1,003.84
			For Class 52 Rating, Deduct.....	-2,394.01	
			For Class 54 Rating, Add.....	3,282.81	
			For Class 55 Rating, Add.....	4,889.82	
			For Class 56 Rating, Add.....	6,475.06	
40 05 19 00-3467	EA		24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	23,957.21	1,007.00
			For Class 52 Rating, Deduct.....	-2,467.46	
			For Class 54 Rating, Add.....	3,383.03	
			For Class 55 Rating, Add.....	5,038.83	
			For Class 56 Rating, Add.....	6,672.21	
40 05 19 00-3468	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	24,629.71	1,010.15
			For Class 52 Rating, Deduct.....	-2,540.91	
			For Class 54 Rating, Add.....	3,483.24	
			For Class 55 Rating, Add.....	5,187.85	
			For Class 56 Rating, Add.....	6,869.35	
40 05 19 00-3469	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	25,383.52	1,066.98
			For Class 52 Rating, Deduct.....	-2,614.36	
			For Class 54 Rating, Add.....	3,584.43	
			For Class 55 Rating, Add.....	5,338.81	
			For Class 56 Rating, Add.....	7,069.43	
40 05 19 00-3470	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	26,056.01	1,070.14
			For Class 52 Rating, Deduct.....	-2,687.81	
			For Class 54 Rating, Add.....	3,684.65	
			For Class 55 Rating, Add.....	5,487.83	
			For Class 56 Rating, Add.....	7,266.58	
40 05 19 00-3471	EA		24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	26,728.51	1,073.29
			For Class 52 Rating, Deduct.....	-2,761.25	
			For Class 54 Rating, Add.....	3,784.86	
			For Class 55 Rating, Add.....	5,636.84	
			For Class 56 Rating, Add.....	7,463.72	
40 05 19 00-3472	EA		24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	27,401.01	1,076.45
			For Class 52 Rating, Deduct.....	-2,834.70	
			For Class 54 Rating, Add.....	3,885.08	
			For Class 55 Rating, Add.....	5,785.86	
			For Class 56 Rating, Add.....	7,660.87	
40 05 19 00-3473	EA		24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	28,073.50	1,079.60
			For Class 52 Rating, Deduct.....	-2,908.15	
			For Class 54 Rating, Add.....	3,985.29	
			For Class 55 Rating, Add.....	5,934.87	
			For Class 56 Rating, Add.....	7,858.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3474	EA		24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	31,895.61	1,082.76
			For Class 52 Rating, Deduct.....	-3,328.06	
			For Class 54 Rating, Add.....	4,557.95	
			For Class 55 Rating, Add.....	6,786.25	
			For Class 56 Rating, Add.....	8,984.30	
40 05 19 00-3475	EA		24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	29,418.50	1,085.92
			For Class 52 Rating, Deduct.....	-3,055.05	
			For Class 54 Rating, Add.....	4,185.72	
			For Class 55 Rating, Add.....	6,232.90	
			For Class 56 Rating, Add.....	8,252.32	
40 05 19 00-3476	EA		24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	30,091.01	1,089.07
			For Class 52 Rating, Deduct.....	-3,128.50	
			For Class 54 Rating, Add.....	4,285.93	
			For Class 55 Rating, Add.....	6,381.92	
			For Class 56 Rating, Add.....	8,449.47	
40 05 19 00-3477	EA		24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	30,763.50	1,092.23
			For Class 52 Rating, Deduct.....	-3,201.95	
			For Class 54 Rating, Add.....	4,386.15	
			For Class 55 Rating, Add.....	6,530.94	
			For Class 56 Rating, Add.....	8,646.61	
40 05 19 00-3478			30" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3479	EA		30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	9,825.67	1,300.58
			For Class 52 Rating, Deduct.....	-864.06	
			For Class 54 Rating, Add.....	1,201.91	
			For Class 55 Rating, Add.....	1,798.98	
			For Class 56 Rating, Add.....	2,388.20	
40 05 19 00-3480	EA		30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	10,787.93	1,303.73
			For Class 52 Rating, Deduct.....	-969.38	
			For Class 54 Rating, Add.....	1,345.59	
			For Class 55 Rating, Add.....	2,012.61	
			For Class 56 Rating, Add.....	2,670.82	
40 05 19 00-3481	EA		30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	11,750.19	1,306.88
			For Class 52 Rating, Deduct.....	-1,074.71	
			For Class 54 Rating, Add.....	1,489.27	
			For Class 55 Rating, Add.....	2,226.25	
			For Class 56 Rating, Add.....	2,953.45	
40 05 19 00-3482	EA		30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	12,712.46	1,310.04
			For Class 52 Rating, Deduct.....	-1,180.03	
			For Class 54 Rating, Add.....	1,632.95	
			For Class 55 Rating, Add.....	2,439.88	
			For Class 56 Rating, Add.....	3,236.08	
40 05 19 00-3483	EA		30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	13,674.72	1,313.21
			For Class 52 Rating, Deduct.....	-1,285.35	
			For Class 54 Rating, Add.....	1,776.63	
			For Class 55 Rating, Add.....	2,653.51	
			For Class 56 Rating, Add.....	3,518.71	
40 05 19 00-3484	EA		30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	14,636.98	1,316.35
			For Class 52 Rating, Deduct.....	-1,390.67	
			For Class 54 Rating, Add.....	1,920.31	
			For Class 55 Rating, Add.....	2,867.14	
			For Class 56 Rating, Add.....	3,801.34	
40 05 19 00-3485	EA		30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	15,599.24	1,319.52
			For Class 52 Rating, Deduct.....	-1,496.00	
			For Class 54 Rating, Add.....	2,063.99	
			For Class 55 Rating, Add.....	3,080.78	
			For Class 56 Rating, Add.....	4,083.96	
40 05 19 00-3486	EA		30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	16,561.50	1,322.68
			For Class 52 Rating, Deduct.....	-1,601.32	
			For Class 54 Rating, Add.....	2,207.67	
			For Class 55 Rating, Add.....	3,294.41	
			For Class 56 Rating, Add.....	4,366.59	
40 05 19 00-3487	EA		30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	17,523.76	1,325.82
			For Class 52 Rating, Deduct.....	-1,706.64	
			For Class 54 Rating, Add.....	2,351.35	
			For Class 55 Rating, Add.....	3,508.04	
			For Class 56 Rating, Add.....	4,649.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3488	EA		30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	18,486.02	1,328.99
			For Class 52 Rating, Deduct.....	-1,811.97	
			For Class 54 Rating, Add.....	2,495.02	
			For Class 55 Rating, Add.....	3,721.67	
			For Class 56 Rating, Add.....	4,931.85	
40 05 19 00-3489	EA		30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	19,448.29	1,332.15
			For Class 52 Rating, Deduct.....	-1,917.29	
			For Class 54 Rating, Add.....	2,638.70	
			For Class 55 Rating, Add.....	3,935.31	
			For Class 56 Rating, Add.....	5,214.48	
40 05 19 00-3490	EA		30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	20,410.54	1,335.31
			For Class 52 Rating, Deduct.....	-2,022.61	
			For Class 54 Rating, Add.....	2,782.38	
			For Class 55 Rating, Add.....	4,148.94	
			For Class 56 Rating, Add.....	5,497.11	
40 05 19 00-3491	EA		30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	21,372.80	1,338.46
			For Class 52 Rating, Deduct.....	-2,127.93	
			For Class 54 Rating, Add.....	2,926.06	
			For Class 55 Rating, Add.....	4,362.57	
			For Class 56 Rating, Add.....	5,779.73	
40 05 19 00-3492	EA		30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	22,335.07	1,341.62
			For Class 52 Rating, Deduct.....	-2,233.26	
			For Class 54 Rating, Add.....	3,069.74	
			For Class 55 Rating, Add.....	4,576.20	
			For Class 56 Rating, Add.....	6,062.36	
40 05 19 00-3493	EA		30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	23,297.33	1,344.78
			For Class 52 Rating, Deduct.....	-2,338.58	
			For Class 54 Rating, Add.....	3,213.42	
			For Class 55 Rating, Add.....	4,789.84	
			For Class 56 Rating, Add.....	6,344.99	
40 05 19 00-3494	EA		30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	24,259.60	1,347.92
			For Class 52 Rating, Deduct.....	-2,443.90	
			For Class 54 Rating, Add.....	3,357.10	
			For Class 55 Rating, Add.....	5,003.47	
			For Class 56 Rating, Add.....	6,627.62	
40 05 19 00-3495	EA		30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	25,221.85	1,351.08
			For Class 52 Rating, Deduct.....	-2,549.22	
			For Class 54 Rating, Add.....	3,500.78	
			For Class 55 Rating, Add.....	5,217.10	
			For Class 56 Rating, Add.....	6,910.25	
40 05 19 00-3496	EA		30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	26,184.12	1,354.24
			For Class 52 Rating, Deduct.....	-2,654.55	
			For Class 54 Rating, Add.....	3,644.46	
			For Class 55 Rating, Add.....	5,430.73	
			For Class 56 Rating, Add.....	7,192.88	
40 05 19 00-3497	EA		30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	27,146.37	1,357.40
			For Class 52 Rating, Deduct.....	-2,759.87	
			For Class 54 Rating, Add.....	3,788.14	
			For Class 55 Rating, Add.....	5,644.37	
			For Class 56 Rating, Add.....	7,475.50	
40 05 19 00-3498	EA		30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	28,108.63	1,360.55
			For Class 52 Rating, Deduct.....	-2,865.19	
			For Class 54 Rating, Add.....	3,931.82	
			For Class 55 Rating, Add.....	5,858.00	
			For Class 56 Rating, Add.....	7,758.13	
40 05 19 00-3499	EA		30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	29,070.90	1,363.71
			For Class 52 Rating, Deduct.....	-2,970.51	
			For Class 54 Rating, Add.....	4,075.50	
			For Class 55 Rating, Add.....	6,071.63	
			For Class 56 Rating, Add.....	8,040.76	
40 05 19 00-3500	EA		30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	30,033.16	1,366.87
			For Class 52 Rating, Deduct.....	-3,075.84	
			For Class 54 Rating, Add.....	4,219.17	
			For Class 55 Rating, Add.....	6,285.26	
			For Class 56 Rating, Add.....	8,323.39	
40 05 19 00-3501	EA		30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	30,995.43	1,370.02
			For Class 52 Rating, Deduct.....	-3,181.16	
			For Class 54 Rating, Add.....	4,362.85	
			For Class 55 Rating, Add.....	6,498.90	
			For Class 56 Rating, Add.....	8,606.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3502	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	31,957.69	1,373.18
			For Class 52 Rating, Deduct	-3,286.48	
			For Class 54 Rating, Add	4,506.53	
			For Class 55 Rating, Add	6,712.53	
			For Class 56 Rating, Add	8,888.65	
40 05 19 00-3503	EA		30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	32,919.94	1,376.34
			For Class 52 Rating, Deduct	-3,391.80	
			For Class 54 Rating, Add	4,650.21	
			For Class 55 Rating, Add	6,926.16	
			For Class 56 Rating, Add	9,171.27	
40 05 19 00-3504	EA		30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	33,882.20	1,379.50
			For Class 52 Rating, Deduct	-3,497.13	
			For Class 54 Rating, Add	4,793.89	
			For Class 55 Rating, Add	7,139.79	
			For Class 56 Rating, Add	9,453.90	
40 05 19 00-3505	EA		30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	34,844.46	1,382.64
			For Class 52 Rating, Deduct	-3,602.45	
			For Class 54 Rating, Add	4,937.57	
			For Class 55 Rating, Add	7,353.43	
			For Class 56 Rating, Add	9,736.53	
40 05 19 00-3506	EA		30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	35,806.73	1,385.80
			For Class 52 Rating, Deduct	-3,707.77	
			For Class 54 Rating, Add	5,081.25	
			For Class 55 Rating, Add	7,567.06	
			For Class 56 Rating, Add	10,019.16	
40 05 19 00-3507	EA		30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	36,768.99	1,388.96
			For Class 52 Rating, Deduct	-3,813.10	
			For Class 54 Rating, Add	5,224.93	
			For Class 55 Rating, Add	7,780.69	
			For Class 56 Rating, Add	10,301.79	
40 05 19 00-3508	EA		30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	37,731.26	1,392.12
			For Class 52 Rating, Deduct	-3,918.42	
			For Class 54 Rating, Add	5,368.61	
			For Class 55 Rating, Add	7,994.32	
			For Class 56 Rating, Add	10,584.42	
40 05 19 00-3509	EA		30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	38,693.51	1,395.27
			For Class 52 Rating, Deduct	-4,023.74	
			For Class 54 Rating, Add	5,512.29	
			For Class 55 Rating, Add	8,207.95	
			For Class 56 Rating, Add	10,867.04	
40 05 19 00-3510	EA		30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	39,655.77	1,398.43
			For Class 52 Rating, Deduct	-4,129.06	
			For Class 54 Rating, Add	5,655.97	
			For Class 55 Rating, Add	8,421.59	
			For Class 56 Rating, Add	11,149.67	
40 05 19 00-3511	EA		30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	40,618.04	1,401.60
			For Class 52 Rating, Deduct	-4,234.39	
			For Class 54 Rating, Add	5,799.65	
			For Class 55 Rating, Add	8,635.22	
			For Class 56 Rating, Add	11,432.30	
40 05 19 00-3512	EA		30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	41,580.29	1,404.74
			For Class 52 Rating, Deduct	-4,339.71	
			For Class 54 Rating, Add	5,943.32	
			For Class 55 Rating, Add	8,848.85	
			For Class 56 Rating, Add	11,714.93	
40 05 19 00-3513	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	42,542.56	1,407.90
			For Class 52 Rating, Deduct	-4,445.03	
			For Class 54 Rating, Add	6,087.00	
			For Class 55 Rating, Add	9,062.49	
			For Class 56 Rating, Add	11,997.56	
40 05 19 00-3514			36" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3515	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	12,279.35	1,647.82
			For Class 52 Rating, Deduct	-1,076.09	
			For Class 54 Rating, Add	1,497.36	
			For Class 55 Rating, Add	2,241.45	
			For Class 56 Rating, Add	2,975.77	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3516	EA		36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	13,569.17	1,650.98
			For Class 52 Rating, Deduct.....	-1,217.45	
			For Class 54 Rating, Add.....	1,690.17	
			For Class 55 Rating, Add.....	2,528.13	
			For Class 56 Rating, Add.....	3,355.02	
40 05 19 00-3517	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	14,858.99	1,654.13
			For Class 52 Rating, Deduct.....	-1,358.80	
			For Class 54 Rating, Add.....	1,882.98	
			For Class 55 Rating, Add.....	2,814.81	
			For Class 56 Rating, Add.....	3,734.28	
40 05 19 00-3518	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	16,148.82	1,657.28
			For Class 52 Rating, Deduct.....	-1,500.15	
			For Class 54 Rating, Add.....	2,075.80	
			For Class 55 Rating, Add.....	3,101.49	
			For Class 56 Rating, Add.....	4,113.54	
40 05 19 00-3519	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	17,438.62	1,660.44
			For Class 52 Rating, Deduct.....	-1,641.51	
			For Class 54 Rating, Add.....	2,268.61	
			For Class 55 Rating, Add.....	3,388.16	
			For Class 56 Rating, Add.....	4,492.80	
40 05 19 00-3520	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	18,728.44	1,663.59
			For Class 52 Rating, Deduct.....	-1,782.86	
			For Class 54 Rating, Add.....	2,461.42	
			For Class 55 Rating, Add.....	3,674.84	
			For Class 56 Rating, Add.....	4,872.05	
40 05 19 00-3521	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	20,018.27	1,666.75
			For Class 52 Rating, Deduct.....	-1,924.22	
			For Class 54 Rating, Add.....	2,654.24	
			For Class 55 Rating, Add.....	3,961.52	
			For Class 56 Rating, Add.....	5,251.31	
40 05 19 00-3522	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	21,308.09	1,669.91
			For Class 52 Rating, Deduct.....	-2,065.57	
			For Class 54 Rating, Add.....	2,847.05	
			For Class 55 Rating, Add.....	4,248.20	
			For Class 56 Rating, Add.....	5,630.57	
40 05 19 00-3523	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	22,597.91	1,673.08
			For Class 52 Rating, Deduct.....	-2,206.92	
			For Class 54 Rating, Add.....	3,039.86	
			For Class 55 Rating, Add.....	4,534.88	
			For Class 56 Rating, Add.....	6,009.83	
40 05 19 00-3524	EA		36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	23,887.73	1,676.22
			For Class 52 Rating, Deduct.....	-2,348.28	
			For Class 54 Rating, Add.....	3,232.68	
			For Class 55 Rating, Add.....	4,821.56	
			For Class 56 Rating, Add.....	6,389.09	
40 05 19 00-3525	EA		36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	25,177.55	1,679.38
			For Class 52 Rating, Deduct.....	-2,489.63	
			For Class 54 Rating, Add.....	3,425.49	
			For Class 55 Rating, Add.....	5,108.23	
			For Class 56 Rating, Add.....	6,768.35	
40 05 19 00-3526	EA		36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	26,467.37	1,682.55
			For Class 52 Rating, Deduct.....	-2,630.99	
			For Class 54 Rating, Add.....	3,618.30	
			For Class 55 Rating, Add.....	5,394.91	
			For Class 56 Rating, Add.....	7,147.60	
40 05 19 00-3527	EA		36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	27,757.18	1,685.69
			For Class 52 Rating, Deduct.....	-2,772.34	
			For Class 54 Rating, Add.....	3,811.11	
			For Class 55 Rating, Add.....	5,681.59	
			For Class 56 Rating, Add.....	7,526.86	
40 05 19 00-3528	EA		36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	29,047.01	1,688.86
			For Class 52 Rating, Deduct.....	-2,913.70	
			For Class 54 Rating, Add.....	4,003.93	
			For Class 55 Rating, Add.....	5,968.27	
			For Class 56 Rating, Add.....	7,906.12	
40 05 19 00-3529	EA		36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	30,336.82	1,692.02
			For Class 52 Rating, Deduct.....	-3,055.05	
			For Class 54 Rating, Add.....	4,196.74	
			For Class 55 Rating, Add.....	6,254.94	
			For Class 56 Rating, Add.....	8,285.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3530	EA		36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	31,626.65	1,695.18
			For Class 52 Rating, Deduct	-3,196.40	
			For Class 54 Rating, Add	4,389.55	
			For Class 55 Rating, Add	6,541.62	
			For Class 56 Rating, Add	8,664.64	
40 05 19 00-3531	EA		36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	32,916.47	1,698.32
			For Class 52 Rating, Deduct	-3,337.76	
			For Class 54 Rating, Add	4,582.37	
			For Class 55 Rating, Add	6,828.30	
			For Class 56 Rating, Add	9,043.69	
40 05 19 00-3532	EA		36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	34,206.28	1,701.48
			For Class 52 Rating, Deduct	-3,479.11	
			For Class 54 Rating, Add	4,775.18	
			For Class 55 Rating, Add	7,114.98	
			For Class 56 Rating, Add	9,423.15	
40 05 19 00-3533	EA		36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	35,496.11	1,704.64
			For Class 52 Rating, Deduct	-3,620.47	
			For Class 54 Rating, Add	4,967.99	
			For Class 55 Rating, Add	7,401.66	
			For Class 56 Rating, Add	9,802.41	
40 05 19 00-3534	EA		36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	36,785.93	1,707.80
			For Class 52 Rating, Deduct	-3,761.62	
			For Class 54 Rating, Add	5,160.80	
			For Class 55 Rating, Add	7,688.34	
			For Class 56 Rating, Add	10,181.67	
40 05 19 00-3535	EA		36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	38,075.74	1,710.95
			For Class 52 Rating, Deduct	-3,903.17	
			For Class 54 Rating, Add	5,353.62	
			For Class 55 Rating, Add	7,975.01	
			For Class 56 Rating, Add	10,560.92	
40 05 19 00-3536	EA		36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	39,365.56	1,714.11
			For Class 52 Rating, Deduct	-4,044.53	
			For Class 54 Rating, Add	5,546.43	
			For Class 55 Rating, Add	8,261.69	
			For Class 56 Rating, Add	10,940.18	
40 05 19 00-3537	EA		36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	40,655.38	1,717.27
			For Class 52 Rating, Deduct	-4,185.88	
			For Class 54 Rating, Add	5,739.24	
			For Class 55 Rating, Add	8,548.37	
			For Class 56 Rating, Add	11,319.44	
40 05 19 00-3538	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	41,945.20	1,720.42
			For Class 52 Rating, Deduct	-4,327.24	
			For Class 54 Rating, Add	5,932.06	
			For Class 55 Rating, Add	8,835.05	
			For Class 56 Rating, Add	11,698.70	
40 05 19 00-3539	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	43,235.02	1,723.58
			For Class 52 Rating, Deduct	-4,468.59	
			For Class 54 Rating, Add	6,124.87	
			For Class 55 Rating, Add	9,121.72	
			For Class 56 Rating, Add	12,077.96	
40 05 19 00-3540	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	44,524.85	1,726.74
			For Class 52 Rating, Deduct	-4,609.94	
			For Class 54 Rating, Add	6,317.68	
			For Class 55 Rating, Add	9,408.40	
			For Class 56 Rating, Add	12,457.22	
40 05 19 00-3541	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	45,814.66	1,729.90
			For Class 52 Rating, Deduct	-4,751.30	
			For Class 54 Rating, Add	6,510.49	
			For Class 55 Rating, Add	9,695.08	
			For Class 56 Rating, Add	12,836.47	
40 05 19 00-3542	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	47,104.49	1,733.04
			For Class 52 Rating, Deduct	-4,892.65	
			For Class 54 Rating, Add	6,703.31	
			For Class 55 Rating, Add	9,981.76	
			For Class 56 Rating, Add	13,215.73	
40 05 19 00-3543	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	48,394.30	1,736.20
			For Class 52 Rating, Deduct	-5,034.01	
			For Class 54 Rating, Add	6,896.12	
			For Class 55 Rating, Add	10,268.44	
			For Class 56 Rating, Add	13,594.99	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3544	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	49,684.11	1,739.36
			For Class 52 Rating, Deduct	-5,175.36	
			For Class 54 Rating, Add	7,088.93	
			For Class 55 Rating, Add	10,555.11	
			For Class 56 Rating, Add	13,974.25	
40 05 19 00-3545	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	50,973.94	1,742.51
			For Class 52 Rating, Deduct	-5,316.71	
			For Class 54 Rating, Add	7,281.75	
			For Class 55 Rating, Add	10,841.79	
			For Class 56 Rating, Add	14,353.51	
40 05 19 00-3546	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	52,263.76	1,745.67
			For Class 52 Rating, Deduct	-5,458.07	
			For Class 54 Rating, Add	7,474.56	
			For Class 55 Rating, Add	11,128.47	
			For Class 56 Rating, Add	14,732.76	
40 05 19 00-3547	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	53,553.59	1,748.83
			For Class 52 Rating, Deduct	-5,599.42	
			For Class 54 Rating, Add	7,667.37	
			For Class 55 Rating, Add	11,415.15	
			For Class 56 Rating, Add	15,112.02	
40 05 19 00-3548	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	54,843.40	1,751.99
			For Class 52 Rating, Deduct	-5,740.78	
			For Class 54 Rating, Add	7,860.18	
			For Class 55 Rating, Add	11,701.83	
			For Class 56 Rating, Add	15,491.28	
40 05 19 00-3549	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	56,133.22	1,755.14
			For Class 52 Rating, Deduct	-5,882.13	
			For Class 54 Rating, Add	8,053.00	
			For Class 55 Rating, Add	11,988.51	
			For Class 56 Rating, Add	15,870.54	
40 05 19 00-3550			42" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3551	EA		42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,262.10	2,077.14
			For Class 52 Rating, Deduct	-1,442.64	
			For Class 54 Rating, Add	2,005.01	
			For Class 55 Rating, Add	3,000.16	
			For Class 56 Rating, Add	3,982.20	
40 05 19 00-3552	EA		42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,162.94	2,080.29
			For Class 52 Rating, Deduct	-1,651.21	
			For Class 54 Rating, Add	2,289.47	
			For Class 55 Rating, Add	3,423.10	
			For Class 56 Rating, Add	4,541.71	
40 05 19 00-3553	EA		42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,048.04	2,083.45
			For Class 52 Rating, Deduct	-1,858.04	
			For Class 54 Rating, Add	2,571.58	
			For Class 55 Rating, Add	3,842.52	
			For Class 56 Rating, Add	5,096.58	
40 05 19 00-3554	EA		42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,952.03	2,086.60
			For Class 52 Rating, Deduct	-2,066.96	
			For Class 54 Rating, Add	2,856.51	
			For Class 55 Rating, Add	4,266.16	
			For Class 56 Rating, Add	5,657.02	
40 05 19 00-3555	EA		42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,843.43	2,089.76
			For Class 52 Rating, Deduct	-2,274.48	
			For Class 54 Rating, Add	3,139.56	
			For Class 55 Rating, Add	4,686.99	
			For Class 56 Rating, Add	6,213.74	
40 05 19 00-3556	EA		42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,753.72	2,092.91
			For Class 52 Rating, Deduct	-2,484.09	
			For Class 54 Rating, Add	3,425.45	
			For Class 55 Rating, Add	5,112.03	
			For Class 56 Rating, Add	6,776.04	
40 05 19 00-3557	EA		42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	27,645.11	2,096.07
			For Class 52 Rating, Deduct	-2,691.62	
			For Class 54 Rating, Add	3,708.50	
			For Class 55 Rating, Add	5,532.86	
			For Class 56 Rating, Add	7,332.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3558	EA	42"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	29,558.55	2,099.23
			For Class 52 Rating, Deduct	-2,901.57	
			For Class 54 Rating, Add	3,994.85	
			For Class 55 Rating, Add	5,958.61	
			For Class 56 Rating, Add	7,895.98	
40 05 19 00-3559	EA	42"	Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	31,453.09	2,102.39
			For Class 52 Rating, Deduct	-3,109.44	
			For Class 54 Rating, Add	4,278.37	
			For Class 55 Rating, Add	6,380.14	
			For Class 56 Rating, Add	8,453.64	
40 05 19 00-3560	EA	42"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	33,369.69	2,105.54
			For Class 52 Rating, Deduct	-3,319.74	
			For Class 54 Rating, Add	4,565.20	
			For Class 55 Rating, Add	6,806.59	
			For Class 56 Rating, Add	9,017.79	
40 05 19 00-3561	EA	42"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	35,264.23	2,108.70
			For Class 52 Rating, Deduct	-3,527.62	
			For Class 54 Rating, Add	4,848.72	
			For Class 55 Rating, Add	7,228.12	
			For Class 56 Rating, Add	9,575.44	
40 05 19 00-3562	EA	42"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	37,180.81	2,111.86
			For Class 52 Rating, Deduct	-3,737.91	
			For Class 54 Rating, Add	5,135.55	
			For Class 55 Rating, Add	7,654.56	
			For Class 56 Rating, Add	10,139.60	
40 05 19 00-3563	EA	42"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	39,078.51	2,115.01
			For Class 52 Rating, Deduct	-3,946.13	
			For Class 54 Rating, Add	5,419.55	
			For Class 55 Rating, Add	8,076.80	
			For Class 56 Rating, Add	10,698.18	
40 05 19 00-3564	EA	42"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	40,979.35	2,118.17
			For Class 52 Rating, Deduct	-4,154.70	
			For Class 54 Rating, Add	5,704.01	
			For Class 55 Rating, Add	8,499.73	
			For Class 56 Rating, Add	11,257.69	
40 05 19 00-3565	EA	42"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	42,892.80	2,121.33
			For Class 52 Rating, Deduct	-4,364.65	
			For Class 54 Rating, Add	5,990.37	
			For Class 55 Rating, Add	8,925.48	
			For Class 56 Rating, Add	11,820.91	
40 05 19 00-3566	EA	42"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	44,790.48	2,124.49
			For Class 52 Rating, Deduct	-4,572.87	
			For Class 54 Rating, Add	6,274.36	
			For Class 55 Rating, Add	9,347.71	
			For Class 56 Rating, Add	12,379.49	
40 05 19 00-3567	EA	42"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	46,710.23	2,127.63
			For Class 52 Rating, Deduct	-4,783.52	
			For Class 54 Rating, Add	6,561.66	
			For Class 55 Rating, Add	9,774.86	
			For Class 56 Rating, Add	12,944.58	
40 05 19 00-3568	EA	42"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	48,611.07	2,130.79
			For Class 52 Rating, Deduct	-4,992.08	
			For Class 54 Rating, Add	6,846.13	
			For Class 55 Rating, Add	10,197.80	
			For Class 56 Rating, Add	13,504.09	
40 05 19 00-3569	EA	42"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	50,527.65	2,133.96
			For Class 52 Rating, Deduct	-5,202.38	
			For Class 54 Rating, Add	7,132.96	
			For Class 55 Rating, Add	10,624.25	
			For Class 56 Rating, Add	14,068.24	
40 05 19 00-3570	EA	42"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	52,428.50	2,137.10
			For Class 52 Rating, Deduct	-5,410.95	
			For Class 54 Rating, Add	7,417.42	
			For Class 55 Rating, Add	11,047.18	
			For Class 56 Rating, Add	14,627.75	
40 05 19 00-3571	EA	42"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	54,348.24	2,140.27
			For Class 52 Rating, Deduct	-5,621.60	
			For Class 54 Rating, Add	7,704.73	
			For Class 55 Rating, Add	11,474.33	
			For Class 56 Rating, Add	15,192.84	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3572	EA		42" Flanged x Plain End (FxE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	56,249.09	2,143.43
			For Class 52 Rating, Deduct.....	-5,830.16	
			For Class 54 Rating, Add.....	7,989.19	
			For Class 55 Rating, Add.....	11,897.27	
			For Class 56 Rating, Add.....	15,752.35	
40 05 19 00-3573	EA		42" Flanged x Plain End (FxE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	58,168.83	2,146.59
			For Class 52 Rating, Deduct.....	-6,040.81	
			For Class 54 Rating, Add.....	8,276.49	
			For Class 55 Rating, Add.....	12,324.42	
			For Class 56 Rating, Add.....	16,317.43	
40 05 19 00-3574	EA		42" Flanged x Plain End (FxE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	60,066.51	2,149.74
			For Class 52 Rating, Deduct.....	-6,249.03	
			For Class 54 Rating, Add.....	8,560.49	
			For Class 55 Rating, Add.....	12,746.65	
			For Class 56 Rating, Add.....	16,876.01	
40 05 19 00-3575	EA		42" Flanged x Plain End (FxE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	61,989.40	2,152.90
			For Class 52 Rating, Deduct.....	-6,460.02	
			For Class 54 Rating, Add.....	8,848.26	
			For Class 55 Rating, Add.....	13,174.51	
			For Class 56 Rating, Add.....	17,442.03	
40 05 19 00-3576	EA		42" Flanged x Plain End (FxE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	63,890.24	2,156.06
			For Class 52 Rating, Deduct.....	-6,668.59	
			For Class 54 Rating, Add.....	9,132.73	
			For Class 55 Rating, Add.....	13,597.44	
			For Class 56 Rating, Add.....	18,001.54	
40 05 19 00-3577	EA		42" Flanged x Plain End (FxE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	65,806.84	2,159.21
			For Class 52 Rating, Deduct.....	-6,878.88	
			For Class 54 Rating, Add.....	9,419.55	
			For Class 55 Rating, Add.....	14,023.89	
			For Class 56 Rating, Add.....	18,565.69	
40 05 19 00-3578	EA		42" Flanged x Plain End (FxE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	67,710.83	2,162.36
			For Class 52 Rating, Deduct.....	-7,087.80	
			For Class 54 Rating, Add.....	9,704.49	
			For Class 55 Rating, Add.....	14,447.53	
			For Class 56 Rating, Add.....	19,126.13	
40 05 19 00-3579	EA		42" Flanged x Plain End (FxE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	69,240.02	2,165.52
			For Class 52 Rating, Deduct.....	-7,255.48	
			For Class 54 Rating, Add.....	9,933.21	
			For Class 55 Rating, Add.....	14,787.59	
			For Class 56 Rating, Add.....	19,576.00	
40 05 19 00-3580	EA		42" Flanged x Plain End (FxE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	71,531.41	2,168.68
			For Class 52 Rating, Deduct.....	-7,507.01	
			For Class 54 Rating, Add.....	10,276.26	
			For Class 55 Rating, Add.....	15,297.61	
			For Class 56 Rating, Add.....	20,250.72	
40 05 19 00-3581	EA		42" Flanged x Plain End (FxE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	73,429.10	2,171.83
			For Class 52 Rating, Deduct.....	-7,715.23	
			For Class 54 Rating, Add.....	10,560.25	
			For Class 55 Rating, Add.....	15,719.85	
			For Class 56 Rating, Add.....	20,809.30	
40 05 19 00-3582	EA		42" Flanged x Plain End (FxE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	75,348.84	2,174.99
			For Class 52 Rating, Deduct.....	-7,925.87	
			For Class 54 Rating, Add.....	10,847.56	
			For Class 55 Rating, Add.....	16,147.00	
			For Class 56 Rating, Add.....	21,374.39	
40 05 19 00-3583	EA		42" Flanged x Plain End (FxE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	77,249.68	2,178.15
			For Class 52 Rating, Deduct.....	-8,134.44	
			For Class 54 Rating, Add.....	11,132.02	
			For Class 55 Rating, Add.....	16,569.93	
			For Class 56 Rating, Add.....	21,933.90	
40 05 19 00-3584	EA		42" Flanged x Plain End (FxE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	79,172.57	2,181.31
			For Class 52 Rating, Deduct.....	-8,345.43	
			For Class 54 Rating, Add.....	11,419.79	
			For Class 55 Rating, Add.....	16,997.79	
			For Class 56 Rating, Add.....	22,499.91	
40 05 19 00-3585	EA		42" Flanged x Plain End (FxE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	81,070.26	2,184.46
			For Class 52 Rating, Deduct.....	-8,553.65	
			For Class 54 Rating, Add.....	11,703.79	
			For Class 55 Rating, Add.....	17,420.02	
			For Class 56 Rating, Add.....	23,058.49	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
40 05 19 00-3586	48" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)			
40 05 19 00-3587	EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,010.57		2,610.62
	For Class 52 Rating, Deduct	-1,876.06		
	For Class 54 Rating, Add	2,605.73		
	For Class 55 Rating, Add	3,898.21		
	For Class 56 Rating, Add	5,173.65		
40 05 19 00-3588	EA 48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,742.91		2,613.78
	For Class 52 Rating, Deduct	-2,176.09		
	For Class 54 Rating, Add	3,014.92		
	For Class 55 Rating, Add	4,506.58		
	For Class 56 Rating, Add	5,978.45		
40 05 19 00-3589	EA 48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,484.69		2,616.94
	For Class 52 Rating, Deduct	-2,477.16		
	For Class 54 Rating, Add	3,425.53		
	For Class 55 Rating, Add	5,117.04		
	For Class 56 Rating, Add	6,786.04		
40 05 19 00-3590	EA 48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	29,254.83		2,620.10
	For Class 52 Rating, Deduct	-2,781.35		
	For Class 54 Rating, Add	3,840.39		
	For Class 55 Rating, Add	5,733.83		
	For Class 56 Rating, Add	7,601.99		
40 05 19 00-3591	EA 48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	32,018.66		2,623.25
	For Class 52 Rating, Deduct	-3,084.84		
	For Class 54 Rating, Add	4,254.30		
	For Class 55 Rating, Add	6,349.21		
	For Class 56 Rating, Add	8,416.08		
40 05 19 00-3592	EA 48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	34,785.64		2,626.41
	For Class 52 Rating, Deduct	-3,388.69		
	For Class 54 Rating, Add	4,668.69		
	For Class 55 Rating, Add	6,965.30		
	For Class 56 Rating, Add	9,231.10		
40 05 19 00-3593	EA 48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	37,571.52		2,629.57
	For Class 52 Rating, Deduct	-3,694.61		
	For Class 54 Rating, Add	5,085.91		
	For Class 55 Rating, Add	7,585.60		
	For Class 56 Rating, Add	10,051.69		
40 05 19 00-3594	EA 48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	40,351.10		2,632.71
	For Class 52 Rating, Deduct	-3,999.83		
	For Class 54 Rating, Add	5,502.19		
	For Class 55 Rating, Add	8,204.49		
	For Class 56 Rating, Add	10,870.43		
40 05 19 00-3595	EA 48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	43,124.39		2,635.87
	For Class 52 Rating, Deduct	-4,304.37		
	For Class 54 Rating, Add	5,917.52		
	For Class 55 Rating, Add	8,821.98		
	For Class 56 Rating, Add	11,687.31		
40 05 19 00-3596	EA 48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	45,922.86		2,639.03
	For Class 52 Rating, Deduct	-4,611.68		
	For Class 54 Rating, Add	6,336.63		
	For Class 55 Rating, Add	9,445.09		
	For Class 56 Rating, Add	12,511.62		
40 05 19 00-3597	EA 48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	48,708.73		2,642.19
	For Class 52 Rating, Deduct	-4,917.60		
	For Class 54 Rating, Add	6,753.85		
	For Class 55 Rating, Add	10,065.39		
	For Class 56 Rating, Add	13,332.22		
40 05 19 00-3598	EA 48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	51,510.37		2,645.34
	For Class 52 Rating, Deduct	-5,225.25		
	For Class 54 Rating, Add	7,173.44		
	For Class 55 Rating, Add	10,689.20		
	For Class 56 Rating, Add	14,157.46		
40 05 19 00-3599	EA 48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	54,293.09		2,648.50
	For Class 52 Rating, Deduct	-5,530.82		
	For Class 54 Rating, Add	7,590.19		
	For Class 55 Rating, Add	11,308.80		
	For Class 56 Rating, Add	14,977.13		
40 05 19 00-3600	EA 48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	57,082.13		2,651.66
	For Class 52 Rating, Deduct	-5,837.09		
	For Class 54 Rating, Add	8,007.88		
	For Class 55 Rating, Add	11,929.80		
	For Class 56 Rating, Add	15,798.65		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3601	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	59,886.91	2,654.82
			For Class 52 Rating, Deduct.....	-6,145.09	
			For Class 54 Rating, Add.....	8,427.94	
			For Class 55 Rating, Add.....	12,554.31	
			For Class 56 Rating, Add.....	16,624.82	
40 05 19 00-3602	EA		48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	62,675.94	2,657.97
			For Class 52 Rating, Deduct.....	-6,451.36	
			For Class 54 Rating, Add.....	8,845.63	
			For Class 55 Rating, Add.....	13,175.31	
			For Class 56 Rating, Add.....	17,446.35	
40 05 19 00-3603	EA		48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	65,464.97	2,661.13
			For Class 52 Rating, Deduct.....	-6,757.62	
			For Class 54 Rating, Add.....	9,263.33	
			For Class 55 Rating, Add.....	13,796.32	
			For Class 56 Rating, Add.....	18,267.87	
40 05 19 00-3604	EA		48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	68,272.88	2,664.29
			For Class 52 Rating, Deduct.....	-7,065.97	
			For Class 54 Rating, Add.....	9,683.85	
			For Class 55 Rating, Add.....	14,421.53	
			For Class 56 Rating, Add.....	19,094.97	
40 05 19 00-3605	EA		48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	71,065.07	2,667.43
			For Class 52 Rating, Deduct.....	-7,372.58	
			For Class 54 Rating, Add.....	10,102.02	
			For Class 55 Rating, Add.....	15,043.24	
			For Class 56 Rating, Add.....	19,917.43	
40 05 19 00-3606	EA		48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	73,854.09	2,670.59
			For Class 52 Rating, Deduct.....	-7,678.85	
			For Class 54 Rating, Add.....	10,519.72	
			For Class 55 Rating, Add.....	15,664.24	
			For Class 56 Rating, Add.....	20,738.95	
40 05 19 00-3607	EA		48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	76,668.33	2,673.75
			For Class 52 Rating, Deduct.....	-7,987.89	
			For Class 54 Rating, Add.....	10,941.19	
			For Class 55 Rating, Add.....	16,290.86	
			For Class 56 Rating, Add.....	21,567.91	
40 05 19 00-3608	EA		48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	79,463.65	2,676.92
			For Class 52 Rating, Deduct.....	-8,294.85	
			For Class 54 Rating, Add.....	11,359.83	
			For Class 55 Rating, Add.....	16,913.26	
			For Class 56 Rating, Add.....	22,391.29	
40 05 19 00-3609	EA		48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	82,255.83	2,680.06
			For Class 52 Rating, Deduct.....	-8,601.46	
			For Class 54 Rating, Add.....	11,778.00	
			For Class 55 Rating, Add.....	17,534.97	
			For Class 56 Rating, Add.....	23,213.75	
40 05 19 00-3610	EA		48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	85,066.91	2,683.23
			For Class 52 Rating, Deduct.....	-8,910.16	
			For Class 54 Rating, Add.....	12,199.00	
			For Class 55 Rating, Add.....	18,160.89	
			For Class 56 Rating, Add.....	24,041.77	
40 05 19 00-3611	EA		48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	87,862.24	2,686.39
			For Class 52 Rating, Deduct.....	-9,217.12	
			For Class 54 Rating, Add.....	12,617.64	
			For Class 55 Rating, Add.....	18,783.29	
			For Class 56 Rating, Add.....	24,865.16	
40 05 19 00-3612	EA		48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	90,654.41	2,689.53
			For Class 52 Rating, Deduct.....	-9,523.73	
			For Class 54 Rating, Add.....	13,035.80	
			For Class 55 Rating, Add.....	19,405.00	
			For Class 56 Rating, Add.....	25,687.61	
40 05 19 00-3613	EA		48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	93,468.64	2,692.70
			For Class 52 Rating, Deduct.....	-9,832.77	
			For Class 54 Rating, Add.....	13,457.28	
			For Class 55 Rating, Add.....	20,031.62	
			For Class 56 Rating, Add.....	26,516.57	
40 05 19 00-3614	EA		48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	96,263.97	2,695.86
			For Class 52 Rating, Deduct.....	-10,139.73	
			For Class 54 Rating, Add.....	13,875.92	
			For Class 55 Rating, Add.....	20,654.02	
			For Class 56 Rating, Add.....	27,339.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3615 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	98,728.59	2,699.02
For Class 52 Rating, Deduct	-10,410.31	
For Class 54 Rating, Add	14,244.95	
For Class 55 Rating, Add	21,202.68	
For Class 56 Rating, Add	28,065.78	
40 05 19 00-3616 EA 48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	101,876.67	2,702.17
For Class 52 Rating, Deduct	-10,756.07	
For Class 54 Rating, Add	14,716.50	
For Class 55 Rating, Add	21,903.75	
For Class 56 Rating, Add	28,993.22	
40 05 19 00-3617 EA 48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	104,668.86	2,705.33
For Class 52 Rating, Deduct	-11,062.69	
For Class 54 Rating, Add	15,134.67	
For Class 55 Rating, Add	22,525.46	
For Class 56 Rating, Add	29,815.68	
40 05 19 00-3618 EA 48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	107,489.38	2,708.49
For Class 52 Rating, Deduct	-11,372.42	
For Class 54 Rating, Add	15,557.09	
For Class 55 Rating, Add	23,153.48	
For Class 56 Rating, Add	30,646.49	
40 05 19 00-3619 EA 48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	110,281.57	2,711.63
For Class 52 Rating, Deduct	-11,679.03	
For Class 54 Rating, Add	15,975.26	
For Class 55 Rating, Add	23,775.19	
For Class 56 Rating, Add	31,468.95	
40 05 19 00-3620 EA 48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	113,073.73	2,714.79
For Class 52 Rating, Deduct	-11,985.65	
For Class 54 Rating, Add	16,393.42	
For Class 55 Rating, Add	24,396.89	
For Class 56 Rating, Add	32,291.40	
40 05 19 00-3621 EA 48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	115,894.25	2,717.95
For Class 52 Rating, Deduct	-12,295.38	
For Class 54 Rating, Add	16,815.84	
For Class 55 Rating, Add	25,024.92	
For Class 56 Rating, Add	33,122.22	
40 05 19 00-3622 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows (40 05 19 00-2073)		
40 05 19 00-3623 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	830.37	152.30
40 05 19 00-3624 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,213.83	194.76
40 05 19 00-3625 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,728.32	220.60
40 05 19 00-3626 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,466.14	279.68
40 05 19 00-3627 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,069.92	310.13
40 05 19 00-3628 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,762.17	336.90
40 05 19 00-3629 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	4,620.07	415.36
40 05 19 00-3630 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	5,794.00	498.43
40 05 19 00-3631 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	7,083.21	627.65
40 05 19 00-3632 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	10,522.93	710.73
40 05 19 00-3633 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	16,319.50	941.48
40 05 19 00-3634 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	24,177.36	1,066.09
40 05 19 00-3635 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	41,220.91	1,218.39
40 05 19 00-3636 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	54,522.99	1,495.29
40 05 19 00-3637 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbows (40 05 19 00-2073)		
40 05 19 00-3638 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	791.74	152.30
40 05 19 00-3639 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,150.01	194.76
40 05 19 00-3640 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,570.44	220.60
40 05 19 00-3641 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,241.08	279.68
40 05 19 00-3642 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,779.35	310.13
40 05 19 00-3643 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,236.45	336.90
40 05 19 00-3644 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,978.46	415.36
40 05 19 00-3645 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	5,061.69	498.43
40 05 19 00-3646 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	6,366.02	627.65
40 05 19 00-3647 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	8,351.21	710.73
40 05 19 00-3648 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	15,934.87	941.48
40 05 19 00-3649 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	23,663.40	1,066.09
40 05 19 00-3650 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	35,748.78	1,218.39
40 05 19 00-3651 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	48,330.31	1,495.29
40 05 19 00-3652 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows (40 05 19 00-2073)		
40 05 19 00-3653 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	790.06	152.30

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3654	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,128.17	194.76
40 05 19 00-3655	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,557.00	220.60
40 05 19 00-3656	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,189.01	279.68
40 05 19 00-3657	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,895.24	310.13
40 05 19 00-3658	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,590.85	336.90
40 05 19 00-3659	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,059.08	415.36
40 05 19 00-3660	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	5,159.11	498.43
40 05 19 00-3661	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	6,784.24	627.65
40 05 19 00-3662	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,316.98	710.73
40 05 19 00-3663	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	16,106.19	941.48
40 05 19 00-3664	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	24,054.75	1,066.09
40 05 19 00-3665	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	36,529.79	1,218.39
40 05 19 00-3666	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	49,351.51	1,495.29
40 05 19 00-3667 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows (40 05 19 00-2073)				
40 05 19 00-3668	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	855.56	152.30
40 05 19 00-3669	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,250.78	194.76
40 05 19 00-3670	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,607.39	220.60
40 05 19 00-3671	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,368.73	279.68
40 05 19 00-3672	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,229.48	310.13
40 05 19 00-3673	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,676.51	336.90
40 05 19 00-3674	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,420.20	415.36
40 05 19 00-3675	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,159.11	498.43
40 05 19 00-3676	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	6,784.24	627.65
40 05 19 00-3677	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,659.62	710.73
40 05 19 00-3678	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	16,274.15	941.48
40 05 19 00-3679	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	24,226.07	1,066.09
40 05 19 00-3680	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	36,709.51	1,218.39
40 05 19 00-3681	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	49,714.30	1,495.29
40 05 19 00-3682 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows (40 05 19 00-2073)				
40 05 19 00-3683	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,179.98	173.53
40 05 19 00-3684	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,518.69	186.45
40 05 19 00-3685	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,649.94	207.68
40 05 19 00-3686	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,260.48	215.98
40 05 19 00-3687	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,304.40	237.22
40 05 19 00-3688	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,473.46	250.13
40 05 19 00-3689	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,699.36	252.90
40 05 19 00-3690	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,012.87	265.83
40 05 19 00-3691	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,156.72	295.37
40 05 19 00-3692	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,140.52	265.83
40 05 19 00-3693	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,405.32	278.75
40 05 19 00-3694	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,691.93	308.29
40 05 19 00-3695	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,011.32	323.99
40 05 19 00-3696	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,614.82	305.06
40 05 19 00-3697	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,830.91	317.98
40 05 19 00-3698	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,265.33	347.52
40 05 19 00-3699	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,585.70	362.75
40 05 19 00-3700	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,847.84	376.13
40 05 19 00-3701	EA	18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,196.75	346.59
40 05 19 00-3702	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,854.57	359.52
40 05 19 00-3703	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,944.67	389.05
40 05 19 00-3704	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,164.27	404.28
40 05 19 00-3705	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,527.18	417.67
40 05 19 00-3706	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,925.90	456.90
40 05 19 00-3707	EA	20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,245.30	411.21
40 05 19 00-3708	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,530.26	424.13
40 05 19 00-3709	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,628.12	453.67
40 05 19 00-3710	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,829.23	468.90
40 05 19 00-3711	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,439.04	482.28
40 05 19 00-3712	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,256.62	521.50
40 05 19 00-3713	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,633.64	563.05
40 05 19 00-3714	EA	24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,244.81	452.74
40 05 19 00-3715	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,524.74	465.66
40 05 19 00-3716	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,992.74	495.20
40 05 19 00-3717	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,331.58	510.43
40 05 19 00-3718	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,983.39	523.81
40 05 19 00-3719	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,570.21	563.05
40 05 19 00-3720	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,737.29	604.58
40 05 19 00-3721	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,199.12	597.90
40 05 19 00-3722	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,298.94	625.81
40 05 19 00-3723	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,997.77	639.20
40 05 19 00-3724	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,711.61	678.42
40 05 19 00-3725	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,559.97	719.96
40 05 19 00-3726	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	22,150.15	784.57
40 05 19 00-3727	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,670.98	826.11



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3728	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	21,411.47	846.87
40 05 19 00-3729	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,389.14	888.40
40 05 19 00-3730	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	24,524.69	1,003.79
40 05 19 00-3731	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	31,720.34	923.02
40 05 19 00-3732	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	32,490.38	964.56
40 05 19 00-3733	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	32,470.36	1,079.94
40 05 19 00-3734	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	46,305.57	1,142.24
40 05 19 00-3735	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	44,293.44	1,114.55
40 05 19 00-3736	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	48,149.95	1,229.93
40 05 19 00-3737	EA	48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	49,529.24	1,292.24
40 05 19 00-3738	EA	48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	61,425.34	1,368.38
40 05 19 00-3739 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-2073)				
40 05 19 00-3740	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	973.13	152.30
40 05 19 00-3741	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,526.24	194.76
40 05 19 00-3742	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,259.07	220.60
40 05 19 00-3743	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,151.42	279.68
40 05 19 00-3744	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,400.16	310.13
40 05 19 00-3745	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	5,156.23	336.90
40 05 19 00-3746	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,570.09	415.36
40 05 19 00-3747	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	8,041.30	498.43
40 05 19 00-3748	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	10,732.98	627.65
40 05 19 00-3749	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	15,632.27	710.73
40 05 19 00-3750	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	27,043.75	941.48
40 05 19 00-3751	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	40,911.21	1,066.09
40 05 19 00-3752	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	62,988.53	1,218.39
40 05 19 00-3753 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbows (40 05 19 00-2073)				
40 05 19 00-3754	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	2,025.31	173.53
40 05 19 00-3755	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,409.44	186.45
40 05 19 00-3756	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,219.52	207.68
40 05 19 00-3757	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,605.38	215.98
40 05 19 00-3758	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,984.35	237.22
40 05 19 00-3759	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	4,122.07	250.13
40 05 19 00-3760	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	8,317.25	252.90
40 05 19 00-3761	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	6,387.32	265.83
40 05 19 00-3762	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	6,432.08	295.37
40 05 19 00-3763	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	8,552.01	278.75
40 05 19 00-3764	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	12,162.17	308.29
40 05 19 00-3765	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	11,893.59	323.99
40 05 19 00-3766	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	15,675.19	317.98
40 05 19 00-3767	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	15,574.42	347.52
40 05 19 00-3768	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	14,534.39	362.75
40 05 19 00-3769	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	14,423.33	376.13
40 05 19 00-3770	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	21,352.05	404.28
40 05 19 00-3771	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	19,455.89	417.67
40 05 19 00-3772	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	17,598.92	456.90
40 05 19 00-3773	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	28,701.21	482.28
40 05 19 00-3774	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	24,166.63	521.50
40 05 19 00-3775	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	19,635.53	563.05
40 05 19 00-3776	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	35,995.16	523.81
40 05 19 00-3777	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	28,782.95	563.05
40 05 19 00-3778	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	21,574.25	604.58

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3779 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	29,458.49	597.90
40 05 19 00-3780 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-2073)		
40 05 19 00-3781 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,020.16	152.30
40 05 19 00-3782 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,433.86	194.76
40 05 19 00-3783 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,321.22	220.60
40 05 19 00-3784 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,104.39	279.68
40 05 19 00-3785 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,143.19	310.13
40 05 19 00-3786 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,909.33	336.90
40 05 19 00-3787 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,983.90	415.36
40 05 19 00-3788 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,409.78	498.43
40 05 19 00-3789 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	9,572.38	627.65
40 05 19 00-3790 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	13,421.92	710.73
40 05 19 00-3791 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	21,630.40	941.48
40 05 19 00-3792 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	30,764.75	1,066.09
40 05 19 00-3793 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	54,098.41	1,218.39
40 05 19 00-3794 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	60,715.68	1,495.29
40 05 19 00-3795 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-2073)		
40 05 19 00-3796 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	1,259.12	244.60
40 05 19 00-3797 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	1,628.27	300.91
40 05 19 00-3798 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	2,343.19	335.98
40 05 19 00-3799 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	3,310.23	436.59
40 05 19 00-3800 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	4,416.75	476.28
40 05 19 00-3801 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	5,907.36	512.28
40 05 19 00-3802 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	6,394.00	646.12
40 05 19 00-3803 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	7,934.63	738.41
40 05 19 00-3804 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	9,981.83	932.26
40 05 19 00-3805 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	14,675.35	1,029.17
40 05 19 00-3806 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	24,094.33	1,421.45
40 05 19 00-3807 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	34,028.07	1,629.14
40 05 19 00-3808 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee	72,595.01	1,882.97
40 05 19 00-3809 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tees (40 05 19 00-2073)		
40 05 19 00-3810 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	1,671.98	273.21
40 05 19 00-3811 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,160.74	278.75
40 05 19 00-3812 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,129.91	313.83
40 05 19 00-3813 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,872.29	308.29
40 05 19 00-3814 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,802.83	343.37
40 05 19 00-3815 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	2,922.05	365.52
40 05 19 00-3816 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,660.29	323.99
40 05 19 00-3817 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,619.37	359.05
40 05 19 00-3818 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	3,777.23	381.21
40 05 19 00-3819 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	4,356.88	452.28
40 05 19 00-3820 EA 14" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,230.14	336.90
40 05 19 00-3821 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,108.60	371.98
40 05 19 00-3822 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,289.96	394.13
40 05 19 00-3823 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,495.07	465.20
40 05 19 00-3824 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,777.36	489.66
40 05 19 00-3825 EA 16" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,309.09	376.13
40 05 19 00-3826 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,315.84	411.21
40 05 19 00-3827 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,438.42	433.36
40 05 19 00-3828 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,563.95	504.43
40 05 19 00-3829 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,882.15	528.89
40 05 19 00-3830 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	7,019.91	551.50
40 05 19 00-3831 EA 18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	5,936.40	452.74
40 05 19 00-3832 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,986.12	474.89
40 05 19 00-3833 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,944.32	545.96
40 05 19 00-3834 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	6,566.53	570.43
40 05 19 00-3835 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,087.24	593.04
40 05 19 00-3836 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,524.52	687.65
40 05 19 00-3837 EA 20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,459.64	517.35
40 05 19 00-3838 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,597.34	539.51
40 05 19 00-3839 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	8,864.59	610.58
40 05 19 00-3840 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,165.35	635.04
40 05 19 00-3841 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,251.67	657.65
40 05 19 00-3842 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,921.78	752.27
40 05 19 00-3843 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,102.84	803.03
40 05 19 00-3844 EA 24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	9,772.20	558.89
40 05 19 00-3845 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,151.76	581.04
40 05 19 00-3846 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	10,452.61	652.11
40 05 19 00-3847 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,581.40	676.57
40 05 19 00-3848 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	11,825.61	699.19



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3849	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	12,108.36	793.80
40 05 19 00-3850	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	15,623.42	844.56
40 05 19 00-3851	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	16,084.07	902.49
40 05 19 00-3852	EA	30" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,310.78	674.26
40 05 19 00-3853	EA	30" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,399.78	696.42
40 05 19 00-3854	EA	30" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,846.74	767.50
40 05 19 00-3855	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,883.80	791.96
40 05 19 00-3856	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,918.06	814.56
40 05 19 00-3857	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	20,061.41	909.18
40 05 19 00-3858	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	20,697.64	959.94
40 05 19 00-3859	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	21,711.39	1,089.17
40 05 19 00-3860	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	26,447.79	1,144.55
40 05 19 00-3861	EA	36" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,737.82	965.02
40 05 19 00-3862	EA	36" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,989.46	982.55
40 05 19 00-3863	EA	36" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,121.11	1,032.86
40 05 19 00-3864	EA	36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,320.81	1,052.71
40 05 19 00-3865	EA	36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,405.18	1,070.71
40 05 19 00-3866	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,617.44	1,137.62
40 05 19 00-3867	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,746.14	1,183.78
40 05 19 00-3868	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	29,116.37	1,280.69
40 05 19 00-3869	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	29,700.40	1,329.16
40 05 19 00-3870	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	38,392.22	1,525.29
40 05 19 00-3871	EA	42" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,106.42	930.40
40 05 19 00-3872	EA	42" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,202.82	953.02
40 05 19 00-3873	EA	42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,463.75	1,047.63
40 05 19 00-3874	EA	42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,601.13	1,098.39
40 05 19 00-3875	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	43,037.10	1,227.62
40 05 19 00-3876	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	43,603.06	1,283.00
40 05 19 00-3877	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	54,605.78	1,559.91
40 05 19 00-3878	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	69,678.74	1,705.28
40 05 19 00-3879	EA	48" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,541.41	1,080.40
40 05 19 00-3880	EA	48" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,575.67	1,103.01
40 05 19 00-3881	EA	48" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,897.06	1,197.62
40 05 19 00-3882	EA	48" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,973.98	1,248.38
40 05 19 00-3883	EA	48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	57,409.95	1,377.61
40 05 19 00-3884	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	57,917.12	1,433.00
40 05 19 00-3885	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	59,178.16	1,709.90
40 05 19 00-3886 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-2073)				
40 05 19 00-3887	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,356.54	244.60
40 05 19 00-3888	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,912.12	300.91
40 05 19 00-3889	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	2,823.56	335.98
40 05 19 00-3890	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	4,220.57	436.59
40 05 19 00-3891	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	5,679.81	476.28
40 05 19 00-3892	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	6,399.48	512.28
40 05 19 00-3893	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	7,845.17	646.12
40 05 19 00-3894	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	9,478.18	738.41
40 05 19 00-3895	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	12,455.88	932.26
40 05 19 00-3896	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	17,903.54	1,029.17
40 05 19 00-3897	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	29,630.30	1,421.45
40 05 19 00-3898	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	42,157.34	1,629.14
40 05 19 00-3899 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-2073)				
40 05 19 00-3900	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,112.99	244.60
40 05 19 00-3901	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,616.51	300.91
40 05 19 00-3902	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	2,381.82	335.98
40 05 19 00-3903	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	3,138.91	436.59
40 05 19 00-3904	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	4,729.16	476.28
40 05 19 00-3905	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	6,320.54	512.28
40 05 19 00-3906 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-2073)				
40 05 19 00-3907	EA	4" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,432.56	336.90
40 05 19 00-3908	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,005.96	365.06
40 05 19 00-3909	EA	6" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,086.40	407.05
40 05 19 00-3910	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,581.09	371.05
40 05 19 00-3911	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,755.99	419.98
40 05 19 00-3912	EA	8" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,818.65	451.36
40 05 19 00-3913	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,383.33	400.59
40 05 19 00-3914	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,653.96	449.52
40 05 19 00-3915	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,946.74	480.90
40 05 19 00-3916	EA	10" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,750.57	593.50
40 05 19 00-3917	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,414.17	415.82
40 05 19 00-3918	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,585.71	464.74
40 05 19 00-3919	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,878.49	496.13

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-3920	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,732.69	608.73
40 05 19 00-3921	EA	12" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,383.99	642.42
40 05 19 00-3922	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,514.66	478.13
40 05 19 00-3923	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,807.42	509.51
40 05 19 00-3924	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,317.33	622.12
40 05 19 00-3925	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,811.78	655.81
40 05 19 00-3926	EA	14" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,101.90	687.65
40 05 19 00-3927	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,576.81	517.35
40 05 19 00-3928	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,916.61	548.73
40 05 19 00-3929	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,428.18	661.35
40 05 19 00-3930	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,969.68	695.04
40 05 19 00-3931	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,905.16	726.88
40 05 19 00-3932	EA	16" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,833.05	876.87
40 05 19 00-3933	EA	18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,913.53	558.89
40 05 19 00-3934	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,253.32	590.27
40 05 19 00-3935	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,667.49	702.88
40 05 19 00-3936	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,208.97	736.57
40 05 19 00-3937	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,330.49	768.41
40 05 19 00-3938	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,999.48	918.40
40 05 19 00-3939	EA	18" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,380.95	978.40
40 05 19 00-3940	EA	20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,884.16	623.50
40 05 19 00-3941	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,247.48	654.88
40 05 19 00-3942	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,628.05	767.50
40 05 19 00-3943	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,204.82	801.18
40 05 19 00-3944	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,360.55	833.03
40 05 19 00-3945	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,376.59	983.02
40 05 19 00-3946	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,781.58	1,043.02
40 05 19 00-3947	EA	20" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,812.62	1,236.85
40 05 19 00-3948	EA	24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,721.81	665.04
40 05 19 00-3949	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,982.67	696.42
40 05 19 00-3950	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,519.43	809.03
40 05 19 00-3951	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,886.25	842.72
40 05 19 00-3952	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,092.37	874.56
40 05 19 00-3953	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,687.46	1,024.55
40 05 19 00-3954	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	17,515.48	1,084.55
40 05 19 00-3955	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	18,383.05	1,207.09
40 05 19 00-3956	EA	24" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	20,068.99	1,347.61
40 05 19 00-3957	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	20,980.37	958.10
40 05 19 00-3958	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,084.05	989.94
40 05 19 00-3959	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,704.33	1,139.93
40 05 19 00-3960	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,911.12	1,199.93
40 05 19 00-3961	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	22,822.92	1,393.76
40 05 19 00-3962	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,411.06	1,462.99
40 05 19 00-3963	EA	30" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	32,949.15	1,901.42
40 05 19 00-3964	EA	36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,358.59	1,218.85
40 05 19 00-3965	EA	36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,399.85	1,246.08
40 05 19 00-3966	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,927.80	1,368.38
40 05 19 00-3967	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,122.56	1,423.76
40 05 19 00-3968	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,874.54	1,585.29
40 05 19 00-3969	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	31,870.87	1,647.59
40 05 19 00-3970	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	42,502.17	2,005.26
40 05 19 00-3971	EA	36" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	46,394.82	2,192.17
40 05 19 00-3972	EA	42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,651.50	1,278.38
40 05 19 00-3973	EA	42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,804.54	1,338.38
40 05 19 00-3974	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	44,672.65	1,532.22
40 05 19 00-3975	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	45,734.92	1,601.44
40 05 19 00-3976	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	58,898.88	2,039.88
40 05 19 00-3977	EA	42" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	80,092.12	2,268.33
40 05 19 00-3978	EA	48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	59,440.21	1,682.21
40 05 19 00-3979	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	60,502.47	1,751.43
40 05 19 00-3980	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	62,890.04	2,189.87

40 05 19 00-3981 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-2073)

40 05 19 00-3982	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,013.70	173.53
40 05 19 00-3983	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,344.01	186.45
40 05 19 00-3984	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,429.91	207.68
40 05 19 00-3985	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,788.51	215.98
40 05 19 00-3986	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,783.72	237.22
40 05 19 00-3987	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,001.49	250.13
40 05 19 00-3988	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,277.53	231.68
40 05 19 00-3989	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,314.73	252.90
40 05 19 00-3990	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,477.08	265.83
40 05 19 00-3991	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,693.16	295.37
40 05 19 00-3992	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,799.56	265.83
40 05 19 00-3993	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,015.65	278.75
40 05 19 00-3994	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,228.36	308.29
40 05 19 00-3995	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,137.93	323.99
40 05 19 00-3996	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,324.25	305.06
40 05 19 00-3997	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,172.51	317.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3998 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,427.21	347.52
40 05 19 00-3999 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,833.24	362.75
40 05 19 00-4000 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,308.69	376.13
40 05 19 00-4001 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,021.49	359.52
40 05 19 00-4002 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,311.46	389.05
40 05 19 00-4003 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,272.40	404.28
40 05 19 00-4004 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,793.20	417.67
40 05 19 00-4005 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,750.18	456.90
40 05 19 00-4006 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,898.73	424.13
40 05 19 00-4007 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,205.49	453.67
40 05 19 00-4008 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,084.13	468.90
40 05 19 00-4009 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,724.17	482.28
40 05 19 00-4010 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,392.26	521.50
40 05 19 00-4011 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,427.68	563.05
40 05 19 00-4012 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,082.39	495.20
40 05 19 00-4013 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,651.34	510.43
40 05 19 00-4014 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,812.71	523.81
40 05 19 00-4015 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,998.75	563.05
40 05 19 00-4016 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	8,210.53	604.58
40 05 19 00-4017 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	8,620.29	597.90
40 05 19 00-4018 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	11,703.45	678.42
40 05 19 00-4019 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	12,107.35	719.96
40 05 19 00-4020 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	12,882.12	784.57
40 05 19 00-4021 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	14,070.39	826.11
40 05 19 00-4022 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	16,554.48	740.72
40 05 19 00-4023 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	16,795.45	782.27
40 05 19 00-4024 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	17,837.28	846.87
40 05 19 00-4025 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	18,768.56	888.40
40 05 19 00-4026 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	21,314.98	1,003.79
40 05 19 00-4027 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	25,981.93	964.56
40 05 19 00-4028 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	29,043.97	1,079.94
40 05 19 00-4029 EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	32,564.77	1,142.24
40 05 19 00-4030 EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	34,395.56	1,114.55
40 05 19 00-4031 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	36,441.46	1,229.93
40 05 19 00-4032 EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	40,444.28	1,292.24
40 05 19 00-4033 EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	45,010.60	1,368.38

40 05 19 00-4034

Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-2073)

40 05 19 00-4035 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,082.56	173.53
40 05 19 00-4036 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,422.95	186.45
40 05 19 00-4037 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,550.85	207.68
40 05 19 00-4038 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,788.51	215.98
40 05 19 00-4039 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,867.70	237.22
40 05 19 00-4040 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,082.11	250.13
40 05 19 00-4041 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,277.53	231.68
40 05 19 00-4042 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,408.79	252.90
40 05 19 00-4043 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,574.49	265.83
40 05 19 00-4044 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,862.79	295.37
40 05 19 00-4045 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,799.56	265.83
40 05 19 00-4046 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,965.26	278.75
40 05 19 00-4047 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,204.85	308.29
40 05 19 00-4048 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,571.27	323.99
40 05 19 00-4049 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,324.25	305.06
40 05 19 00-4050 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,536.98	317.98
40 05 19 00-4051 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,828.63	347.52
40 05 19 00-4052 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,143.96	362.75
40 05 19 00-4053 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,308.69	376.13
40 05 19 00-4054 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,021.49	359.52
40 05 19 00-4055 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,311.46	389.05
40 05 19 00-4056 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,625.11	404.28
40 05 19 00-4057 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,793.20	417.67
40 05 19 00-4058 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,144.89	456.90
40 05 19 00-4059 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,160.74	424.13
40 05 19 00-4060 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,390.25	453.67
40 05 19 00-4061 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,598.09	468.90
40 05 19 00-4062 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,724.17	482.28
40 05 19 00-4063 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,149.76	521.50
40 05 19 00-4064 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,422.64	563.05
40 05 19 00-4065 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,269.44	465.66
40 05 19 00-4066 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,203.32	495.20
40 05 19 00-4067 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,332.22	510.43
40 05 19 00-4068 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,456.63	523.81
40 05 19 00-4069 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,883.90	563.05
40 05 19 00-4070 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,210.53	604.58
40 05 19 00-4071 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,620.29	597.90
40 05 19 00-4072 EA 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,427.10	639.20
40 05 19 00-4073 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,453.59	678.42
40 05 19 00-4074 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,162.77	719.96
40 05 19 00-4075 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,882.12	784.57

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4076 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,070.39	826.11
40 05 19 00-4077 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	15,573.60	740.72
40 05 19 00-4078 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	16,217.67	782.27
40 05 19 00-4079 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	17,160.40	846.87
40 05 19 00-4080 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	18,709.77	888.40
40 05 19 00-4081 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	21,612.27	1,003.79
40 05 19 00-4082 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	25,981.93	964.56
40 05 19 00-4083 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	29,043.97	1,079.94
40 05 19 00-4084 EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	32,564.77	1,142.24
40 05 19 00-4085 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	36,441.46	1,229.93
40 05 19 00-4086 EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	40,444.28	1,292.24
40 05 19 00-4087 EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	45,010.60	1,368.38

40 05 19 00-4088 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-2073)

40 05 19 00-4089 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	499.04	60.00
40 05 19 00-4090 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	759.07	88.61
40 05 19 00-4091 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,012.68	105.22
40 05 19 00-4092 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,470.90	122.76
40 05 19 00-4093 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,948.16	144.00
40 05 19 00-4094 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	2,681.84	161.52
40 05 19 00-4095 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	3,239.17	184.60
40 05 19 00-4096 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	4,360.48	258.45
40 05 19 00-4097 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	5,852.44	323.06
40 05 19 00-4098 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	8,574.15	392.29
40 05 19 00-4099 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	12,420.92	456.90
40 05 19 00-4100 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	23,268.83	503.05
40 05 19 00-4101 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	33,352.81	553.81
40 05 19 00-4102 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	44,455.72	623.04

40 05 19 00-4103 Ductile Iron Bolt Packs (40 05 19)

Note: Labor installation is included with pipe fittings or valves.

40 05 19 00-4104 EA 4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	45.55	
Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	12.75	
For Hot Dip Galvanized, Add	18.22	
40 05 19 00-4105 EA 6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	70.28	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	19.68	
For Hot Dip Galvanized, Add	28.11	
40 05 19 00-4106 EA 8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	76.32	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	21.37	
For Hot Dip Galvanized, Add	30.53	
40 05 19 00-4107 EA 10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	171.43	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	48.00	
For Hot Dip Galvanized, Add	68.57	
40 05 19 00-4108 EA 12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	172.93	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	48.42	
For Hot Dip Galvanized, Add	69.17	
40 05 19 00-4109 EA 14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	193.75	
Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	54.25	
For Hot Dip Galvanized, Add	77.50	
40 05 19 00-4110 EA 16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	325.71	
Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	91.20	
For Hot Dip Galvanized, Add	130.28	
40 05 19 00-4111 EA 18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	473.18	
Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	132.49	
For Hot Dip Galvanized, Add	189.27	
40 05 19 00-4112 EA 20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	597.45	
Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	167.29	
For Hot Dip Galvanized, Add	238.98	
40 05 19 00-4113 EA 24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	854.84	
Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	239.36	
For Hot Dip Galvanized, Add	341.94	
40 05 19 00-4114 EA 30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,350.78	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	378.22	
For Hot Dip Galvanized, Add	540.31	
40 05 19 00-4115 EA 36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,926.91	
Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	539.53	
For Hot Dip Galvanized, Add	770.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4116 EA 42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,478.92	
Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	694.10	
For Hot Dip Galvanized, Add	991.57	
40 05 19 00-4117 EA 48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	3,029.78	
Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	848.34	
For Hot Dip Galvanized, Add	1,211.91	
40 05 19 00-4118 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 (40 05 19)		
Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-4119 Full Face Flange Styrene Butadiene (SBR) Gaskets (40 05 19 00-4118)		
40 05 19 00-4120 EA 4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	8.24	
40 05 19 00-4121 EA 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	10.48	
40 05 19 00-4122 EA 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	14.23	
40 05 19 00-4123 EA 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	16.47	
40 05 19 00-4124 EA 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	17.97	
40 05 19 00-4125 EA 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.95	
40 05 19 00-4126 EA 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	36.69	
40 05 19 00-4127 EA 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	38.94	
40 05 19 00-4128 EA 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	59.90	
40 05 19 00-4129 EA 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	64.40	
40 05 19 00-4130 EA 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	83.12	
40 05 19 00-4131 EA 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	95.10	
40 05 19 00-4132 EA 42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	101.84	
40 05 19 00-4133 EA 48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	111.57	
40 05 19 00-4134 Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-4118)		
Note: (Acrylonitrile Butadiene)		
40 05 19 00-4135 EA 4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	25.46	
40 05 19 00-4136 EA 6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	35.94	
40 05 19 00-4137 EA 8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	55.41	
40 05 19 00-4138 EA 10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	60.65	
40 05 19 00-4139 EA 12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	65.15	
40 05 19 00-4140 EA 14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	122.80	
40 05 19 00-4141 EA 16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	151.26	
40 05 19 00-4142 EA 18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	152.01	
40 05 19 00-4143 EA 20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	158.00	
40 05 19 00-4144 EA 24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	166.98	
40 05 19 00-4145 EA 30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	184.95	
40 05 19 00-4146 EA 36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	203.67	
40 05 19 00-4147 EA 42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	289.79	
40 05 19 00-4148 EA 48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	316.74	
40 05 19 00-4149 Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-4118)		
40 05 19 00-4150 EA 4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	22.46	
40 05 19 00-4151 EA 6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	29.20	
40 05 19 00-4152 EA 8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	39.69	
40 05 19 00-4153 EA 10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	46.43	
40 05 19 00-4154 EA 12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	51.67	
40 05 19 00-4155 EA 14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	85.36	
40 05 19 00-4156 EA 16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	102.59	
40 05 19 00-4157 EA 18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	103.33	
40 05 19 00-4158 EA 20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	105.58	
40 05 19 00-4159 EA 24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	122.80	
40 05 19 00-4160 EA 30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	150.51	
40 05 19 00-4161 EA 36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	171.48	
40 05 19 00-4162 EA 42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	245.61	
40 05 19 00-4163 EA 48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	271.07	
40 05 19 00-4164 Full Face Flange Neoprene Gaskets (40 05 19 00-4118)		
Note: (Polychloroprene)		
40 05 19 00-4165 EA 4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	26.21	
40 05 19 00-4166 EA 6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	36.69	
40 05 19 00-4167 EA 8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	56.16	
40 05 19 00-4168 EA 10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	60.65	
40 05 19 00-4169 EA 12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	65.15	
40 05 19 00-4170 EA 14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	86.86	
40 05 19 00-4171 EA 16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	152.76	
40 05 19 00-4172 EA 18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	153.50	
40 05 19 00-4173 EA 20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	162.49	
40 05 19 00-4174 EA 24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	164.74	
40 05 19 00-4175 EA 30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	178.96	
40 05 19 00-4176 EA 36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	201.43	
40 05 19 00-4177 EA 42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	292.03	
40 05 19 00-4178 EA 48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	319.74	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-4179 Full Face Flange FKM Gaskets (40 05 19 00-4118)

Note: (Fluoroelastomer Fluorel Viton®)

40 05 19 00-4180	EA	4" Full Face Flange FKM Gasket, 1/8" Thick	146.36	
40 05 19 00-4181	EA	6" Full Face Flange FKM Gasket, 1/8" Thick	217.91	
40 05 19 00-4182	EA	8" Full Face Flange FKM Gasket, 1/8" Thick	291.09	
40 05 19 00-4183	EA	10" Full Face Flange FKM Gasket, 1/8" Thick	351.26	
40 05 19 00-4184	EA	12" Full Face Flange FKM Gasket, 1/8" Thick	456.96	
40 05 19 00-4185	EA	14" Full Face Flange FKM Gasket, 1/8" Thick	835.87	
40 05 19 00-4186	EA	16" Full Face Flange FKM Gasket, 1/8" Thick	957.83	
40 05 19 00-4187	EA	18" Full Face Flange FKM Gasket, 1/8" Thick	1,003.37	
40 05 19 00-4188	EA	20" Full Face Flange FKM Gasket, 1/8" Thick	1,070.04	
40 05 19 00-4189	EA	24" Full Face Flange FKM Gasket, 1/8" Thick	1,479.84	
40 05 19 00-4190	EA	30" Full Face Flange FKM Gasket, 1/8" Thick	1,774.18	
40 05 19 00-4191	EA	36" Full Face Flange FKM Gasket, 1/8" Thick	1,871.76	
40 05 19 00-4192	EA	42" Full Face Flange FKM Gasket, 1/8" Thick	2,333.60	
40 05 19 00-4193	EA	48" Full Face Flange FKM Gasket, 1/8" Thick	2,445.80	

40 05 19 00-4194 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)

40 05 19 00-4195	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	423.81	82.38
40 05 19 00-4196	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	587.00	100.56
40 05 19 00-4197	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	867.28	122.65
40 05 19 00-4198	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,189.99	149.62
40 05 19 00-4199	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,510.30	182.46
40 05 19 00-4200	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,422.06	222.60
40 05 19 00-4201	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,804.16	271.67
40 05 19 00-4202	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,931.11	331.35
40 05 19 00-4203	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,816.09	404.33
40 05 19 00-4204	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	5,368.81	493.18
40 05 19 00-4205	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	6,917.14	601.79
40 05 19 00-4206	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	10,273.24	734.09
40 05 19 00-4207	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	26,718.30	895.67
40 05 19 00-4208	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	34,124.60	1,092.65

40 05 23 Stainless Steel Process Pipe and Tubing (40 05)**40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)****40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 Lb. Screwed Fittings Assemblies (40 05)**

23 23)

Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.

40 05 23 23-0002	LF	1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	34.88	11.11
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	3.27	
		For Work In Restricted Working Space, Add	6.69	
40 05 23 23-0003	LF	3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	39.68	12.73
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	3.43	
		For Work In Restricted Working Space, Add	7.95	
40 05 23 23-0004	LF	1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	46.20	14.36
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	4.02	
		For Work In Restricted Working Space, Add	9.23	
40 05 23 23-0005	LF	1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	52.61	17.33
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	5.07	
		For Work In Restricted Working Space, Add	9.94	
40 05 23 23-0006	LF	1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	57.83	17.83
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	5.81	
		For Work In Restricted Working Space, Add	10.65	
40 05 23 23-0007	LF	2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	70.00	23.57
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	7.08	
		For Work In Restricted Working Space, Add	12.83	
40 05 23 23-0008	LF	2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	99.81	29.05
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	12.18	
		For Work In Restricted Working Space, Add	15.89	
40 05 23 23-0009	LF	3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	125.80	33.67
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	15.86	
		For Work In Restricted Working Space, Add	19.44	
40 05 23 23-0010	LF	4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	170.06	33.67
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Work In Restricted Working Space, Add	24.67	

40 05 23 23-0011 Stainless Steel Tubing And Fittings (40 05 23 23)**40 05 23 23-0012 Type 304 Tubing (40 05 23 23-0011)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0013 0.035" Wall (40 05 23 23-0012)		
40 05 23 23-0014 LF 1/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	9.62	3.65
For Work In Restricted Working Space, Add	2.18	
40 05 23 23-0015 LF 3/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	11.17	4.34
For Work In Restricted Working Space, Add	2.61	
40 05 23 23-0016 LF 1/2", 0.035" Wall, Type 304, Stainless Steel Tubing.....	13.32	5.15
For Work In Restricted Working Space, Add	3.05	
40 05 23 23-0017 LF 5/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	21.20	5.82
For Work In Restricted Working Space, Add	3.49	
40 05 23 23-0018 LF 3/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	25.07	6.50
For Work In Restricted Working Space, Add	3.93	
40 05 23 23-0019 LF 7/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	27.75	7.32
For Work In Restricted Working Space, Add	4.37	
40 05 23 23-0020 LF 1", 0.035" Wall, Type 304, Stainless Steel Tubing.....	31.13	8.80
For Work In Restricted Working Space, Add	5.24	
40 05 23 23-0021 0.049" Wall (40 05 23 23-0012)		
40 05 23 23-0022 LF 1/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	15.67	4.34
For Work In Restricted Working Space, Add	2.61	
40 05 23 23-0023 LF 3/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	17.50	5.15
For Work In Restricted Working Space, Add	3.05	
40 05 23 23-0024 LF 1/2", 0.049" Wall, Type 304, Stainless Steel Tubing.....	20.99	5.82
For Work In Restricted Working Space, Add	3.49	
40 05 23 23-0025 LF 5/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	26.55	7.32
For Work In Restricted Working Space, Add	4.37	
40 05 23 23-0026 LF 3/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	30.45	8.80
For Work In Restricted Working Space, Add	5.24	
40 05 23 23-0027 LF 7/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	34.28	10.16
For Work In Restricted Working Space, Add	6.11	
40 05 23 23-0028 LF 1", 0.049" Wall, Type 304, Stainless Steel Tubing.....	39.53	11.52
For Work In Restricted Working Space, Add	6.95	
40 05 23 23-0029 0.065" Wall (40 05 23 23-0012)		
40 05 23 23-0030 LF 1/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	18.29	5.15
For Work In Restricted Working Space, Add	3.05	
40 05 23 23-0031 LF 3/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	21.05	5.82
For Work In Restricted Working Space, Add	3.49	
40 05 23 23-0032 LF 1/2", 0.065" Wall, Type 304, Stainless Steel Tubing.....	25.97	7.32
For Work In Restricted Working Space, Add	4.37	
40 05 23 23-0033 LF 5/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	30.56	8.80
For Work In Restricted Working Space, Add	5.24	
40 05 23 23-0034 LF 3/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	36.01	10.16
For Work In Restricted Working Space, Add	6.11	
40 05 23 23-0035 LF 7/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	41.36	11.52
For Work In Restricted Working Space, Add	6.95	
40 05 23 23-0036 LF 1", 0.065" Wall, Type 304, Stainless Steel Tubing.....	46.61	13.01
For Work In Restricted Working Space, Add	7.82	
40 05 23 23-0037 Type 304 Tube Fittings (40 05 23 23-0011)		
40 05 23 23-0038 90 Degree Elbows (40 05 23 23-0037)		
40 05 23 23-0039 EA 1/4", Type 304, Stainless Steel, 90 Degree Elbow	58.71	14.64
For Work In Restricted Working Space, Add	8.74	
40 05 23 23-0040 EA 3/8", Type 304, Stainless Steel, 90 Degree Elbow	69.18	15.99
For Work In Restricted Working Space, Add	9.56	
40 05 23 23-0041 EA 1/2", Type 304, Stainless Steel, 90 Degree Elbow	103.01	18.02
For Work In Restricted Working Space, Add	10.84	
40 05 23 23-0042 EA 5/8", Type 304, Stainless Steel, 90 Degree Elbow	110.22	20.19
For Work In Restricted Working Space, Add	12.14	
40 05 23 23-0043 EA 3/4", Type 304, Stainless Steel, 90 Degree Elbow	123.13	21.81
For Work In Restricted Working Space, Add	13.11	
40 05 23 23-0044 EA 7/8", Type 304, Stainless Steel, 90 Degree Elbow	167.04	24.26
For Work In Restricted Working Space, Add	14.52	
40 05 23 23-0045 EA 1", Type 304, Stainless Steel, 90 Degree Elbow	212.31	28.86
For Work In Restricted Working Space, Add	17.30	
40 05 23 23-0046 Union Tees (40 05 23 23-0037)		
40 05 23 23-0047 EA 1/4", Type 304, Stainless Steel, Union Tee	92.90	21.81
For Work In Restricted Working Space, Add	13.11	
40 05 23 23-0048 EA 3/8", Type 304, Stainless Steel, Union Tee	112.21	24.26
For Work In Restricted Working Space, Add	14.52	
40 05 23 23-0049 EA 1/2", Type 304, Stainless Steel, Union Tee	152.10	27.09
For Work In Restricted Working Space, Add	16.26	
40 05 23 23-0050 EA 5/8", Type 304, Stainless Steel, Union Tee	163.99	30.76
For Work In Restricted Working Space, Add	18.47	
40 05 23 23-0051 EA 3/4", Type 304, Stainless Steel, Union Tee	208.20	33.06
For Work In Restricted Working Space, Add	19.82	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0052 EA 7/8", Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	327.56 21.97	36.58
40 05 23 23-0053 EA 1", Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	392.54 26.22	43.76
40 05 23 23-0054 Unions (40 05 23 23-0037)		
40 05 23 23-0055 EA 1/4", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	88.99 13.11	21.81
40 05 23 23-0056 EA 3/8", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	114.42 14.52	24.26
40 05 23 23-0057 EA 1/2", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	153.55 16.26	27.09
40 05 23 23-0058 EA 5/8", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	186.72 18.47	30.76
40 05 23 23-0059 EA 3/4", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	222.03 19.82	33.06
40 05 23 23-0060 EA 7/8", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	338.60 21.97	36.58
40 05 23 23-0061 EA 1", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	361.26 26.22	43.76
40 05 23 23-0062 Male Connectors (40 05 23 23-0037)		
40 05 23 23-0063 EA 1/4" x 1/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	44.70 8.74	14.64
40 05 23 23-0064 EA 3/8" x 3/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	55.40 9.56	15.99
40 05 23 23-0065 EA 1/2" x 1/2", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	71.32 10.84	18.02
40 05 23 23-0066 EA 5/8" x 5/8" Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	80.35 12.14	20.19
40 05 23 23-0067 EA 3/4" x 3/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	96.58 13.11	21.81
40 05 23 23-0068 EA 7/8" x 7/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	143.75 14.52	24.26
40 05 23 23-0069 EA 1" x 1", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	151.23 17.30	28.86
40 05 23 23-0070 Type 304 Valves (40 05 23 23-0011)		
40 05 23 23-0071 Gate Valves (40 05 23 23-0070)		
40 05 23 23-0072 EA 1/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	236.81 11.84	21.81
40 05 23 23-0073 EA 3/8" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	397.40 12.46	25.61
40 05 23 23-0074 EA 1/2" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	413.52 17.30	28.86
40 05 23 23-0075 EA 3/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	458.54 19.82	33.06
40 05 23 23-0076 EA 1" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	422.68 26.22	43.76
40 05 23 23-0077 Globe Valves (40 05 23 23-0070)		
40 05 23 23-0078 EA 1/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	240.04 11.84	21.81
40 05 23 23-0079 EA 3/8" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	159.59 12.46	25.61
40 05 23 23-0080 EA 1/2" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	285.61 17.30	28.86
40 05 23 23-0081 EA 3/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	318.06 19.82	33.06
40 05 23 23-0082 EA 1" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	463.39 26.22	43.76
40 05 23 23-0083 Check Valves (40 05 23 23-0070)		
40 05 23 23-0084 EA 1/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	335.07 11.84	21.81
40 05 23 23-0085 EA 3/8" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	337.15 12.46	25.61
40 05 23 23-0086 EA 1/2" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	222.89 17.30	28.86
40 05 23 23-0087 EA 3/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	233.72 19.82	33.06
40 05 23 23-0088 EA 1" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	259.83 26.22	43.76
40 05 23 23-0089 Plug Valves (40 05 23 23-0070)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0090 EA 1/2" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	518.04 17.30	28.86
40 05 23 23-0091 EA 3/4" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	567.39 19.82	33.06
40 05 23 23-0092 EA 1" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	643.27 26.22	43.76
40 05 23 23-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	891.96 29.67	49.45
40 05 23 23-0094 EA 2" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	1,161.95 40.64	67.74
40 05 23 23-0095 Type 316 Tubing (40 05 23 23-0011)		
40 05 23 23-0096 0.035" Wall (40 05 23 23-0095)		
40 05 23 23-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	9.98 2.18	3.65
40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	12.92 2.61	4.34
40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	14.39 3.05	5.15
40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	24.03 3.49	5.82
40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	27.26 3.93	6.50
40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	34.50 4.37	7.32
40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	36.36 5.24	8.80
40 05 23 23-0104 0.049" Wall (40 05 23 23-0095)		
40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	17.18 2.61	4.34
40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	19.09 3.05	5.15
40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	22.48 3.49	5.82
40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	29.30 4.37	7.32
40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	33.87 5.24	8.80
40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	43.07 6.11	10.16
40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	44.14 6.95	11.52
40 05 23 23-0112 0.065" Wall (40 05 23 23-0095)		
40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	20.09 3.05	5.15
40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	22.43 3.49	5.82
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	28.13 4.37	7.32
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	33.53 5.24	8.80
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	40.58 6.11	10.16
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	44.75 6.95	11.52
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	52.07 7.82	13.01
40 05 23 23-0120 Type 316 Tube Fittings (40 05 23 23-0011)		
40 05 23 23-0121 90 Degree Elbows (40 05 23 23-0120)		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	80.07 8.74	14.64
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	96.11 9.56	15.99
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	151.29 10.84	18.02
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	160.60 12.14	20.19
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	180.47 13.11	21.81
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	252.69 14.52	24.26
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	323.97 17.30	28.86

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0129 Union Tees (40 05 23 23-0120)				
40 05 23 23-0130	EA	1/4" Union Tee, Stainless Steel Type 316	128.42	21.81
		<i>For Work In Restricted Working Space, Add</i>	13.11	
40 05 23 23-0131	EA	3/8" Union Tee, Stainless Steel Type 316	158.29	24.26
		<i>For Work In Restricted Working Space, Add</i>	14.52	
40 05 23 23-0132	EA	1/2" Union Tee, Stainless Steel Type 316	222.78	27.09
		<i>For Work In Restricted Working Space, Add</i>	16.26	
40 05 23 23-0133	EA	5/8" Union Tee, Stainless Steel Type 316	237.92	30.76
		<i>For Work In Restricted Working Space, Add</i>	18.47	
40 05 23 23-0134	EA	3/4" Union Tee, Stainless Steel Type 316	310.80	33.06
		<i>For Work In Restricted Working Space, Add</i>	19.82	
40 05 23 23-0135	EA	7/8" Union Tee, Stainless Steel Type 316	511.18	36.58
		<i>For Work In Restricted Working Space, Add</i>	21.97	
40 05 23 23-0136	EA	1" Union Tee, Stainless Steel Type 316	612.83	43.76
		<i>For Work In Restricted Working Space, Add</i>	26.22	
40 05 23 23-0137 Unions (40 05 23 23-0120)				
40 05 23 23-0138	EA	1/4" Union, Stainless Steel Type 316	83.57	21.81
		<i>For Work In Restricted Working Space, Add</i>	13.11	
40 05 23 23-0139	EA	3/8" Union, Stainless Steel Type 316	106.53	24.26
		<i>For Work In Restricted Working Space, Add</i>	14.52	
40 05 23 23-0140	EA	1/2" Union, Stainless Steel Type 316	141.67	27.09
		<i>For Work In Restricted Working Space, Add</i>	16.26	
40 05 23 23-0141	EA	5/8" Union, Stainless Steel Type 316	171.76	30.76
		<i>For Work In Restricted Working Space, Add</i>	18.47	
40 05 23 23-0142	EA	3/4" Union, Stainless Steel Type 316	203.39	33.06
		<i>For Work In Restricted Working Space, Add</i>	19.82	
40 05 23 23-0143	EA	7/8" Union, Stainless Steel Type 316	306.88	36.58
		<i>For Work In Restricted Working Space, Add</i>	21.97	
40 05 23 23-0144	EA	1" Union, Stainless Steel Type 316	328.52	43.76
		<i>For Work In Restricted Working Space, Add</i>	26.22	
40 05 23 23-0145 Male Connectors (40 05 23 23-0120)				
40 05 23 23-0146	EA	1/4" x 1/4" Male Connector, Stainless Steel Type 316	55.71	14.64
		<i>For Work In Restricted Working Space, Add</i>	8.74	
40 05 23 23-0147	EA	3/8" x 3/8" Male Connector, Stainless Steel Type 316	72.02	15.99
		<i>For Work In Restricted Working Space, Add</i>	9.56	
40 05 23 23-0148	EA	1/2" x 1/2" Male Connector, Stainless Steel Type 316	96.20	18.02
		<i>For Work In Restricted Working Space, Add</i>	10.84	
40 05 23 23-0149	EA	5/8" x 5/8" Male Connector, Stainless Steel Type 316	108.55	20.19
		<i>For Work In Restricted Working Space, Add</i>	12.14	
40 05 23 23-0150	EA	3/4" x 3/4" Male Connector, Stainless Steel Type 316	133.96	21.81
		<i>For Work In Restricted Working Space, Add</i>	13.11	
40 05 23 23-0151	EA	7/8" x 7/8" Male Connector, Stainless Steel Type 316	211.17	24.26
		<i>For Work In Restricted Working Space, Add</i>	14.52	
40 05 23 23-0152	EA	1" x 1" Male Connector, Stainless Steel Type 316	217.38	28.86
		<i>For Work In Restricted Working Space, Add</i>	17.30	
40 05 23 23-0153 Type 316 Valves (40 05 23 23-0011)				
40 05 23 23-0154 Gate Valves (40 05 23 23-0153)				
40 05 23 23-0155	EA	1/4" Gate Valve, Stainless Steel Type 316	300.53	21.81
		<i>For Work In Restricted Working Space, Add</i>	11.84	
40 05 23 23-0156	EA	3/8" Gate Valve, Stainless Steel Type 316	512.30	25.61
		<i>For Work In Restricted Working Space, Add</i>	12.46	
40 05 23 23-0157	EA	1/2" Gate Valve, Stainless Steel Type 316	528.42	28.86
		<i>For Work In Restricted Working Space, Add</i>	17.30	
40 05 23 23-0158	EA	3/4" Gate Valve, Stainless Steel Type 316	585.26	33.06
		<i>For Work In Restricted Working Space, Add</i>	19.82	
40 05 23 23-0159	EA	1" Gate Valve, Stainless Steel Type 316	530.93	43.76
		<i>For Work In Restricted Working Space, Add</i>	26.22	
40 05 23 23-0160	EA	1-1/4" Gate Valve, Stainless Steel Type 316	728.21	45.38
		<i>For Work In Restricted Working Space, Add</i>	27.23	
40 05 23 23-0161	EA	1-1/2" Gate Valve, Stainless Steel Type 316	1,168.11	49.45
		<i>For Work In Restricted Working Space, Add</i>	29.67	
40 05 23 23-0162	EA	2" Gate Valve, Stainless Steel Type 316	1,390.03	67.74
		<i>For Work In Restricted Working Space, Add</i>	40.64	
40 05 23 23-0163	EA	2-1/2" Gate Valve, Stainless Steel Type 316	2,073.14	216.90
		<i>For Work In Restricted Working Space, Add</i>	130.10	
40 05 23 23-0164 Globe Valves (40 05 23 23-0153)				
40 05 23 23-0165	EA	1/4" Globe Valve, Stainless Steel Type 316	304.81	21.81
		<i>For Work In Restricted Working Space, Add</i>	11.84	
40 05 23 23-0166	EA	3/8" Globe Valve, Stainless Steel Type 316	197.72	25.61
		<i>For Work In Restricted Working Space, Add</i>	12.46	
40 05 23 23-0167	EA	1/2" Globe Valve, Stainless Steel Type 316	359.22	28.86
		<i>For Work In Restricted Working Space, Add</i>	17.30	
40 05 23 23-0168	EA	3/4" Globe Valve, Stainless Steel Type 316	399.42	33.06
		<i>For Work In Restricted Working Space, Add</i>	19.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0169 EA 1" Globe Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	584.78 26.22	43.76
40 05 23 23-0170 EA 1-1/4" Globe Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	729.60 27.03	45.12
40 05 23 23-0171 EA 1-1/2" Globe Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	1,210.88 29.67	49.45
40 05 23 23-0172 EA 2" Globe Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	1,432.80 40.64	67.74
40 05 23 23-0173 EA 2-1/2" Globe Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	1,802.27 130.10	216.90
40 05 23 23-0174 Check Valves (40 05 23 23-0153)		
40 05 23 23-0175 EA 1/4" Check Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	430.51 11.84	21.81
40 05 23 23-0176 EA 3/8" Check Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	432.59 12.46	25.61
40 05 23 23-0177 EA 1/2" Check Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	276.25 17.30	28.86
40 05 23 23-0178 EA 3/4" Check Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	287.84 19.82	33.06
40 05 23 23-0179 EA 1" Check Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	315.50 26.22	43.76
40 05 23 23-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	435.49 27.23	45.38
40 05 23 23-0181 EA 1-1/2" Check Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	968.52 29.67	49.45
40 05 23 23-0182 EA 2" Check Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	1,176.19 40.64	67.74
40 05 23 23-0183 EA 2-1/2" Check Valve, Stainless Steel Type 316 For Work In Restricted Working Space, Add	2,334.50 130.10	216.90
40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined (40 05 23 23-0153)		
40 05 23 23-0185 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined For Work In Restricted Working Space, Add	462.93 17.30	28.86
40 05 23 23-0186 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined For Work In Restricted Working Space, Add	540.75 19.82	33.06
40 05 23 23-0187 EA 1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined For Work In Restricted Working Space, Add	689.76 26.22	43.76
40 05 23 23-0188 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined For Work In Restricted Working Space, Add	1,098.20 29.67	49.45
40 05 23 23-0189 EA 2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined For Work In Restricted Working Space, Add	1,534.52 40.64	67.74
40 05 23 23-0190 Diaphragm Valves, Teflon Lined (40 05 23 23-0153)		
40 05 23 23-0191 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined For Work In Restricted Working Space, Add	612.82 17.30	28.86
40 05 23 23-0192 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined For Work In Restricted Working Space, Add	704.53 19.82	33.06
40 05 23 23-0193 EA 1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined For Work In Restricted Working Space, Add	853.54 26.22	43.76
40 05 23 23-0194 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined For Work In Restricted Working Space, Add	1,328.59 29.67	49.45
40 05 23 23-0195 EA 2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined For Work In Restricted Working Space, Add	1,809.32 40.64	67.74
40 05 23 23-0196 Strainers (40 05 23 23-0153)		
40 05 23 23-0197 EA 1/2" Strainer, Stainless Steel Type 316 For Work In Restricted Working Space, Add	614.27 17.30	28.86
40 05 23 23-0198 EA 3/4" Strainer, Stainless Steel Type 316 For Work In Restricted Working Space, Add	735.08 19.92	33.19
40 05 23 23-0199 EA 1" Strainer, Stainless Steel Type 316 For Work In Restricted Working Space, Add	961.81 26.42	44.03
40 05 23 23-0200 EA 1-1/4" Strainer, Stainless Steel Type 316 For Work In Restricted Working Space, Add	1,193.93 27.23	45.38
40 05 23 23-0201 EA 1-1/2" Strainer, Stainless Steel Type 316 For Work In Restricted Working Space, Add	1,498.30 29.67	49.45
40 05 23 23-0202 EA 2" Strainer, Stainless Steel Type 316 For Work In Restricted Working Space, Add	2,160.60 40.65	67.74
40 05 23 23-0203 EA 2-1/2" Strainer, Stainless Steel Type 316 For Work In Restricted Working Space, Add	2,969.14 54.06	90.10
40 05 23 23-0204 EA 3" Strainer, Stainless Steel Type 316 For Work In Restricted Working Space, Add	4,324.06 81.29	135.48
40 05 23 23-0205 EA 4" Strainer, Stainless Steel Type 316 For Work In Restricted Working Space, Add	5,536.51 130.05	216.76
40 05 23 23-0206 Plug Valves (40 05 23 23-0153)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0207 EA 1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	654.50 17.30	28.86
40 05 23 23-0208 EA 3/4" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	715.98 19.82	33.06
40 05 23 23-0209 EA 1" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	808.04 26.22	43.76
40 05 23 23-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,127.04 29.67	49.45
40 05 23 23-0211 EA 2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,466.21 40.64	67.74
40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place (40 05 23 23-0011)		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 23-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe.....	27.08	
40 05 23 23-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe.....	29.25	
40 05 23 23-0215 EA Cut And Prepare 1" Stainless Steel Pipe.....	32.91	
40 05 23 23-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe.....	34.53	
40 05 23 23-0217 EA Cut And Prepare 1-1/2" Stainless Steel Pipe.....	36.56	
40 05 23 23-0218 EA Cut And Prepare 2" Stainless Steel Pipe.....	39.26	
40 05 23 23-0219 EA Cut And Prepare 2-1/2" Stainless Steel Pipe.....	41.98	
40 05 23 23-0220 EA Cut And Prepare 3" Stainless Steel Pipe.....	46.03	
40 05 23 23-0221 EA Cut And Prepare 4" Stainless Steel Pipe.....	50.10	
40 05 23 23-0222 EA Cut And Prepare 6" Stainless Steel Pipe.....	54.16	
40 05 23 23-0223 EA Cut And Prepare 8" Stainless Steel Pipe.....	58.22	
40 05 23 23-0224 EA Cut And Prepare 10" Stainless Steel Pipe.....	63.65	
40 05 23 23-0225 EA Cut And Prepare 12" Stainless Steel Pipe.....	69.06	
40 05 23 23-0226 EA Cut And Prepare 14" Stainless Steel Pipe.....	74.47	
40 05 23 23-0227 EA Cut And Prepare 16" Stainless Steel Pipe.....	79.89	
40 05 23 23-0228 EA Cut And Prepare 18" Stainless Steel Pipe.....	83.96	
40 05 23 23-0229 EA Cut And Prepare 20" Stainless Steel Pipe.....	88.01	
40 05 23 23-0230 EA Cut And Prepare 24" Stainless Steel Pipe.....	93.43	
40 05 23 23-0231 Stainless Steel Pipe And Fittings (40 05 23 23)		
40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 Lb. Threaded Fittings		
(40 05 23 23-0231)		
40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0232)		
40 05 23 23-0234 LF 1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	17.82 3.49	5.82
40 05 23 23-0235 LF 3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	22.01 4.37	7.32
40 05 23 23-0236 LF 1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	26.93 5.24	8.80
40 05 23 23-0237 LF 1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	32.18 6.11	10.16
40 05 23 23-0238 LF 1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	37.13 6.95	11.52
40 05 23 23-0239 LF 2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	47.30 8.74	14.64
40 05 23 23-0240 LF 2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	62.79 10.42	17.34
40 05 23 23-0241 LF 3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	78.94 13.11	21.81
40 05 23 23-0242 LF 4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	106.43 17.30	28.86
40 05 23 23-0243 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0244 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	47.88 13.11	21.81
40 05 23 23-0245 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	63.60 17.30	28.86
40 05 23 23-0246 EA 1", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	81.91 21.97	36.58
40 05 23 23-0247 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	115.17 30.11	50.13
40 05 23 23-0248 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	137.53 35.34	58.94
40 05 23 23-0249 EA 2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	167.65 42.78	71.26
40 05 23 23-0250 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	282.84 67.74	112.86
40 05 23 23-0251 EA 3", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	364.01 87.41	145.64
40 05 23 23-0252 EA 4", 150 Lb., Type 304 Stainless Steel Threaded 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	503.07 108.38	180.60
40 05 23 23-0253 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)		



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0254 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	48.84 13.11	21.81
40 05 23 23-0255 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	65.15 17.30	28.86
40 05 23 23-0256 EA 1", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	82.39 21.97	36.58
40 05 23 23-0257 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	114.98 30.11	50.13
40 05 23 23-0258 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	135.24 35.34	58.94
40 05 23 23-0259 EA 2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	167.11 42.78	71.26
40 05 23 23-0260 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	293.23 67.74	112.86
40 05 23 23-0261 EA 3", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	384.28 87.41	145.64
40 05 23 23-0262 EA 4", 150 Lb., Type 304 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	526.67 108.38	180.60
40 05 23 23-0263 150 Lb., Type 304 Stainless Steel Threaded Tees (40 05 23 23-0232)		
40 05 23 23-0264 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	71.74 19.82	33.06
40 05 23 23-0265 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	96.37 26.22	43.76
40 05 23 23-0266 EA 1", 150 Lb., Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	119.82 32.52	54.19
40 05 23 23-0267 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	173.25 45.16	75.33
40 05 23 23-0268 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	197.59 50.80	84.68
40 05 23 23-0269 EA 2", 150 Lb., Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	262.09 67.74	112.86
40 05 23 23-0270 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	404.26 97.94	163.25
40 05 23 23-0271 EA 3", 150 Lb., Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	549.16 131.11	218.53
40 05 23 23-0272 EA 4", 150 Lb., Type 304 Stainless Steel Threaded Tee <i>For Work In Restricted Working Space, Add</i>	744.43 162.57	270.96
40 05 23 23-0273 150 Lb., Type 304 Stainless Steel Threaded Reducers (40 05 23 23-0232)		
40 05 23 23-0274 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	62.88 17.30	28.86
40 05 23 23-0275 EA 1", 150 Lb., Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	80.39 21.97	36.58
40 05 23 23-0276 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	110.82 30.11	50.13
40 05 23 23-0277 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	132.86 35.34	58.94
40 05 23 23-0278 EA 2", 150 Lb., Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	167.75 42.78	71.26
40 05 23 23-0279 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	279.77 67.74	112.86
40 05 23 23-0280 EA 3", 150 Lb., Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	368.20 87.41	145.64
40 05 23 23-0281 EA 4", 150 Lb., Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	488.57 108.38	180.60
40 05 23 23-0282 150 Lb., Type 304 Stainless Steel Threaded Caps (40 05 23 23-0232)		
40 05 23 23-0283 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	24.63 6.56	10.97
40 05 23 23-0284 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	32.60 8.74	14.64
40 05 23 23-0285 EA 1", 150 Lb., Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	41.34 10.84	18.02
40 05 23 23-0286 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	60.55 15.34	25.61
40 05 23 23-0287 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	70.01 17.30	28.86
40 05 23 23-0288 EA 2", 150 Lb., Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	88.99 21.97	36.58
40 05 23 23-0289 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	136.83 32.52	54.19
40 05 23 23-0290 EA 3", 150 Lb., Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	181.91 42.78	71.26
40 05 23 23-0291 EA 4", 150 Lb., Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	247.16 54.19	90.36
40 05 23 23-0292 150 Lb., Type 304 Stainless Steel Threaded Unions (40 05 23 23-0232)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0293 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	77.78 19.82	33.06
40 05 23 23-0294 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	102.22 26.22	43.76
40 05 23 23-0295 EA 1", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	130.77 32.52	54.19
40 05 23 23-0296 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	189.36 45.16	75.33
40 05 23 23-0297 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	213.21 50.80	84.68
40 05 23 23-0298 EA 2", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	278.35 67.74	112.86
40 05 23 23-0299 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	481.03 101.61	169.34
40 05 23 23-0300 EA 3", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	616.28 131.12	218.53
40 05 23 23-0301 EA 4", 150 Lb., Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	652.26 108.40	180.66
40 05 23 23-0302 150 Lb., Type 304 Stainless Steel Threaded Couplings (40 05 23 23-0232)		
40 05 23 23-0303 EA 1/2", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	47.48 13.11	21.81
40 05 23 23-0304 EA 3/4", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	63.07 17.30	28.86
40 05 23 23-0305 EA 1", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	81.48 21.97	36.58
40 05 23 23-0306 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	113.46 30.11	50.13
40 05 23 23-0307 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	133.37 35.34	58.94
40 05 23 23-0308 EA 2", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	164.55 42.78	71.26
40 05 23 23-0309 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	273.97 67.74	112.86
40 05 23 23-0310 EA 3", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	353.62 87.41	145.64
40 05 23 23-0311 EA 4", 150 Lb., Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	458.04 108.38	180.60
40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 Lb. Threaded Fittings (40 05 23 23-0231)		
40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0312)		
40 05 23 23-0314 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	21.09 3.49	5.82
40 05 23 23-0315 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	25.24 4.37	7.32
40 05 23 23-0316 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	31.57 5.24	8.80
40 05 23 23-0317 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	38.25 6.11	10.16
40 05 23 23-0318 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	44.31 6.95	11.52
40 05 23 23-0319 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	56.92 8.74	14.64
40 05 23 23-0320 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	76.23 10.42	17.34
40 05 23 23-0321 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	98.99 13.11	21.81
40 05 23 23-0322 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	132.52 17.30	28.86
40 05 23 23-0323 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0312)		
40 05 23 23-0324 EA 1/2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	49.13 13.11	21.81
40 05 23 23-0325 EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	65.47 17.30	28.86
40 05 23 23-0326 EA 1", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	83.06 21.97	36.58
40 05 23 23-0327 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	117.23 30.11	50.13
40 05 23 23-0328 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	140.28 35.34	58.94
40 05 23 23-0329 EA 2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	171.04 42.78	71.26
40 05 23 23-0330 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	288.26 67.74	112.86
40 05 23 23-0331 EA 3", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	377.28 87.41	145.64
40 05 23 23-0332 EA 4", 150 Lb., Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	519.20 108.38	180.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0333 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0312)		
40 05 23 23-0334 EA 1/2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	50.15	21.81
For Work In Restricted Working Space, Add	13.11	
40 05 23 23-0335 EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	66.11	28.86
For Work In Restricted Working Space, Add	17.30	
40 05 23 23-0336 EA 1", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	83.80	36.58
For Work In Restricted Working Space, Add	21.97	
40 05 23 23-0337 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	117.01	50.13
For Work In Restricted Working Space, Add	30.11	
40 05 23 23-0338 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	137.61	58.94
For Work In Restricted Working Space, Add	35.34	
40 05 23 23-0339 EA 2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	170.29	71.26
For Work In Restricted Working Space, Add	42.78	
40 05 23 23-0340 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	298.33	112.86
For Work In Restricted Working Space, Add	67.74	
40 05 23 23-0341 EA 3", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	396.03	145.64
For Work In Restricted Working Space, Add	87.41	
40 05 23 23-0342 EA 4", 150 Lb., Type 316 Stainless Steel Threaded 45 Degree Elbow	558.37	180.60
For Work In Restricted Working Space, Add	108.38	
40 05 23 23-0343 150 Lb., Type 316 Stainless Steel Threaded Tees (40 05 23 23-0312)		
40 05 23 23-0344 EA 1/2", 150 Lb., Type 316 Stainless Steel Threaded Tee	73.08	33.06
For Work In Restricted Working Space, Add	19.82	
40 05 23 23-0345 EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded Tee	97.73	43.76
For Work In Restricted Working Space, Add	26.22	
40 05 23 23-0346 EA 1", 150 Lb., Type 316 Stainless Steel Threaded Tee	121.34	54.19
For Work In Restricted Working Space, Add	32.52	
40 05 23 23-0347 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Tee	176.35	75.33
For Work In Restricted Working Space, Add	45.16	
40 05 23 23-0348 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Tee	200.66	84.68
For Work In Restricted Working Space, Add	50.80	
40 05 23 23-0349 EA 2", 150 Lb., Type 316 Stainless Steel Threaded Tee	266.12	112.86
For Work In Restricted Working Space, Add	67.74	
40 05 23 23-0350 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Tee	420.74	163.25
For Work In Restricted Working Space, Add	97.94	
40 05 23 23-0351 EA 3", 150 Lb., Type 316 Stainless Steel Threaded Tee	571.62	218.53
For Work In Restricted Working Space, Add	131.11	
40 05 23 23-0352 EA 4", 150 Lb., Type 316 Stainless Steel Threaded Tee	761.17	270.96
For Work In Restricted Working Space, Add	162.57	
40 05 23 23-0353 150 Lb., Type 316 Stainless Steel Threaded Reducers (40 05 23 23-0312)		
40 05 23 23-0354 EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded Reducer	64.03	28.86
For Work In Restricted Working Space, Add	17.30	
40 05 23 23-0355 EA 1", 150 Lb., Type 316 Stainless Steel Threaded Reducer	83.78	36.58
For Work In Restricted Working Space, Add	21.97	
40 05 23 23-0356 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Reducer	111.46	50.13
For Work In Restricted Working Space, Add	30.11	
40 05 23 23-0357 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Reducer	136.20	58.94
For Work In Restricted Working Space, Add	35.34	
40 05 23 23-0358 EA 2", 150 Lb., Type 316 Stainless Steel Threaded Reducer	173.60	71.26
For Work In Restricted Working Space, Add	42.78	
40 05 23 23-0359 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Reducer	293.07	112.86
For Work In Restricted Working Space, Add	67.74	
40 05 23 23-0360 EA 3", 150 Lb., Type 316 Stainless Steel Threaded Reducer	382.89	145.64
For Work In Restricted Working Space, Add	87.41	
40 05 23 23-0361 EA 4", 150 Lb., Type 316 Stainless Steel Threaded Reducer	513.05	180.60
For Work In Restricted Working Space, Add	108.38	
40 05 23 23-0362 150 Lb., Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)		
40 05 23 23-0363 EA 1/2", 150 Lb., Type 316 Stainless Steel Threaded Cap	25.37	10.97
For Work In Restricted Working Space, Add	6.56	
40 05 23 23-0364 EA 3/4", 150 Lb., Type 316 Stainless Steel Threaded Cap	33.16	14.64
For Work In Restricted Working Space, Add	8.74	
40 05 23 23-0365 EA 1", 150 Lb., Type 316 Stainless Steel Threaded Cap	42.33	18.02
For Work In Restricted Working Space, Add	10.84	
40 05 23 23-0366 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Cap	63.30	25.61
For Work In Restricted Working Space, Add	15.34	
40 05 23 23-0367 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Cap	73.27	28.86
For Work In Restricted Working Space, Add	17.30	
40 05 23 23-0368 EA 2", 150 Lb., Type 316 Stainless Steel Threaded Cap	93.23	36.58
For Work In Restricted Working Space, Add	21.97	
40 05 23 23-0369 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Cap	143.85	54.19
For Work In Restricted Working Space, Add	32.52	
40 05 23 23-0370 EA 3", 150 Lb., Type 316 Stainless Steel Threaded Cap	189.04	71.26
For Work In Restricted Working Space, Add	42.78	
40 05 23 23-0371 EA 4", 150 Lb., Type 316 Stainless Steel Threaded Cap	261.31	90.36
For Work In Restricted Working Space, Add	54.19	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0372		150 Lb., Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)		
40 05 23 23-0373	EA	1/2", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	79.38 19.82	33.06
40 05 23 23-0374	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	108.28 26.22	43.76
40 05 23 23-0375	EA	1", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	133.84 32.52	54.19
40 05 23 23-0376	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	194.56 45.16	75.33
40 05 23 23-0377	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	219.30 50.80	84.68
40 05 23 23-0378	EA	2", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	285.40 67.74	112.86
40 05 23 23-0379	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	491.85 101.61	169.34
40 05 23 23-0380	EA	3", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	649.98 131.12	218.53
40 05 23 23-0381	EA	4", 150 Lb., Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	724.09 108.40	180.66
40 05 23 23-0382		150 Lb., Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)		
40 05 23 23-0383	EA	1/2", 150 Lb., Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	50.01 13.11	21.81
40 05 23 23-0384	EA	3/4", 150 Lb., Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	64.25 17.30	28.86
40 05 23 23-0385	EA	1", 150 Lb., Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	82.60 21.97	36.58
40 05 23 23-0386	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	115.25 30.11	50.13
40 05 23 23-0387	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	135.50 35.34	58.94
40 05 23 23-0388	EA	2", 150 Lb., Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	167.51 42.78	71.26
40 05 23 23-0389	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	284.33 67.74	112.86
40 05 23 23-0390	EA	3", 150 Lb., Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	366.97 87.41	145.64
40 05 23 23-0391	EA	4", 150 Lb., Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	478.07 108.38	180.60
40 05 23 23-0392		Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0393		Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 23-0392)		
40 05 23 23-0394	LF	1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	19.40 3.42	5.69
40 05 23 23-0395	LF	3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	23.19 4.18	6.95
40 05 23 23-0396	LF	1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	30.13 4.90	8.22
40 05 23 23-0397	LF	1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	36.92 6.12	10.25
40 05 23 23-0398	LF	1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	41.16 6.90	11.51
40 05 23 23-0399	LF	2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	50.92 8.55	14.29
40 05 23 23-0400	LF	2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	60.46 9.77	16.32
40 05 23 23-0401	LF	3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	70.86 11.00	18.34
40 05 23 23-0402	LF	4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	88.24 13.01	21.76
40 05 23 23-0403	LF	6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	126.99 17.09	28.59
40 05 23 23-0404	LF	8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	213.83 31.98	49.77
40 05 23 23-0405	LF	10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	268.25 35.18	54.73
40 05 23 23-0406	LF	12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	318.48 39.09	60.85
40 05 23 23-0407	LF	14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	388.29 43.98	68.41
40 05 23 23-0408	LF	16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	429.11 50.26	78.19
40 05 23 23-0409	LF	18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	482.78 58.64	91.21
40 05 23 23-0410	LF	20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	660.82 70.37	109.46
40 05 23 23-0411	LF	24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	858.53 87.95	136.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow (40 05 23 23-0392)		
40 05 23 23-0413 EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	150.67	64.89
For Work In Restricted Working Space, Add	43.25	
40 05 23 23-0414 EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	159.54	68.87
For Work In Restricted Working Space, Add	45.92	
40 05 23 23-0415 EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	175.84	75.69
For Work In Restricted Working Space, Add	50.46	
40 05 23 23-0416 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	191.92	82.50
For Work In Restricted Working Space, Add	54.99	
40 05 23 23-0417 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	211.99	91.10
For Work In Restricted Working Space, Add	60.73	
40 05 23 23-0418 EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	237.06	101.35
For Work In Restricted Working Space, Add	67.57	
40 05 23 23-0419 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	308.48	129.71
For Work In Restricted Working Space, Add	86.47	
40 05 23 23-0420 EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	361.89	152.02
For Work In Restricted Working Space, Add	101.35	
40 05 23 23-0421 EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	443.70	181.96
For Work In Restricted Working Space, Add	121.31	
40 05 23 23-0422 EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	610.54	227.31
For Work In Restricted Working Space, Add	151.54	
40 05 23 23-0423 EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	1,031.09	376.95
For Work In Restricted Working Space, Add	251.30	
40 05 23 23-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	1,531.81	502.59
For Work In Restricted Working Space, Add	335.06	
40 05 23 23-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	2,314.61	753.89
For Work In Restricted Working Space, Add	502.59	
40 05 23 23-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	2,739.19	879.54
For Work In Restricted Working Space, Add	586.36	
40 05 23 23-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	3,223.18	1,003.27
For Work In Restricted Working Space, Add	668.85	
40 05 23 23-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	4,075.84	1,256.49
For Work In Restricted Working Space, Add	837.66	
40 05 23 23-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	5,681.04	1,759.08
For Work In Restricted Working Space, Add	1,172.72	
40 05 23 23-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	8,157.75	2,512.97
For Work In Restricted Working Space, Add	1,675.31	
40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 23-0392)		
40 05 23 23-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	152.58	64.89
For Work In Restricted Working Space, Add	43.25	
40 05 23 23-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	161.45	68.87
For Work In Restricted Working Space, Add	45.92	
40 05 23 23-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	178.13	75.69
For Work In Restricted Working Space, Add	50.46	
40 05 23 23-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	194.98	82.50
For Work In Restricted Working Space, Add	54.99	
40 05 23 23-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	212.37	91.10
For Work In Restricted Working Space, Add	60.73	
40 05 23 23-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	237.06	101.35
For Work In Restricted Working Space, Add	67.57	
40 05 23 23-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	306.57	129.71
For Work In Restricted Working Space, Add	86.47	
40 05 23 23-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	358.45	152.02
For Work In Restricted Working Space, Add	101.35	
40 05 23 23-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	437.20	181.96
For Work In Restricted Working Space, Add	121.31	
40 05 23 23-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	576.55	227.31
For Work In Restricted Working Space, Add	151.54	
40 05 23 23-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	965.53	376.95
For Work In Restricted Working Space, Add	251.30	
40 05 23 23-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	1,415.09	502.59
For Work In Restricted Working Space, Add	335.06	
40 05 23 23-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,129.82	753.89
For Work In Restricted Working Space, Add	502.59	
40 05 23 23-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,512.38	879.54
For Work In Restricted Working Space, Add	586.36	
40 05 23 23-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,943.25	1,003.27
For Work In Restricted Working Space, Add	668.85	
40 05 23 23-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	3,708.23	1,256.49
For Work In Restricted Working Space, Add	837.66	
40 05 23 23-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	5,185.01	1,759.08
For Work In Restricted Working Space, Add	1,172.72	
40 05 23 23-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	7,454.10	2,512.97
For Work In Restricted Working Space, Add	1,675.31	
40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee (40 05 23 23-0392)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	204.26 54.98	82.47
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	245.97 67.49	101.23
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	273.76 75.83	113.75
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	311.57 86.47	129.71
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	330.41 92.82	139.23
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	360.00 101.24	151.86
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	467.95 121.31	181.96
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	548.00 152.03	228.04
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	630.60 170.62	255.93
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	922.90 227.49	341.23
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,505.00 335.06	502.59
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,314.61 502.59	753.89
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,982.16 628.24	942.36
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,674.42 754.97	1,132.46
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,448.81 920.98	1,381.48
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,660.67 1,172.72	1,759.08
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,578.31 1,543.05	2,314.58
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	11,350.27 2,345.44	3,518.15
40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0392)		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	190.54 45.93	68.90
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	225.04 56.28	84.43
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	279.14 63.24	94.87
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	287.29 72.10	108.15
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	300.63 77.47	116.20
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	396.37 84.43	126.64
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	466.42 101.20	151.80
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	574.37 126.48	189.73
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	763.58 144.52	216.78
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,443.75 209.41	314.12
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,401.97 279.22	418.83
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,425.39 418.83	628.23
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,157.53 503.17	754.76
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,152.21 613.77	920.66
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,656.81 781.81	1,172.72
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	9,495.12 1,028.70	1,543.05
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	14,868.88 1,562.24	2,343.35
40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	152.21 41.77	62.66
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	167.77 45.52	68.27
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	185.98 50.46	75.69
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	197.44 54.99	82.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	215.04	91.10
For Work In Restricted Working Space, Add	60.73	
40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	290.40	113.84
For Work In Restricted Working Space, Add	75.89	
40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer	328.10	129.60
For Work In Restricted Working Space, Add	86.40	
40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer	383.37	151.86
For Work In Restricted Working Space, Add	101.24	
40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer	495.33	193.34
For Work In Restricted Working Space, Add	128.89	
40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer	775.63	301.56
For Work In Restricted Working Space, Add	201.04	
40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer	988.20	376.95
For Work In Restricted Working Space, Add	251.30	
40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,330.11	502.59
For Work In Restricted Working Space, Add	335.06	
40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,909.40	659.66
For Work In Restricted Working Space, Add	439.77	
40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer	2,237.30	751.73
For Work In Restricted Working Space, Add	501.16	
40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer	2,750.36	942.36
For Work In Restricted Working Space, Add	628.24	
40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer	3,876.28	1,256.49
For Work In Restricted Working Space, Add	837.66	
40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer	5,572.69	1,884.72
For Work In Restricted Working Space, Add	1,256.49	
40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	188.11	62.66
For Work In Restricted Working Space, Add	41.77	
40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	194.12	68.27
For Work In Restricted Working Space, Add	45.52	
40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	204.03	75.69
For Work In Restricted Working Space, Add	50.46	
40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	230.28	82.50
For Work In Restricted Working Space, Add	54.99	
40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	238.72	91.10
For Work In Restricted Working Space, Add	60.73	
40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	316.37	113.84
For Work In Restricted Working Space, Add	75.89	
40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	353.69	129.60
For Work In Restricted Working Space, Add	86.40	
40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	403.16	151.86
For Work In Restricted Working Space, Add	101.24	
40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	566.74	193.34
For Work In Restricted Working Space, Add	128.89	
40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	928.73	301.56
For Work In Restricted Working Space, Add	201.04	
40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,286.82	376.95
For Work In Restricted Working Space, Add	251.30	
40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,606.04	502.59
For Work In Restricted Working Space, Add	335.06	
40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,545.93	659.66
For Work In Restricted Working Space, Add	439.77	
40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,966.67	751.73
For Work In Restricted Working Space, Add	501.16	
40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	3,640.52	942.36
For Work In Restricted Working Space, Add	628.24	
40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	5,302.73	1,256.49
For Work In Restricted Working Space, Add	837.66	
40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	7,463.18	1,884.72
For Work In Restricted Working Space, Add	1,256.49	
40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)		
40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap	83.93	32.45
For Work In Restricted Working Space, Add	21.63	
40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap	92.57	34.42
For Work In Restricted Working Space, Add	22.96	
40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap	101.67	37.84
For Work In Restricted Working Space, Add	25.23	
40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap	112.10	41.24
For Work In Restricted Working Space, Add	27.50	
40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap	119.93	45.54
For Work In Restricted Working Space, Add	30.37	
40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap	129.03	50.67
For Work In Restricted Working Space, Add	33.78	
40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap	167.81	64.87
For Work In Restricted Working Space, Add	43.24	
40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap	189.16	76.02
For Work In Restricted Working Space, Add	50.68	
40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap	228.15	90.99
For Work In Restricted Working Space, Add	60.65	
40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap	295.36	113.84
For Work In Restricted Working Space, Add	75.89	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	495.14 125.65	188.47
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	659.26 167.53	251.30
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	969.03 251.30	376.94
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,138.28 293.18	439.76
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,322.42 334.43	501.63
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,671.94 418.83	628.23
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,305.25 586.36	879.54
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	3,410.17 837.66	1,256.48
40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)		
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	21.37 3.42	5.69
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	25.98 4.18	6.95
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	31.64 4.90	8.22
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	39.55 6.12	10.12
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	45.43 6.90	11.39
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	57.95 8.55	14.55
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	71.18 9.77	16.44
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	70.67 11.00	18.34
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	112.14 13.01	21.50
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	171.84 17.09	28.45
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	303.54 31.98	49.51
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	379.84 35.18	54.73
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	469.46 39.09	60.59
40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0541)		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	152.20 43.25	64.89
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	161.07 45.92	68.87
40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	176.98 50.46	75.69
40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	192.75 54.99	82.50
40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	212.75 60.73	91.10
40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	239.73 67.57	101.35
40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	318.41 86.47	129.71
40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	376.40 101.35	152.02
40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	468.14 121.31	181.96
40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	766.73 151.54	227.31
40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,243.93 251.30	376.95
40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,963.64 335.06	502.59
40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,874.72 502.59	753.89
40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,418.68 586.36	879.54
40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,096.08 668.85	1,003.27
40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,288.71 837.66	1,256.49



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0573 EA 20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	7,178.06 1,172.72	1,759.08
40 05 23 23-0574 EA 24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... For Work In Restricted Working Space, Add	10,293.50 1,675.31	2,512.97
40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0541)		
40 05 23 23-0576 EA 1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	154.87 43.25	64.89
40 05 23 23-0577 EA 3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	163.74 45.92	68.87
40 05 23 23-0578 EA 1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	178.89 50.46	75.69
40 05 23 23-0579 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	194.70 54.99	82.50
40 05 23 23-0580 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	214.66 60.73	91.10
40 05 23 23-0581 EA 2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	240.14 67.57	101.35
40 05 23 23-0582 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	318.41 86.47	129.71
40 05 23 23-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	365.71 101.35	152.02
40 05 23 23-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	473.87 121.31	181.96
40 05 23 23-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	636.50 151.54	227.31
40 05 23 23-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,107.40 251.30	376.95
40 05 23 23-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,622.56 335.06	502.59
40 05 23 23-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,371.54 502.59	753.89
40 05 23 23-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,682.84 586.36	879.54
40 05 23 23-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	3,219.97 668.85	1,003.27
40 05 23 23-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	4,066.45 837.66	1,256.49
40 05 23 23-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	5,528.79 1,172.72	1,759.08
40 05 23 23-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	8,037.83 1,675.31	2,512.97
40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0541)		
40 05 23 23-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	205.79 54.98	82.47
40 05 23 23-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	247.50 67.49	101.23
40 05 23 23-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	275.29 75.83	113.75
40 05 23 23-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	315.46 86.47	129.71
40 05 23 23-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	331.94 92.82	139.23
40 05 23 23-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	361.91 101.24	151.86
40 05 23 23-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	473.10 121.31	181.96
40 05 23 23-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	556.02 152.03	228.04
40 05 23 23-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	639.38 170.62	255.93
40 05 23 23-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	983.62 227.49	341.23
40 05 23 23-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	1,685.24 335.06	502.59
40 05 23 23-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	2,867.73 502.59	753.89
40 05 23 23-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	3,565.37 628.24	942.36
40 05 23 23-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	4,849.61 754.97	1,132.46
40 05 23 23-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	6,164.51 920.98	1,381.48
40 05 23 23-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	7,990.17 1,172.72	1,759.08
40 05 23 23-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	10,310.77 1,543.05	2,314.58
40 05 23 23-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	15,788.11 2,345.44	3,518.15

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0613		Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0541)		
40 05 23 23-0614	EA	3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	195.50	68.90
		<i>For Work In Restricted Working Space, Add</i>	45.93	
40 05 23 23-0615	EA	1", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	230.00	84.43
		<i>For Work In Restricted Working Space, Add</i>	56.28	
40 05 23 23-0616	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	303.02	94.87
		<i>For Work In Restricted Working Space, Add</i>	63.24	
40 05 23 23-0617	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	294.55	108.15
		<i>For Work In Restricted Working Space, Add</i>	72.10	
40 05 23 23-0618	EA	2", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	300.63	116.20
		<i>For Work In Restricted Working Space, Add</i>	77.47	
40 05 23 23-0619	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	371.97	126.64
		<i>For Work In Restricted Working Space, Add</i>	84.43	
40 05 23 23-0620	EA	3", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	412.57	151.80
		<i>For Work In Restricted Working Space, Add</i>	101.20	
40 05 23 23-0621	EA	4", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	546.11	189.73
		<i>For Work In Restricted Working Space, Add</i>	126.48	
40 05 23 23-0622	EA	6", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	768.17	216.78
		<i>For Work In Restricted Working Space, Add</i>	144.52	
40 05 23 23-0623	EA	8", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	1,281.66	314.12
		<i>For Work In Restricted Working Space, Add</i>	209.41	
40 05 23 23-0624	EA	10", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	2,452.69	418.83
		<i>For Work In Restricted Working Space, Add</i>	279.22	
40 05 23 23-0625	EA	12", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	3,526.85	628.23
		<i>For Work In Restricted Working Space, Add</i>	418.83	
40 05 23 23-0626	EA	14", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	4,015.17	754.76
		<i>For Work In Restricted Working Space, Add</i>	503.17	
40 05 23 23-0627	EA	16", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	4,973.91	920.66
		<i>For Work In Restricted Working Space, Add</i>	613.77	
40 05 23 23-0628	EA	18", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	6,424.30	1,172.72
		<i>For Work In Restricted Working Space, Add</i>	781.81	
40 05 23 23-0629	EA	20", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	9,146.93	1,543.05
		<i>For Work In Restricted Working Space, Add</i>	1,028.70	
40 05 23 23-0630	EA	24", Type 304, Schedule 40 Stainless Steel Reducing Tee.....	14,314.33	2,343.35
		<i>For Work In Restricted Working Space, Add</i>	1,562.24	
40 05 23 23-0631		Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0541)		
40 05 23 23-0632	EA	3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	156.03	62.66
		<i>For Work In Restricted Working Space, Add</i>	41.77	
40 05 23 23-0633	EA	1", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	171.59	68.27
		<i>For Work In Restricted Working Space, Add</i>	45.52	
40 05 23 23-0634	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	186.25	75.69
		<i>For Work In Restricted Working Space, Add</i>	50.46	
40 05 23 23-0635	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	201.26	82.50
		<i>For Work In Restricted Working Space, Add</i>	54.99	
40 05 23 23-0636	EA	2", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	217.33	91.10
		<i>For Work In Restricted Working Space, Add</i>	60.73	
40 05 23 23-0637	EA	2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	290.40	113.84
		<i>For Work In Restricted Working Space, Add</i>	75.89	
40 05 23 23-0638	EA	3", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	314.35	129.60
		<i>For Work In Restricted Working Space, Add</i>	86.40	
40 05 23 23-0639	EA	4", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	363.82	151.86
		<i>For Work In Restricted Working Space, Add</i>	101.24	
40 05 23 23-0640	EA	6", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	498.38	193.34
		<i>For Work In Restricted Working Space, Add</i>	128.89	
40 05 23 23-0641	EA	8", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	840.48	301.56
		<i>For Work In Restricted Working Space, Add</i>	201.04	
40 05 23 23-0642	EA	10", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	1,099.57	376.95
		<i>For Work In Restricted Working Space, Add</i>	251.30	
40 05 23 23-0643	EA	12", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	1,429.50	502.59
		<i>For Work In Restricted Working Space, Add</i>	335.06	
40 05 23 23-0644	EA	14", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	2,132.46	659.66
		<i>For Work In Restricted Working Space, Add</i>	439.77	
40 05 23 23-0645	EA	16", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	2,517.71	751.73
		<i>For Work In Restricted Working Space, Add</i>	501.16	
40 05 23 23-0646	EA	18", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	3,318.21	942.36
		<i>For Work In Restricted Working Space, Add</i>	628.24	
40 05 23 23-0647	EA	20", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	4,546.08	1,256.49
		<i>For Work In Restricted Working Space, Add</i>	837.66	
40 05 23 23-0648	EA	24", Type 304, Schedule 40 Stainless Steel Concentric Reducer.....	6,266.34	1,884.72
		<i>For Work In Restricted Working Space, Add</i>	1,256.49	
40 05 23 23-0649	EA	3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....	189.67	62.66
		<i>For Work In Restricted Working Space, Add</i>	41.77	
40 05 23 23-0650	EA	1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....	202.14	68.27
		<i>For Work In Restricted Working Space, Add</i>	45.52	
40 05 23 23-0651	EA	1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....	231.53	75.69
		<i>For Work In Restricted Working Space, Add</i>	50.46	
40 05 23 23-0652	EA	1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....	244.41	82.50
		<i>For Work In Restricted Working Space, Add</i>	54.99	
40 05 23 23-0653	EA	2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer.....	260.49	91.10
		<i>For Work In Restricted Working Space, Add</i>	60.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	316.37 75.89	113.84
40 05 23 23-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	401.04 86.40	129.60
40 05 23 23-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	435.24 101.24	151.86
40 05 23 23-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	598.44 128.89	193.34
40 05 23 23-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	932.04 201.04	301.56
40 05 23 23-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	1,283.94 251.30	376.95
40 05 23 23-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	1,756.17 335.06	502.59
40 05 23 23-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	2,933.16 439.77	659.66
40 05 23 23-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	3,325.83 501.16	751.73
40 05 23 23-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	4,363.67 628.24	942.36
40 05 23 23-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	5,659.61 837.66	1,256.49
40 05 23 23-0665 EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	9,045.01 1,256.49	1,884.72
40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)		
40 05 23 23-0667 EA 1/2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	85.07 21.63	32.45
40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	91.42 22.96	34.42
40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	102.81 25.23	37.84
40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	117.20 27.50	41.24
40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	124.90 30.37	45.54
40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	128.65 33.78	50.67
40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	165.24 43.24	64.87
40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	190.69 50.68	76.02
40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	232.73 60.65	90.99
40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	323.62 75.89	113.84
40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	540.51 125.65	188.47
40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	723.42 167.53	251.30
40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,091.31 251.30	376.94
40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,250.29 293.18	439.76
40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,476.51 334.43	501.63
40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,854.56 418.83	628.23
40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	2,548.79 586.36	879.54
40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	3,817.36 837.66	1,256.48
40 05 23 23-0685 Type 304, Schedule 40 Stainless Steel Butt Half Coupling (40 05 23 23-0541)		
Note: Threaded Female x Butt Weld Straight Adapter		
40 05 23 23-0686 EA 1/2", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	137.22 38.93	64.89
40 05 23 23-0687 EA 3/4", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	146.61 41.32	68.93
40 05 23 23-0688 EA 1", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	166.95 45.42	75.64
40 05 23 23-0689 EA 1-1/4", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	184.67 49.48	82.47
40 05 23 23-0690 EA 1-1/2", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	207.46 54.64	91.07
40 05 23 23-0691 EA 2", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	237.30 60.83	101.32
40 05 23 23-0692 EA 2-1/2", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	330.71 77.83	129.77
40 05 23 23-0693 EA 3", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	423.20 91.22	152.03

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0694 EA 4", Type 304, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling <i>For Work In Restricted Working Space, Add</i>	511.03 109.17	182.01
40 05 23 23-0695 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0696 Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0695)		
40 05 23 23-0697 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	21.91 3.42	5.69
40 05 23 23-0698 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	26.09 4.18	6.95
40 05 23 23-0699 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	34.45 4.90	8.22
40 05 23 23-0700 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	42.08 6.12	10.25
40 05 23 23-0701 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	46.83 6.90	11.51
40 05 23 23-0702 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	57.92 8.55	14.29
40 05 23 23-0703 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	69.17 9.77	16.32
40 05 23 23-0704 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	81.54 11.00	18.34
40 05 23 23-0705 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	102.24 13.01	21.76
40 05 23 23-0706 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	148.85 17.09	28.59
40 05 23 23-0707 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	247.31 31.98	49.77
40 05 23 23-0708 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	315.40 35.18	54.73
40 05 23 23-0709 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	377.25 39.09	60.85
40 05 23 23-0710 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	463.77 43.98	68.41
40 05 23 23-0711 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	510.81 50.26	78.19
40 05 23 23-0712 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	572.51 58.64	91.21
40 05 23 23-0713 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	793.93 70.37	109.46
40 05 23 23-0714 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	1,035.08 87.95	136.82
40 05 23 23-0715 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0695)		
40 05 23 23-0716 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	152.58 43.25	64.89
40 05 23 23-0717 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	161.45 45.92	68.87
40 05 23 23-0718 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	178.13 50.46	75.69
40 05 23 23-0719 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	195.25 54.99	82.50
40 05 23 23-0720 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	214.28 60.73	91.10
40 05 23 23-0721 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	239.73 67.57	101.35
40 05 23 23-0722 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	313.45 86.47	129.71
40 05 23 23-0723 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	369.15 101.35	152.02
40 05 23 23-0724 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	454.77 121.31	181.96
40 05 23 23-0725 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	639.56 151.54	227.31
40 05 23 23-0726 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,085.13 251.30	376.95
40 05 23 23-0727 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,656.76 335.06	502.59
40 05 23 23-0728 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,484.97 502.59	753.89
40 05 23 23-0729 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,899.49 586.36	879.54
40 05 23 23-0730 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,476.73 668.85	1,003.27
40 05 23 23-0731 EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	4,379.88 837.66	1,256.49
40 05 23 23-0732 EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	6,115.37 1,172.72	1,759.08
40 05 23 23-0733 EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	8,803.13 1,675.31	2,512.97



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0734 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0695)		
40 05 23 23-0735 EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	154.87 43.25	64.89
40 05 23 23-0736 EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	163.74 45.92	68.87
40 05 23 23-0737 EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	180.42 50.46	75.69
40 05 23 23-0738 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	198.31 54.99	82.50
40 05 23 23-0739 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	214.28 60.73	91.10
40 05 23 23-0740 EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	239.73 67.57	101.35
40 05 23 23-0741 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	311.15 86.47	129.71
40 05 23 23-0742 EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	365.71 101.35	152.02
40 05 23 23-0743 EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	446.75 121.31	181.96
40 05 23 23-0744 EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	592.20 151.54	227.31
40 05 23 23-0745 EA 8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,000.16 251.30	376.95
40 05 23 23-0746 EA 10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	1,622.56 335.06	502.59
40 05 23 23-0747 EA 12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,371.54 502.59	753.89
40 05 23 23-0748 EA 14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	2,793.21 586.36	879.54
40 05 23 23-0749 EA 16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	3,281.86 668.85	1,003.27
40 05 23 23-0750 EA 18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	4,150.40 837.66	1,256.49
40 05 23 23-0751 EA 20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	5,909.18 1,172.72	1,759.08
40 05 23 23-0752 EA 24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	8,528.50 1,675.31	2,512.97
40 05 23 23-0753 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 23-0695)		
40 05 23 23-0754 EA 1/2", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	209.23 54.98	82.47
40 05 23 23-0755 EA 3/4", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	250.94 67.49	101.23
40 05 23 23-0756 EA 1", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	278.73 75.83	113.75
40 05 23 23-0757 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	320.74 86.47	129.71
40 05 23 23-0758 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	337.67 92.82	139.23
40 05 23 23-0759 EA 2", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	366.49 101.24	151.86
40 05 23 23-0760 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	447.13 121.31	181.96
40 05 23 23-0761 EA 3", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	560.60 152.03	228.04
40 05 23 23-0762 EA 4", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	647.78 170.62	255.93
40 05 23 23-0763 EA 6", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	972.17 227.49	341.23
40 05 23 23-0764 EA 8", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	1,634.49 335.06	502.59
40 05 23 23-0765 EA 10", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	2,563.33 502.59	753.89
40 05 23 23-0766 EA 12", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	3,311.69 628.24	942.36
40 05 23 23-0767 EA 14", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	4,285.45 754.97	1,132.46
40 05 23 23-0768 EA 16", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	5,040.55 920.98	1,381.48
40 05 23 23-0769 EA 18", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	6,405.21 1,172.72	1,759.08
40 05 23 23-0770 EA 20", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	8,664.05 1,543.05	2,314.58
40 05 23 23-0771 EA 24", Type 316, Schedule 10 Stainless Steel Tee..... For Work In Restricted Working Space, Add	12,302.53 2,345.44	3,518.15
40 05 23 23-0772 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0695)		
40 05 23 23-0773 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	202.38 45.93	68.90

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0774 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	239.17 56.28	84.43
40 05 23 23-0775 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	296.36 63.24	94.87
40 05 23 23-0776 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	299.13 72.10	108.15
40 05 23 23-0777 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	317.05 77.47	116.20
40 05 23 23-0778 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	446.02 84.43	126.64
40 05 23 23-0779 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	421.74 101.20	151.80
40 05 23 23-0780 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	574.37 126.48	189.73
40 05 23 23-0781 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	834.24 144.52	216.78
40 05 23 23-0782 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,649.17 209.41	314.12
40 05 23 23-0783 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,087.06 279.22	418.83
40 05 23 23-0784 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,009.00 418.83	628.23
40 05 23 23-0785 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,544.20 503.17	754.76
40 05 23 23-0786 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,636.47 613.77	920.66
40 05 23 23-0787 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	7,288.31 781.81	1,172.72
40 05 23 23-0788 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	10,440.80 1,028.70	1,543.05
40 05 23 23-0789 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	16,375.05 1,562.24	2,343.35
40 05 23 23-0790 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0695)		
40 05 23 23-0791 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	155.65 41.77	62.66
40 05 23 23-0792 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	171.97 45.52	68.27
40 05 23 23-0793 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	192.09 50.46	75.69
40 05 23 23-0794 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	200.11 54.99	82.50
40 05 23 23-0795 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	217.33 60.73	91.10
40 05 23 23-0796 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	288.80 75.89	113.84
40 05 23 23-0797 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	337.27 86.40	129.60
40 05 23 23-0798 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	366.54 101.24	151.86
40 05 23 23-0799 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	514.04 128.89	193.34
40 05 23 23-0800 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	795.20 201.04	301.56
40 05 23 23-0801 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,034.01 251.30	376.95
40 05 23 23-0802 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,384.15 335.06	502.59
40 05 23 23-0803 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,983.82 439.77	659.66
40 05 23 23-0804 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,307.77 501.16	751.73
40 05 23 23-0805 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,853.96 628.24	942.36
40 05 23 23-0806 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,036.34 837.66	1,256.49
40 05 23 23-0807 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,856.48 1,256.49	1,884.72
40 05 23 23-0808 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	185.34 41.77	62.66
40 05 23 23-0809 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	207.23 45.52	68.27
40 05 23 23-0810 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	233.89 50.46	75.69
40 05 23 23-0811 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	249.00 54.99	82.50
40 05 23 23-0812 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	247.50 60.73	91.10
40 05 23 23-0813 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	330.50 75.89	113.84
40 05 23 23-0814 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	380.04 86.40	129.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0815 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	424.54 101.24	151.86
40 05 23 23-0816 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	613.72 128.89	193.34
40 05 23 23-0817 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	1,011.22 201.04	301.56
40 05 23 23-0818 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	1,406.03 251.30	376.95
40 05 23 23-0819 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	1,770.19 335.06	502.59
40 05 23 23-0820 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	2,715.89 439.77	659.66
40 05 23 23-0821 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	3,192.58 501.16	751.73
40 05 23 23-0822 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	3,953.26 628.24	942.36
40 05 23 23-0823 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	5,794.48 837.66	1,256.49
40 05 23 23-0824 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	7,944.41 1,256.49	1,884.72
40 05 23 23-0825 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0695)		
40 05 23 23-0826 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	88.89 21.63	32.45
40 05 23 23-0827 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	99.06 22.96	34.42
40 05 23 23-0828 EA 1", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	108.54 25.23	37.84
40 05 23 23-0829 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	118.73 27.50	41.24
40 05 23 23-0830 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	127.95 30.37	45.54
40 05 23 23-0831 EA 2", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	133.61 33.78	50.67
40 05 23 23-0832 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	166.35 43.24	64.87
40 05 23 23-0833 EA 3", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	197.18 50.68	76.02
40 05 23 23-0834 EA 4", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	236.17 60.65	90.99
40 05 23 23-0835 EA 6", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	309.49 75.89	113.84
40 05 23 23-0836 EA 8", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	520.30 125.65	188.47
40 05 23 23-0837 EA 10", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	689.81 167.53	251.30
40 05 23 23-0838 EA 12", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	1,013.72 251.30	376.94
40 05 23 23-0839 EA 14", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	1,178.57 293.18	439.76
40 05 23 23-0840 EA 16", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	1,356.46 334.43	501.63
40 05 23 23-0841 EA 18", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	1,710.96 418.83	628.23
40 05 23 23-0842 EA 20", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	2,367.49 586.36	879.54
40 05 23 23-0843 EA 24", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	3,601.78 837.66	1,256.48
40 05 23 23-0844 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0845 Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0844)		
40 05 23 23-0846 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	24.71 3.42	5.69
40 05 23 23-0847 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	30.02 4.18	6.95
40 05 23 23-0848 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	36.76 4.90	8.22
40 05 23 23-0849 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	45.95 6.12	10.12
40 05 23 23-0850 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	52.93 6.90	11.39
40 05 23 23-0851 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	67.80 8.55	14.55
40 05 23 23-0852 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	84.10 9.77	16.44
40 05 23 23-0853 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	82.04 11.00	18.34
40 05 23 23-0854 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	135.14 13.01	21.50
40 05 23 23-0855 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	210.27 17.09	28.45

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0856 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	369.41 31.98	49.51
40 05 23 23-0857 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	467.67 35.18	54.73
40 05 23 23-0858 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	582.91 39.09	60.59
40 05 23 23-0859 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0844)		
40 05 23 23-0860 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	154.49 43.25	64.89
40 05 23 23-0861 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	163.36 45.92	68.87
40 05 23 23-0862 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	180.04 50.46	75.69
40 05 23 23-0863 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	196.09 54.99	82.50
40 05 23 23-0864 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	216.19 60.73	91.10
40 05 23 23-0865 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	244.32 67.57	101.35
40 05 23 23-0866 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	327.58 86.47	129.71
40 05 23 23-0867 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	389.00 101.35	152.02
40 05 23 23-0868 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	498.31 121.31	181.96
40 05 23 23-0869 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	792.32 151.54	227.31
40 05 23 23-0870 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,377.55 251.30	376.95
40 05 23 23-0871 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,296.07 335.06	502.59
40 05 23 23-0872 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,258.32 502.59	753.89
40 05 23 23-0873 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,629.44 586.36	879.54
40 05 23 23-0874 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	4,429.70 668.85	1,003.27
40 05 23 23-0875 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,665.11 837.66	1,256.49
40 05 23 23-0876 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,627.02 1,172.72	1,759.08
40 05 23 23-0877 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	11,084.91 1,675.31	2,512.97
40 05 23 23-0878 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0844)		
40 05 23 23-0879 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	158.31 43.25	64.89
40 05 23 23-0880 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	167.18 45.92	68.87
40 05 23 23-0881 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	182.33 50.46	75.69
40 05 23 23-0882 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	197.20 54.99	82.50
40 05 23 23-0883 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	218.48 60.73	91.10
40 05 23 23-0884 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	244.32 67.57	101.35
40 05 23 23-0885 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	327.58 86.47	129.71
40 05 23 23-0886 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	374.11 101.35	152.02
40 05 23 23-0887 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	470.05 121.31	181.96
40 05 23 23-0888 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	676.22 151.54	227.31
40 05 23 23-0889 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,172.99 251.30	376.95
40 05 23 23-0890 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,824.65 335.06	502.59
40 05 23 23-0891 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,627.25 502.59	753.89
40 05 23 23-0892 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,976.29 586.36	879.54
40 05 23 23-0893 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,358.14 668.85	1,003.27
40 05 23 23-0894 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	4,331.11 837.66	1,256.49
40 05 23 23-0895 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,867.34 1,172.72	1,759.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0896 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... For Work In Restricted Working Space, Add	8,734.91 1,675.31	2,512.97
40 05 23 23-0897 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0844)		
40 05 23 23-0898 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	211.52 54.98	82.47
40 05 23 23-0899 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	253.23 67.49	101.23
40 05 23 23-0900 EA 1", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	281.02 75.83	113.75
40 05 23 23-0901 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	324.07 86.47	129.71
40 05 23 23-0902 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	337.67 92.82	139.23
40 05 23 23-0903 EA 2", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	368.02 101.24	151.86
40 05 23 23-0904 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	460.74 121.31	181.96
40 05 23 23-0905 EA 3", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	567.85 152.03	228.04
40 05 23 23-0906 EA 4", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	660.39 170.62	255.93
40 05 23 23-0907 EA 6", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	1,061.91 227.49	341.23
40 05 23 23-0908 EA 8", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	1,865.06 335.06	502.59
40 05 23 23-0909 EA 10", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	3,172.10 502.59	753.89
40 05 23 23-0910 EA 12", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	3,895.33 628.24	942.36
40 05 23 23-0911 EA 14", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	5,658.39 754.97	1,132.46
40 05 23 23-0912 EA 16", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	7,019.00 920.98	1,381.48
40 05 23 23-0913 EA 18", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	9,102.16 1,172.72	1,759.08
40 05 23 23-0914 EA 20", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	11,814.97 1,543.05	2,314.58
40 05 23 23-0915 EA 24", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	16,853.33 2,345.44	3,518.15
40 05 23 23-0916 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0844)		
40 05 23 23-0917 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	209.63 45.93	68.90
40 05 23 23-0918 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	244.13 56.28	84.43
40 05 23 23-0919 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	326.91 63.24	94.87
40 05 23 23-0920 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	310.97 72.10	108.15
40 05 23 23-0921 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	317.05 77.47	116.20
40 05 23 23-0922 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	448.31 84.43	126.64
40 05 23 23-0923 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	438.16 101.20	151.80
40 05 23 23-0924 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	590.79 126.48	189.73
40 05 23 23-0925 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	844.55 144.52	216.78
40 05 23 23-0926 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	1,446.23 209.41	314.12
40 05 23 23-0927 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	3,137.80 279.22	418.83
40 05 23 23-0928 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	4,110.47 418.83	628.23
40 05 23 23-0929 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	4,655.53 503.17	754.76
40 05 23 23-0930 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	5,775.90 613.77	920.66
40 05 23 23-0931 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	7,470.14 781.81	1,172.72
40 05 23 23-0932 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	10,713.09 1,028.70	1,543.05
40 05 23 23-0933 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	16,808.72 1,562.24	2,343.35
40 05 23 23-0934 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0844)		
40 05 23 23-0935 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	161.76 41.77	62.66

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0936 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	178.08 45.52	68.27
40 05 23 23-0937 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	194.86 50.46	75.69
40 05 23 23-0938 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	206.99 54.99	82.50
40 05 23 23-0939 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	221.54 60.73	91.10
40 05 23 23-0940 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	302.24 75.89	113.84
40 05 23 23-0941 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	322.37 86.40	129.60
40 05 23 23-0942 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	371.84 101.24	151.86
40 05 23 23-0943 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	516.71 128.89	193.34
40 05 23 23-0944 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	875.12 201.04	301.56
40 05 23 23-0945 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,184.55 251.30	376.95
40 05 23 23-0946 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,492.21 335.06	502.59
40 05 23 23-0947 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,189.65 439.77	659.66
40 05 23 23-0948 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,526.83 501.16	751.73
40 05 23 23-0949 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,401.13 628.24	942.36
40 05 23 23-0950 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,621.64 837.66	1,256.49
40 05 23 23-0951 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	6,595.55 1,256.49	1,884.72
40 05 23 23-0952 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	204.92 41.77	62.66
40 05 23 23-0953 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	217.42 45.52	68.27
40 05 23 23-0954 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	253.75 50.46	75.69
40 05 23 23-0955 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	260.84 54.99	82.50
40 05 23 23-0956 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	278.82 60.73	91.10
40 05 23 23-0957 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	330.50 75.89	113.84
40 05 23 23-0958 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	432.74 86.40	129.60
40 05 23 23-0959 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	466.55 101.24	151.86
40 05 23 23-0960 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	672.15 128.89	193.34
40 05 23 23-0961 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	991.43 201.04	301.56
40 05 23 23-0962 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,440.25 251.30	376.95
40 05 23 23-0963 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,003.65 335.06	502.59
40 05 23 23-0964 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,048.92 439.77	659.66
40 05 23 23-0965 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,516.04 501.16	751.73
40 05 23 23-0966 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,753.38 628.24	942.36
40 05 23 23-0967 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	6,092.87 837.66	1,256.49
40 05 23 23-0968 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	9,133.83 1,256.49	1,884.72
40 05 23 23-0969 Type 316, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0844)		
40 05 23 23-0970 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	89.66 21.63	32.45
40 05 23 23-0971 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	98.68 22.96	34.42
40 05 23 23-0972 EA 1", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	109.31 25.23	37.84
40 05 23 23-0973 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	125.81 27.50	41.24
40 05 23 23-0974 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	122.22 30.37	45.54
40 05 23 23-0975 EA 2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	138.96 33.78	50.67
40 05 23 23-0976 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	173.29 43.24	64.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0977 EA 3", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	198.33 50.68	76.02
40 05 23 23-0978 EA 4", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	244.57 60.65	90.99
40 05 23 23-0979 EA 6", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	344.63 75.89	113.84
40 05 23 23-0980 EA 8", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	586.29 125.65	188.47
40 05 23 23-0981 EA 10", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	786.94 167.53	251.30
40 05 23 23-0982 EA 12", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,172.56 251.30	376.94
40 05 23 23-0983 EA 14", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,332.51 293.18	439.76
40 05 23 23-0984 EA 16", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,494.35 334.43	501.63
40 05 23 23-0985 EA 18", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,912.86 418.63	628.23
40 05 23 23-0986 EA 20", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	2,621.66 586.36	879.54
40 05 23 23-0987 EA 24", Type 316, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	4,096.75 837.66	1,256.48
40 05 23 23-0988 Type 316, Schedule 40 Stainless Steel Butt Half Coupling (40 05 23 23-0944)		
Note: Threaded Female x Butt Weld Straight Adapter		
40 05 23 23-0989 EA 1/2", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	138.15 38.93	64.89
40 05 23 23-0990 EA 3/4", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	149.93 41.32	68.93
40 05 23 23-0991 EA 1", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	171.22 45.42	75.64
40 05 23 23-0992 EA 1-1/4", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	194.92 49.48	82.47
40 05 23 23-0993 EA 1-1/2", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	224.07 54.64	91.07
40 05 23 23-0994 EA 2", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	250.20 60.83	101.32
40 05 23 23-0995 EA 2-1/2", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	374.82 77.83	129.77
40 05 23 23-0996 EA 3", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	449.26 91.22	152.03
40 05 23 23-0997 EA 4", Type 316, Schedule 40 Stainless Steel, Threaded Female x Butt Weld Straight Adapter, Half Coupling For Work In Restricted Working Space, Add	603.38 109.17	182.01
40 05 23 23-0998 Valves (40 05 23 23-0231)		
40 05 23 23-0999 Gate Valves, Class 150 (40 05 23 23-0998)		
40 05 23 23-1000 EA 1/2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	714.15 24.38 -169.29 594.90	65.03
40 05 23 23-1001 EA 3/4" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	776.06 28.45 -182.23 640.36	67.74
40 05 23 23-1002 EA 1" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	956.67 38.34 -221.72 779.13	101.60
40 05 23 23-1003 EA 1-1/4" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,205.94 44.18 -283.20 995.16	118.54
40 05 23 23-1004 EA 1-1/2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,360.10 55.96 -313.93 1,103.16	149.23
40 05 23 23-1005 EA 2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,614.63 67.74 -371.51 1,305.50	180.60
40 05 23 23-1006 EA 2-1/2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	2,318.35 73.90 1,947.70	196.44
40 05 23 23-1007 EA 3" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	2,611.35 86.48 2,183.71	230.31
40 05 23 23-1008 EA 4" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	3,455.65 145.16 2,793.49	386.12
40 05 23 23-1009 EA 6" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	5,777.53 183.55 4,855.76	487.72

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1010 EA 8" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	12,595.32 232.25 11,111.89	623.20
40 05 23 23-1011 EA 10" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	17,748.60 284.51 15,792.24	758.68
40 05 23 23-1012 EA 12" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	26,717.44 344.85 24,033.86	921.24
40 05 23 23-1013 Globe Valves, Class 150 (40 05 23 23-0998)		
40 05 23 23-1014 EA 1/2" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	975.30 24.38 -239.15 840.38	65.03
40 05 23 23-1015 EA 3/4" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,079.54 28.45 -263.41 925.63	67.74
40 05 23 23-1016 EA 1" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,345.74 38.34 -325.80 1,144.85	101.60
40 05 23 23-1017 EA 1-1/2" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	2,000.47 55.96 -485.23 1,705.10	149.23
40 05 23 23-1018 EA 2" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	2,441.41 67.74 -592.68 2,082.67	180.60
40 05 23 23-1019 EA 2-1/2" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	4,910.78 73.90 4,384.58	196.44
40 05 23 23-1020 EA 3" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	5,082.27 86.48 4,506.38	230.31
40 05 23 23-1021 EA 4" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	6,055.26 145.16 5,237.13	386.12
40 05 23 23-1022 EA 6" Globe Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	11,171.60 183.55 9,926.18	487.72
40 05 23 23-1023 Check Valves, Class 150 (40 05 23 23-0998)		
40 05 23 23-1024 EA 2-1/2" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	2,218.92 73.90 1,854.23	196.44
40 05 23 23-1025 EA 3" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	2,322.35 86.48 1,912.05	230.31
40 05 23 23-1026 EA 4" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	3,649.51 145.16 2,975.72	386.12
40 05 23 23-1027 EA 6" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	6,269.61 183.55 5,318.31	487.72
40 05 23 23-1028 EA 8" Check Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	11,012.03 232.25 9,623.60	623.20
40 05 23 23-1029 Stainless Steel Thread-O-Let Fittings (40 05 23 23-0231)		
40 05 23 23-1030 EA 1/2", Stainless Steel Thread-o-let Fitting For Work In Restricted Working Space, Add	106.82 26.22	39.33
40 05 23 23-1031 EA 3/4", Stainless Steel Thread-o-let Fitting For Work In Restricted Working Space, Add	140.81 34.96	52.45
40 05 23 23-1032 EA 1", Stainless Steel Thread-o-let Fitting For Work In Restricted Working Space, Add	173.40 43.35	65.03
40 05 23 23-1033 EA 1-1/4", Stainless Steel Thread-o-let Fitting For Work In Restricted Working Space, Add	249.33 61.35	92.01
40 05 23 23-1034 EA 1-1/2", Stainless Steel Thread-o-let Fitting For Work In Restricted Working Space, Add	275.44 69.18	103.77
40 05 23 23-1035 EA 2", Stainless Steel Thread-o-let Fitting For Work In Restricted Working Space, Add	343.99 87.88	131.82
40 05 23 23-1036 EA 2-1/2", Stainless Steel Thread-o-let Fitting For Work In Restricted Working Space, Add	622.84 135.48	203.22
40 05 23 23-1037 EA 3", Stainless Steel Thread-o-let Fitting For Work In Restricted Working Space, Add	837.58 172.95	259.43
40 05 23 23-1038 EA 4", Stainless Steel Thread-o-let Fitting For Work In Restricted Working Space, Add	1,108.74 216.77	325.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1039 Stainless Steel Flanges (40 05 23 23-0231)		
40 05 23 23-1040 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1039)		
40 05 23 23-1041 EA 1/2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	81.59	21.85
For Work In Restricted Working Space, Add	13.11	
40 05 23 23-1042 EA 3/4", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	100.36	29.14
For Work In Restricted Working Space, Add	17.48	
40 05 23 23-1043 EA 1", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	119.40	36.14
For Work In Restricted Working Space, Add	21.68	
40 05 23 23-1044 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	162.03	51.12
For Work In Restricted Working Space, Add	30.68	
40 05 23 23-1045 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	175.08	57.65
For Work In Restricted Working Space, Add	34.59	
40 05 23 23-1046 EA 2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	224.77	73.23
For Work In Restricted Working Space, Add	43.94	
40 05 23 23-1047 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	335.24	112.86
For Work In Restricted Working Space, Add	67.74	
40 05 23 23-1048 EA 3", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	402.75	230.31
For Work In Restricted Working Space, Add	86.48	
40 05 23 23-1049 EA 4", 150 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	517.86	180.60
For Work In Restricted Working Space, Add	108.38	
40 05 23 23-1050 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1039)		
40 05 23 23-1051 EA 1/2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	103.49	21.85
For Work In Restricted Working Space, Add	13.11	
40 05 23 23-1052 EA 3/4", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	118.05	29.14
For Work In Restricted Working Space, Add	17.48	
40 05 23 23-1053 EA 1", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	132.03	36.14
For Work In Restricted Working Space, Add	21.68	
40 05 23 23-1054 EA 1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	194.04	51.12
For Work In Restricted Working Space, Add	30.68	
40 05 23 23-1055 EA 1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	207.09	57.65
For Work In Restricted Working Space, Add	34.59	
40 05 23 23-1056 EA 2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	257.60	73.23
For Work In Restricted Working Space, Add	43.94	
40 05 23 23-1057 EA 2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	408.49	112.86
For Work In Restricted Working Space, Add	67.74	
40 05 23 23-1058 EA 3", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	477.66	230.31
For Work In Restricted Working Space, Add	86.48	
40 05 23 23-1059 EA 4", 300 Lb., Type 304 Stainless Steel Raised Face Threaded Flange.....	633.20	180.60
For Work In Restricted Working Space, Add	108.38	
40 05 23 23-1060 150 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1039)		
40 05 23 23-1061 EA 1/2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	109.97	32.43
For Work In Restricted Working Space, Add	21.63	
40 05 23 23-1062 EA 3/4", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	118.62	34.42
For Work In Restricted Working Space, Add	22.96	
40 05 23 23-1063 EA 1", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	132.92	37.84
For Work In Restricted Working Space, Add	25.23	
40 05 23 23-1064 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	161.64	41.27
For Work In Restricted Working Space, Add	27.52	
40 05 23 23-1065 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	171.01	45.49
For Work In Restricted Working Space, Add	30.33	
40 05 23 23-1066 EA 2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	190.09	50.68
For Work In Restricted Working Space, Add	33.79	
40 05 23 23-1067 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	261.07	64.81
For Work In Restricted Working Space, Add	43.21	
40 05 23 23-1068 EA 3", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	296.60	75.88
For Work In Restricted Working Space, Add	50.59	
40 05 23 23-1069 EA 4", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	380.53	90.91
For Work In Restricted Working Space, Add	60.62	
40 05 23 23-1070 EA 6", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	560.56	113.59
For Work In Restricted Working Space, Add	75.74	
40 05 23 23-1071 EA 8", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	940.76	188.47
For Work In Restricted Working Space, Add	125.65	
40 05 23 23-1072 EA 10", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	1,328.70	251.28
For Work In Restricted Working Space, Add	167.53	
40 05 23 23-1073 EA 12", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	2,039.76	376.94
For Work In Restricted Working Space, Add	251.30	
40 05 23 23-1074 EA 14", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	2,539.41	439.76
For Work In Restricted Working Space, Add	293.18	
40 05 23 23-1075 EA 16", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	3,153.24	501.63
For Work In Restricted Working Space, Add	334.43	
40 05 23 23-1076 EA 18", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	3,872.42	628.23
For Work In Restricted Working Space, Add	418.83	
40 05 23 23-1077 EA 20", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	5,039.65	879.54
For Work In Restricted Working Space, Add	586.36	
40 05 23 23-1078 EA 24", 150 Lb., Type 304 Stainless Steel Weld Neck Flange.....	7,164.09	1,256.48
For Work In Restricted Working Space, Add	837.66	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 23 23-1079	300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1039)				
40 05 23 23-1080	EA 1/2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	136.08 21.63		32.43	
40 05 23 23-1081	EA 3/4", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	140.52 22.96		34.42	
40 05 23 23-1082	EA 1", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	148.10 25.23		37.84	
40 05 23 23-1083	EA 1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	191.06 27.52		41.27	
40 05 23 23-1084	EA 1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	200.43 30.33		45.49	
40 05 23 23-1085	EA 2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	215.35 33.79		50.68	
40 05 23 23-1086	EA 2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	304.82 43.21		64.81	
40 05 23 23-1087	EA 3", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	345.41 50.59		75.88	
40 05 23 23-1088	EA 4", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	494.99 60.62		90.91	
40 05 23 23-1089	EA 6", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	690.20 75.74		113.59	
40 05 23 23-1090	EA 8", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	1,264.01 125.65		188.47	
40 05 23 23-1091	EA 10", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	1,755.52 167.53		251.28	
40 05 23 23-1092	EA 12", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	2,581.93 251.30		376.94	
40 05 23 23-1093	EA 14", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	3,396.46 293.18		439.76	
40 05 23 23-1094	EA 16", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	4,178.17 334.43		501.63	
40 05 23 23-1095	EA 18", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	5,331.89 418.83		628.23	
40 05 23 23-1096	EA 20", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	6,906.98 586.36		879.54	
40 05 23 23-1097	EA 24", 300 Lb., Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	10,048.07 837.66		1,256.48	
40 05 23 23-1098	150 Lb., Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1039)				
40 05 23 23-1099	EA 1/2", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	177.85 43.25		64.88	
40 05 23 23-1100	EA 3/4", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	187.57 45.92		68.86	
40 05 23 23-1101	EA 1", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	206.09 50.46		75.69	
40 05 23 23-1102	EA 1-1/4", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	234.83 55.04		82.56	
40 05 23 23-1103	EA 1-1/2", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	253.58 60.67		91.00	
40 05 23 23-1104	EA 2", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	291.81 67.58		101.37	
40 05 23 23-1105	EA 2-1/2", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	381.52 86.42		129.62	
40 05 23 23-1106	EA 3", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	437.47 101.18		151.75	
40 05 23 23-1107	EA 4", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	540.50 121.23		181.85	
40 05 23 23-1108	EA 6", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	712.84 151.47		227.19	
40 05 23 23-1109	EA 8", 150 Lb., Type 304 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	1,230.81 251.30		376.94	
40 05 23 23-1110	EA 10" 150 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,727.19 335.06		502.59	
40 05 23 23-1111	EA 12" 150 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	2,576.91 502.59		753.88	
40 05 23 23-1112	300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1039)				
40 05 23 23-1113	EA 1/2", 300 Lb., Type 304 Stainless Steel Raised Neck Slip-On Flange For Work In Restricted Working Space, Add	194.69 43.25		64.88	
40 05 23 23-1114	EA 3/4", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	203.56 45.92		68.86	
40 05 23 23-1115	EA 1", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	218.72 50.46		75.69	
40 05 23 23-1116	EA 1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	260.93 55.04		82.56	
40 05 23 23-1117	EA 1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	279.68 60.67		91.00	
40 05 23 23-1118	EA 2", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	309.45 67.58		101.37	
40 05 23 23-1119	EA 2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	447.21 86.42		129.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1120 EA 3", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	503.12 101.18	151.75
40 05 23 23-1121 EA 4", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	631.40 121.23	181.85
40 05 23 23-1122 EA 6", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	969.59 151.47	227.19
40 05 23 23-1123 EA 8", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,490.07 251.30	376.94
40 05 23 23-1124 EA 10", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	2,144.74 335.06	502.59
40 05 23 23-1125 EA 12", 300 Lb., Type 304 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	3,114.01 502.59	753.88
40 05 23 23-1126 150 Lb., Type 304 Stainless Steel Blind Flanges (40 05 23 23-1039)		
40 05 23 23-1127 EA 1/2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	64.76 8.65	12.96
40 05 23 23-1128 EA 3/4", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	67.64 9.18	13.76
40 05 23 23-1129 EA 1", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	73.23 10.10	15.12
40 05 23 23-1130 EA 1-1/4", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	93.85 11.23	16.84
40 05 23 23-1131 EA 1-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	107.01 15.18	22.77
40 05 23 23-1132 EA 2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	126.06 16.85	25.27
40 05 23 23-1133 EA 2-1/2", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	171.55 21.67	32.49
40 05 23 23-1134 EA 3", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	210.62 30.35	45.53
40 05 23 23-1135 EA 4", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	321.84 50.58	75.86
40 05 23 23-1136 EA 6", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	440.72 65.04	97.56
40 05 23 23-1137 EA 8", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	670.58 78.18	117.27
40 05 23 23-1138 EA 10", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,024.91 93.82	140.73
40 05 23 23-1139 EA 12", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,354.79 117.27	175.90
40 05 23 23-1140 EA 14", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,721.66 146.59	219.88
40 05 23 23-1141 EA 16", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	2,216.20 167.21	250.82
40 05 23 23-1142 EA 18", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	2,623.00 209.42	314.12
40 05 23 23-1143 EA 20", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	3,487.69 293.18	439.76
40 05 23 23-1144 EA 24", 150 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	5,077.45 418.83	628.23
40 05 23 23-1145 300 Lb., Type 304 Stainless Steel Blind Flanges (40 05 23 23-1039)		
40 05 23 23-1146 EA 1/2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	81.89 8.65	12.96
40 05 23 23-1147 EA 3/4", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	83.67 9.18	13.76
40 05 23 23-1148 EA 1", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	86.71 10.10	15.12
40 05 23 23-1149 EA 1-1/4", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	109.83 11.23	16.84
40 05 23 23-1150 EA 1-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	122.99 15.18	22.77
40 05 23 23-1151 EA 2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	134.47 16.85	25.27
40 05 23 23-1152 EA 2-1/2", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	230.47 21.67	32.49
40 05 23 23-1153 EA 3", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	265.76 30.35	45.53
40 05 23 23-1154 EA 4", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	390.84 50.58	75.86
40 05 23 23-1155 EA 6", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	725.24 65.04	97.56
40 05 23 23-1156 EA 8", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,010.67 78.18	117.27
40 05 23 23-1157 EA 10", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,439.06 93.82	140.73
40 05 23 23-1158 EA 12", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,990.37 117.27	175.90
40 05 23 23-1159 EA 14", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	2,781.73 146.59	219.88
40 05 23 23-1160 EA 16", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	3,554.57 167.21	250.82

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1161	EA	18", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	4,637.23	314.12
		<i>For Work In Restricted Working Space, Add</i>	209.42	
40 05 23 23-1162	EA	20", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	5,877.46	439.76
		<i>For Work In Restricted Working Space, Add</i>	293.18	
40 05 23 23-1163	EA	24", 300 Lb., Type 304 Stainless Steel Raised Face Blind Flange	9,008.04	628.23
		<i>For Work In Restricted Working Space, Add</i>	418.83	
40 05 23 23-1164 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1039)				
40 05 23 23-1165	EA	1/2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	96.77	21.85
		<i>For Work In Restricted Working Space, Add</i>	13.11	
40 05 23 23-1166	EA	3/4", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	119.75	29.14
		<i>For Work In Restricted Working Space, Add</i>	17.48	
40 05 23 23-1167	EA	1", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	137.89	36.14
		<i>For Work In Restricted Working Space, Add</i>	21.68	
40 05 23 23-1168	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	189.79	51.12
		<i>For Work In Restricted Working Space, Add</i>	30.68	
40 05 23 23-1169	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	202.84	57.65
		<i>For Work In Restricted Working Space, Add</i>	34.59	
40 05 23 23-1170	EA	2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	255.09	73.23
		<i>For Work In Restricted Working Space, Add</i>	43.94	
40 05 23 23-1171	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	379.03	112.86
		<i>For Work In Restricted Working Space, Add</i>	67.74	
40 05 23 23-1172	EA	3", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	459.16	230.31
		<i>For Work In Restricted Working Space, Add</i>	86.48	
40 05 23 23-1173	EA	4", 150 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	596.98	180.60
		<i>For Work In Restricted Working Space, Add</i>	108.38	
40 05 23 23-1174 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1039)				
40 05 23 23-1175	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	125.38	21.85
		<i>For Work In Restricted Working Space, Add</i>	13.11	
40 05 23 23-1176	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	139.94	29.14
		<i>For Work In Restricted Working Space, Add</i>	17.48	
40 05 23 23-1177	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	153.92	36.14
		<i>For Work In Restricted Working Space, Add</i>	21.68	
40 05 23 23-1178	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	236.13	51.12
		<i>For Work In Restricted Working Space, Add</i>	30.68	
40 05 23 23-1179	EA	1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	249.18	57.65
		<i>For Work In Restricted Working Space, Add</i>	34.59	
40 05 23 23-1180	EA	2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	294.63	73.23
		<i>For Work In Restricted Working Space, Add</i>	43.94	
40 05 23 23-1181	EA	2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	491.82	112.86
		<i>For Work In Restricted Working Space, Add</i>	67.74	
40 05 23 23-1182	EA	3", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	562.69	230.31
		<i>For Work In Restricted Working Space, Add</i>	86.48	
40 05 23 23-1183	EA	4", 300 Lb., Type 316 Stainless Steel Raised Face Threaded Flange	768.70	180.60
		<i>For Work In Restricted Working Space, Add</i>	108.38	
40 05 23 23-1184 150 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1039)				
40 05 23 23-1185	EA	1/2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	129.32	32.43
		<i>For Work In Restricted Working Space, Add</i>	21.63	
40 05 23 23-1186	EA	3/4", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	138.01	34.42
		<i>For Work In Restricted Working Space, Add</i>	22.96	
40 05 23 23-1187	EA	1", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	154.81	37.84
		<i>For Work In Restricted Working Space, Add</i>	25.23	
40 05 23 23-1188	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	190.25	41.27
		<i>For Work In Restricted Working Space, Add</i>	27.52	
40 05 23 23-1189	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	199.62	45.49
		<i>For Work In Restricted Working Space, Add</i>	30.33	
40 05 23 23-1190	EA	2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	219.56	50.68
		<i>For Work In Restricted Working Space, Add</i>	33.79	
40 05 23 23-1191	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	310.68	64.81
		<i>For Work In Restricted Working Space, Add</i>	43.21	
40 05 23 23-1192	EA	3", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	341.20	75.88
		<i>For Work In Restricted Working Space, Add</i>	50.59	
40 05 23 23-1193	EA	4", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	456.30	90.91
		<i>For Work In Restricted Working Space, Add</i>	60.62	
40 05 23 23-1194	EA	6", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	691.90	113.59
		<i>For Work In Restricted Working Space, Add</i>	75.74	
40 05 23 23-1195	EA	8", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	1,143.64	188.47
		<i>For Work In Restricted Working Space, Add</i>	125.65	
40 05 23 23-1196	EA	10", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	1,667.13	251.28
		<i>For Work In Restricted Working Space, Add</i>	167.53	
40 05 23 23-1197	EA	12", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	2,486.82	376.94
		<i>For Work In Restricted Working Space, Add</i>	251.30	
40 05 23 23-1198	EA	14", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	2,909.66	439.76
		<i>For Work In Restricted Working Space, Add</i>	293.18	
40 05 23 23-1199	EA	16", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	3,636.39	501.63
		<i>For Work In Restricted Working Space, Add</i>	334.43	
40 05 23 23-1200	EA	18", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	4,459.35	628.23
		<i>For Work In Restricted Working Space, Add</i>	418.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1201	EA	20", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	.....	5,770.88	879.54
		For Work In Restricted Working Space, Add	.....	586.36	
40 05 23 23-1202	EA	24", 150 Lb., Type 316 Stainless Steel Weld Neck Flange	.....	8,200.30	1,256.48
		For Work In Restricted Working Space, Add	.....	837.66	
40 05 23 23-1203 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1039)					
40 05 23 23-1204	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	161.33	32.43
		For Work In Restricted Working Space, Add	.....	21.63	
40 05 23 23-1205	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	165.77	34.42
		For Work In Restricted Working Space, Add	.....	22.96	
40 05 23 23-1206	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	173.35	37.84
		For Work In Restricted Working Space, Add	.....	25.23	
40 05 23 23-1207	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	225.62	41.27
		For Work In Restricted Working Space, Add	.....	27.52	
40 05 23 23-1208	EA	1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	234.99	45.49
		For Work In Restricted Working Space, Add	.....	30.33	
40 05 23 23-1209	EA	2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	257.44	50.68
		For Work In Restricted Working Space, Add	.....	33.79	
40 05 23 23-1210	EA	2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	377.22	64.81
		For Work In Restricted Working Space, Add	.....	43.21	
40 05 23 23-1211	EA	3", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	413.61	75.88
		For Work In Restricted Working Space, Add	.....	50.59	
40 05 23 23-1212	EA	4", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	621.26	90.91
		For Work In Restricted Working Space, Add	.....	60.62	
40 05 23 23-1213	EA	6", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	1,002.52	113.59
		For Work In Restricted Working Space, Add	.....	75.74	
40 05 23 23-1214	EA	8", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	1,583.09	188.47
		For Work In Restricted Working Space, Add	.....	125.65	
40 05 23 23-1215	EA	10", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	2,272.39	251.28
		For Work In Restricted Working Space, Add	.....	167.53	
40 05 23 23-1216	EA	12", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	3,341.22	376.94
		For Work In Restricted Working Space, Add	.....	251.30	
40 05 23 23-1217	EA	14", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	4,500.83	439.76
		For Work In Restricted Working Space, Add	.....	293.18	
40 05 23 23-1218	EA	16", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	5,576.63	501.63
		For Work In Restricted Working Space, Add	.....	334.43	
40 05 23 23-1219	EA	18", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	7,128.60	628.23
		For Work In Restricted Working Space, Add	.....	418.83	
40 05 23 23-1220	EA	20", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	9,167.80	879.54
		For Work In Restricted Working Space, Add	.....	586.36	
40 05 23 23-1221	EA	24", 300 Lb., Type 316 Stainless Steel Raised Face Weld Neck Flange	.....	13,360.42	1,256.48
		For Work In Restricted Working Space, Add	.....	837.66	
40 05 23 23-1222 150 Lb., Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1039)					
40 05 23 23-1223	EA	1/2", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	187.97	64.88
		For Work In Restricted Working Space, Add	.....	43.25	
40 05 23 23-1224	EA	3/4", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	202.75	68.86
		For Work In Restricted Working Space, Add	.....	45.92	
40 05 23 23-1225	EA	1", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	223.48	75.69
		For Work In Restricted Working Space, Add	.....	50.46	
40 05 23 23-1226	EA	1-1/4", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	298.26	82.56
		For Work In Restricted Working Space, Add	.....	55.04	
40 05 23 23-1227	EA	1-1/2", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	273.77	91.00
		For Work In Restricted Working Space, Add	.....	60.67	
40 05 23 23-1228	EA	2", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	296.82	101.37
		For Work In Restricted Working Space, Add	.....	67.58	
40 05 23 23-1229	EA	2-1/2", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	378.16	129.62
		For Work In Restricted Working Space, Add	.....	86.42	
40 05 23 23-1230	EA	3", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	466.08	151.75
		For Work In Restricted Working Space, Add	.....	101.18	
40 05 23 23-1231	EA	4", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	601.09	181.85
		For Work In Restricted Working Space, Add	.....	121.23	
40 05 23 23-1232	EA	6", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	802.89	227.19
		For Work In Restricted Working Space, Add	.....	151.47	
40 05 23 23-1233	EA	8", 150 Lb., Type 316 Stainless Steel Slip-On Flange	.....	1,416.81	376.94
		For Work In Restricted Working Space, Add	.....	251.30	
40 05 23 23-1234	EA	10" 150 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	.....	1,981.43	502.59
		For Work In Restricted Working Space, Add	.....	335.06	
40 05 23 23-1235	EA	12" 150 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	.....	2,916.99	753.88
		For Work In Restricted Working Space, Add	.....	502.59	
40 05 23 23-1236 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1039)					
40 05 23 23-1237	EA	1/2", 300 Lb., Type 316 Stainless Steel Raised Neck Slip-On Flange	.....	211.53	64.88
		For Work In Restricted Working Space, Add	.....	43.25	
40 05 23 23-1238	EA	3/4", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	.....	220.40	68.86
		For Work In Restricted Working Space, Add	.....	45.92	
40 05 23 23-1239	EA	1", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	.....	235.56	75.69
		For Work In Restricted Working Space, Add	.....	50.46	
40 05 23 23-1240	EA	1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange	.....	293.76	82.56
		For Work In Restricted Working Space, Add	.....	55.04	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1241 EA 1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	312.51 60.67	91.00
40 05 23 23-1242 EA 2", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	340.49 67.58	101.37
40 05 23 23-1243 EA 2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	520.42 86.42	129.62
40 05 23 23-1244 EA 3", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	578.03 101.18	151.75
40 05 23 23-1245 EA 4", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	747.56 121.23	181.85
40 05 23 23-1246 EA 6", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,138.81 151.47	227.19
40 05 23 23-1247 EA 8", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,664.34 251.30	376.94
40 05 23 23-1248 EA 10" 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,712.12 335.06	502.59
40 05 23 23-1249 EA 12", 300 Lb., Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	3,614.04 502.59	753.88
40 05 23 23-1250 150 Lb., Type 316 Stainless Steel Blind Flanges (40 05 23 23-1039)		
40 05 23 23-1251 EA 1/2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	72.62 8.65	12.96
40 05 23 23-1252 EA 3/4", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	81.97 9.18	13.76
40 05 23 23-1253 EA 1", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	92.58 10.10	15.12
40 05 23 23-1254 EA 1-1/4", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	108.98 11.23	16.84
40 05 23 23-1255 EA 1-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	122.14 15.18	22.77
40 05 23 23-1256 EA 2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	151.31 16.85	25.27
40 05 23 23-1257 EA 2-1/2", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	211.13 21.67	32.49
40 05 23 23-1258 EA 3", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	254.41 30.35	45.53
40 05 23 23-1259 EA 4", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	395.90 50.58	75.86
40 05 23 23-1260 EA 6", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	559.43 65.04	97.56
40 05 23 23-1261 EA 8", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	954.25 78.18	117.27
40 05 23 23-1262 EA 10", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,248.84 93.82	140.73
40 05 23 23-1263 EA 12", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,000.48 117.27	175.90
40 05 23 23-1264 EA 14", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,382.74 146.59	219.88
40 05 23 23-1265 EA 16", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,105.56 167.21	250.82
40 05 23 23-1266 EA 18", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,655.04 209.42	314.12
40 05 23 23-1267 EA 20", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,833.62 293.18	439.76
40 05 23 23-1268 EA 24", 150 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	7,051.17 418.83	628.23
40 05 23 23-1269 300 Lb., Type 316 Stainless Steel Blind Flanges (40 05 23 23-1039)		
40 05 23 23-1270 EA 1/2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	110.50 8.65	12.96
40 05 23 23-1271 EA 3/4", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	112.28 9.18	13.76
40 05 23 23-1272 EA 1", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	115.32 10.10	15.12
40 05 23 23-1273 EA 1-1/4", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	171.31 11.23	16.84
40 05 23 23-1274 EA 1-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	184.47 15.18	22.77
40 05 23 23-1275 EA 2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	204.33 16.85	25.27
40 05 23 23-1276 EA 2-1/2", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	338.25 21.67	32.49
40 05 23 23-1277 EA 3", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	375.62 30.35	45.53
40 05 23 23-1278 EA 4", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	576.04 50.58	75.86
40 05 23 23-1279 EA 6", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,040.96 65.04	97.56
40 05 23 23-1280 EA 8", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,337.32 78.18	117.27
40 05 23 23-1281 EA 10", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,388.65 93.82	140.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1282 EA 12", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,913.86 117.27	175.90
40 05 23 23-1283 EA 14", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,200.16 146.59	219.88
40 05 23 23-1284 EA 16", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,408.54 167.21	250.82
40 05 23 23-1285 EA 18", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	7,073.87 209.42	314.12
40 05 23 23-1286 EA 20", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	8,908.54 293.18	439.76
40 05 23 23-1287 EA 24", 300 Lb., Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	13,716.52 418.83	628.23
40 05 23 23-1288 Type 316 Seamless Annealed Tubing (40 05 23 23) Note: For high-pressure air (8000 PSIG working pressure).		
40 05 23 23-1289 Type 316 Seamless Annealed Tubing (40 05 23 23-1288)		
40 05 23 23-1290 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness	22.11	
40 05 23 23-1291 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness	26.96	
40 05 23 23-1292 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness	32.48	
40 05 23 23-1293 Type 316 Seamless Annealed Tubing Fittings (40 05 23 23-1288) Note: Pressure rating 5,000 PSI minimum. Includes front and back ferrules.		
40 05 23 23-1294 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	75.65	
40 05 23 23-1295 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	78.02	
40 05 23 23-1296 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules	119.47	
40 05 23 23-1297 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	71.64	
40 05 23 23-1298 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	118.30	
40 05 23 23-1299 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	89.78	
40 05 23 23-1300 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules	110.73	
40 05 23 23-1301 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	170.44	
40 05 23 23-1302 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	108.30	
40 05 23 23-1303 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	167.45	
40 05 23 23-1304 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	106.62	
40 05 23 23-1305 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules	137.58	
40 05 23 23-1306 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	227.42	
40 05 23 23-1307 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	187.56	
40 05 23 23-1308 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	231.22	
40 05 23 23-1309 Valves For High Pressure Air (5,000 PSIG) (40 05 23 23-1288)		
40 05 23 23-1310 Needle Valves (40 05 23 23-1309)		
40 05 23 23-1311 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	423.77	
40 05 23 23-1312 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	672.68	
40 05 23 23-1313 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 23-1309)		
40 05 23 23-1314 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction	406.13	
40 05 23 23-1315 Other Valves Working Pressure 6,000 PSI (40 05 23 23-1309)		
40 05 23 23-1316 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG	1,683.43	
40 05 23 23-1317 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	422.44	
40 05 23 23-1318 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element	81.81	

END OF SECTION 40

40	40	Process Interconnections
	40 05	Common Work Results For Process Interconnections
	40 05 23	Stainless Steel Process Pipe and Tubing



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Process Gas and Liquid Handling, Purification, and Storage Equipment	43
Liquid Handling Equipment	43 20
Dry Location Liquid Pumps	43 23

43

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 20 Liquid Handling Equipment ⁽⁴³⁾

43 23 Dry Location Liquid Pumps ^(43 20)

43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)

43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)

43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)

43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI.....5,120.35

43 24 Suspended Liquid Pumps ^(43 20)

43 24 41 Archimedes Screw Pumps ^(43 24)

43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ^(43 24 41)

43 24 41 23-0001 Positive Displacement Pump ^(43 24 41 23)

43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing.....4,213.98

43 40 Gas and Liquid Storage ⁽⁴³⁾

43 42 Pressurized Tanks And Vessels ^(43 40)

43 42 41 Metallic Specialty Pressure Tanks ^(43 42)

43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls ^(43 42 41)

43 42 41 00-0002	EA	250 Gallon Aboveground LP Gas Storage Tank.....	2,280.11	148.11
43 42 41 00-0003	EA	500 Gallon Aboveground LP Gas Storage Tank.....	4,215.53	222.15
43 42 41 00-0004	EA	1,000 Gallon Aboveground LP Gas Storage Tank.....	6,032.46	236.97

END OF SECTION 43

43	43	Process Gas and Liquid Handling, Purification, and Storage Equipment
	43 40	Gas and Liquid Storage
	43 42	Pressurized Tanks And Vessels



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Custom Standards And Assemblies			50
CALTRANS Custom Standards And Assemblies			50 89
CALTRANS Construction Performance Requirements			50 89 80

50

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies ⁽⁵⁰⁾

Note: Use as directed by owner only.

50 89 80 CALTRANS Construction Performance Requirements ^(50 89)

Note: Refer to www.dot.ca.gov for CALTRANS Standard Plans and Specifications

50 89 81 CALTRANS DIVISION I - GENERAL PROVISIONS ^(50 89 80)

50 89 81 01 PAYMENT ^(50 89 81)

Note: Includes equipment mobilization, hauling over 25 miles, overtime, specialty labor, specialty equipment, reimbursables and permits per CALTRANS Standard. See CSI section 01 22 16 00-0003 for Reimbursable fees and permits, 01 22 20 00-0000 for specialty labor, 01 22 23 00-0000 for specialty equipment, 01 71 13 00-0000 for equipment mobilization, 01 74 19 00-0043 for hauling >25 miles.

50 89 81 01-0001	EA	CALTRANS 999990 MOBILIZATION	0.00

Note: (One Time Per Job) See CSI section 01 71 13 00-0000 for mobilization of equipment.

50 89 82 CALTRANS DIVISION II - GENERAL CONSTRUCTION ^(50 89 80)

50 89 82 12 TEMPORARY TRAFFIC CONTROL ^(50 89 82)

Note: Includes flagging, apparel, temporary traffic control devices, and equipment for flaggers, must comply with the latest California MUTCD per CALTRANS Standard. See CSI section 01 55 26 00-0166 for nightly relocating and set-up as required.

50 89 82 12-0001	EA	CALTRANS 120110 FLASHING ARROW SIGN	1,475.55
Note: Month			
50 89 82 12-0002	EA	CALTRANS 120116 TYPE II BARRICADE	47.28
Note: Month			
50 89 82 12-0003	EA	CALTRANS 120119 TRAFFIC CONE	13.37
Note: Month			
50 89 82 12-0004	EA	CALTRANS 120120 TYPE III BARRICADE	91.65
Note: Month			
50 89 82 12-0005	EA	CALTRANS 120140 BARRICADE (LEFT IN PLACE)	82.65
50 89 82 12-0006	SF	CALTRANS 120149 TEMPORARY PAVEMENT MARKING (PAINT)	3.76
50 89 82 12-0007	LF	CALTRANS 120151 TEMPORARY TRAFFIC STRIPE (TAPE)	5.62
50 89 82 12-0008	SF	CALTRANS 120152 TEMPORARY PAVEMENT MARKING (TAPE)	13.94
50 89 82 12-0009	LF	CALTRANS 120159 TEMPORARY TRAFFIC STRIPE (PAINT)	0.82
50 89 82 12-0010	EA	CALTRANS 120165 CHANNELIZER (SURFACE MOUNTED)	33.40
Note: Month			
50 89 82 12-0011	EA	CALTRANS 120166 CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	73.90
50 89 82 12-0012	EA	CALTRANS 120182 PORTABLE DELINEATOR	26.23
Note: Month			
50 89 82 12-0013	EA	CALTRANS 120198 PLASTIC TRAFFIC DRUMS	39.91
Note: Month			
50 89 82 12-0014	EA	CALTRANS 120200 FLASHING BEACON (PORTABLE)	48.52
Note: Month			
50 89 82 12-0015	EA	CALTRANS 120300 TEMPORARY PAVEMENT MARKER	3.73
50 89 82 12-0016	MO	CALTRANS 128651 PORTABLE CHANGEABLE MESSAGE SIGN (EA)	3,067.71
50 89 82 12-0017	MO	CALTRANS 129100 TEMPORARY CRASH CUSHION MODULE	735.49

50 89 82 13 WATER POLLUTION CONTROL ^(50 89 82)

Note: Includes preventing, controlling, and abating water pollution within waters of the State per CALTRANS Standard.

50 89 82 13-0001	EA	CALTRANS 130310 RAIN EVENT ACTION PLAN	568.50
50 89 82 13-0002	EA	CALTRANS 130320 STORM WATER SAMPLING AND ANALYSIS DAY	518.17
50 89 82 13-0003	EA	CALTRANS 130330 STORM WATER ANNUAL REPORT	2,256.00
50 89 82 13-0004	SY	CALTRANS 130500 TEMPORARY EROSION CONTROL BLANKET	7.01
50 89 82 13-0005	EA	CALTRANS 130505 MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	993.18
50 89 82 13-0006	SY	CALTRANS 130510 TEMPORARY MULCH	5.61
50 89 82 13-0007	SY	CALTRANS 130520 TEMPORARY HYDRAULIC MULCH	1.02
50 89 82 13-0008	SY	CALTRANS 130530 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	0.49
50 89 82 13-0009	SY	CALTRANS 130535 TEMPORARY HYDRAULIC MULCH (CEMENTITIOUS BINDER)	14.56
50 89 82 13-0010	SY	CALTRANS 130540 TEMPORARY TACKED STRAW	0.36
50 89 82 13-0011	SY	CALTRANS 130550 TEMPORARY HYDROSEED	1.02
50 89 82 13-0012	SY	CALTRANS 130560 TEMPORARY SOIL BINDER	0.62
50 89 82 13-0013	SY	CALTRANS 130570 TEMPORARY COVER	8.63
50 89 82 13-0014	EA	CALTRANS 130620 TEMPORARY DRAINAGE INLET PROTECTION	85.74
50 89 82 13-0015	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	8.81
Note: 12" Diameter, Type 1			
For >1,000 To 10,000, Deduct			-1.01
For >10,000, Deduct			-1.71
For 9" Diameter, Deduct			-0.98
50 89 82 13-0016	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	6.86
Note: 12" Diameter, Type 2			
For >1,000 To 10,000, Deduct			-0.72
For >10,000, Deduct			-1.22
For 9" Diameter, Deduct			-0.98
50 89 82 13-0017	LF	CALTRANS 130650 TEMPORARY GRAVEL BAG BERM	15.21
50 89 82 13-0018	LF	CALTRANS 130670 TEMPORARY REINFORCED SILT FENCE	10.80
50 89 82 13-0019	LF	CALTRANS 130680 TEMPORARY SILT FENCE	3.03

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 82 13-0020 LF CALTRANS 130690 TEMPORARY STRAW BALE BARRIER	5.63	
50 89 82 13-0021 EA CALTRANS 130710 TEMPORARY CONSTRUCTION ENTRANCE	2,107.01	
50 89 82 13-0022 SY CALTRANS 130720 TEMPORARY CONSTRUCTION ROADWAY	50.43	
50 89 82 13-0023 EA CALTRANS 131103 WATER QUALITY SAMPLING AND ANALYSIS DAY	518.17	
50 89 82 13-0024 EA CALTRANS 131104 WATER QUALITY MONITORING REPORT	781.00	
50 89 82 13-0025 EA CALTRANS 131105 WATER QUALITY ANNUAL REPORT	838.00	
50 89 83 CALTRANS DIVISION III - GRADING (50 89 80)		
50 89 83 17 GENERAL (50 89 83)		
Note: Includes clear all construction areas above original ground of (1) all vegetation such as trees, logs, upturned stumps, roots of downed trees, brush, grass, and weeds and (2) other objectionable material including concrete, masonry, and debris. Grub all construction areas to a depth necessary to remove all trees, existing stumps, roots, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground per CALTRANS Standard.		
50 89 83 17-0001 ACR CALTRANS 170105 CLEARING AND GRUBBING (ACRE)	14,704.14	
Note: Includes grub and removal of stump. In embankment areas where the grading plane is 2 feet or more above original ground, cut off trees, stumps, and roots not more than 1 foot above original ground, except remove trees, stumps, and roots completely where work includes any of the following: 1. Structure construction, 2. Pile construction, 3. Subdrainage trench excavation, 4. Removal of unsuitable material, 5. Cutting into slopes of original hillsides, old or new fill		
50 89 83 19 EARTHWORK (50 89 83)		
Note: Includes earthwork activities include removal of unsuitable material or a buried man-made object if the removal is described. Excavate and dispose of unsuitable material encountered below the natural ground surface in embankment areas or below the grading plane in excavation areas. Backfill the space resulting from excavating unsuitable material with material suitable for the planned use. Place and compact suitable material. Remove and dispose of a buried man-made object encountered in an excavation as part of the excavation work. Roadway excavation consists of all excavation involved in the grading and construction of the roadway except structure excavation per CALTRANS Standard.		
50 89 83 19-0001 CY CALTRANS 190101 ROADWAY EXCAVATION	25.39	
For >1,000, Deduct	-3.81	
50 89 83 19-0002 CY CALTRANS 190161 ROCK EXCAVATION	41.17	
50 89 83 19-0003 TON CALTRANS 190185 SHOULDER BACKFILL	123.75	
50 89 83 19-0004 CY CALTRANS 192037 STRUCTURE EXCAVATION (RETAINING WALL)	70.16	947.58
50 89 83 19-0005 CY CALTRANS 192049 STRUCTURE EXCAVATION (SOLDIER PILE WALL)	107.43	337.72
50 89 83 19-0006 CY CALTRANS 192502 SAND BEDDING	42.32	
For Up To 8, Add	8.46	
For >8 To 16, Add	4.23	
For >48 To 64, Deduct	-3.11	
For >64 To 96, Deduct	-5.23	
For >96, Deduct	-7.34	
50 89 83 19-0007 CY CALTRANS 193013 STRUCTURE BACKFILL (RETAINING WALL)	70.16	947.58
50 89 83 19-0008 CY CALTRANS 193118 CONCRETE BACKFILL	256.38	
50 89 83 19-0009 CY CALTRANS 198010 IMPORTED BORROW (CY)	74.99	
50 89 83 19-0010 TON CALTRANS 198011 IMPORTED BORROW (TON)	104.98	
50 89 83 19-0011 SY CALTRANS 198206 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1	6.09	
For Up To 50, Add	1.28	
For >50 To 150, Add	0.95	
For >150 To 250, Add	0.63	
For >250 To 500, Add	0.31	
50 89 83 19-0012 SY CALTRANS 198207 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A2	2.51	
For Up To 50, Add	0.55	
For >50 To 150, Add	0.41	
For >150 To 250, Add	0.27	
For >250 To 500, Add	0.13	
50 89 83 19-0013 SY CALTRANS 198208 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B1	7.09	
For Up To 50, Add	1.48	
For >50 To 150, Add	1.10	
For >150 To 250, Add	0.73	
For >250 To 500, Add	0.36	
50 89 83 19-0014 SY CALTRANS 198209 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2	3.44	
For Up To 50, Add	0.73	
For >50 To 150, Add	0.55	
For >150 To 250, Add	0.36	
For >250 To 500, Add	0.18	
50 89 83 19-0015 SY CALTRANS 198210 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B3	3.25	
For Up To 50, Add	0.71	
For >50 To 150, Add	0.53	
For >150 To 250, Add	0.35	
For >250 To 500, Add	0.17	
50 89 83 19-0016 SY CALTRANS 198215 SUBGRADE ENHANCEMENT GEOGRID	5.44	
For Up To 50, Add	1.21	
For >50 To 150, Add	0.89	
For >150 To 250, Add	0.58	
For >250 To 500, Add	0.29	
50 89 83 19-0017 SY CALTRANS 198250 GEOSYNTHETIC REINFORCEMENT	2.33	
50 89 83 20 LANDSCAPE (50 89 83)		
Note: Includes materials and placement per CALTRANS Standard. Underground pipe includes pipe, fittings, trenching, backfill and compaction. Aboveground pipe include pipe, fittings and supports.		
50 89 83 20-0001 SF CALTRANS 200114 ROCK BLANKET	16.58	
For >5,000, Deduct	-2.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0002 SY CALTRANS 200122 WEED GERMINATION.....	0.72	
50 89 83 20-0003 SY CALTRANS 200123 CULTIVATION.....	3.17	
50 89 83 20-0004 LB CALTRANS 202004 IRON SULFATE (LB).....	8.31	
50 89 83 20-0005 CY CALTRANS 202006 SOIL AMENDMENT	129.07	
50 89 83 20-0006 EA CALTRANS 202026 RELOCATE BACKFLOW PREVENTER ASSEMBLY	1,247.01	
50 89 83 20-0007 EA CALTRANS 202027 RELOCATE WATER METER.....	1,247.01	
50 89 83 20-0008 EA CALTRANS 202028 RELOCATE IRRIGATION CONTROLLER.....	1,537.01	
50 89 83 20-0009 LB CALTRANS 202037 ORGANIC FERTILIZER.....	8.43	
50 89 83 20-0010 EA CALTRANS 202038 PACKET FERTILIZER.....	1.28	
50 89 83 20-0011 LB CALTRANS 202039 SLOW-RELEASE FERTILIZER.....	4.38	
50 89 83 20-0012 EA CALTRANS 204003 PLANT (GROUP C) (6' To 8' B&B).....	494.42	
50 89 83 20-0013 EA CALTRANS 204003 PLANT (GROUP C) (10' To 14' B&B).....	925.24	
50 89 83 20-0014 EA CALTRANS 204003 PLANT (GROUP C) (16' To 20' B&B).....	1,442.63	
50 89 83 20-0015 EA CALTRANS 204003 PLANT (GROUP C) (22' To 26' B&B).....	2,259.06	
50 89 83 20-0016 EA CALTRANS 204005 PLANT (GROUP E).....	4.99	
For >100 To 1,000, Deduct	-0.28	
For >1,000 To 5,000, Deduct	-0.43	
For >5,000, Deduct	-0.56	
50 89 83 20-0017 EA CALTRANS 204006 PLANT (GROUP F).....	2.54	
For >100 To 1,000, Deduct	-0.16	
For >1,000 To 5,000, Deduct	-0.26	
For >5,000, Deduct	-0.33	
50 89 83 20-0018 EA CALTRANS 204008 PLANT (GROUP H).....	7.20	
For >10 To 100, Deduct	-0.72	
For >100 To 1,000, Deduct	-1.62	
For >1,000 To 10,000, Deduct	-2.52	
For >10,000 To 25,000, Deduct	-3.60	
For >25,000, Deduct	-5.04	
50 89 83 20-0019 EA CALTRANS 204009 PLANT (GROUP I).....	26.56	
For >100 To 1,000, Deduct	-1.81	
For >1,000 To 5,000, Deduct	-2.95	
For >5,000, Deduct	-3.62	
50 89 83 20-0020 EA CALTRANS 204011 PLANT (GROUP K).....	682.45	
50 89 83 20-0021 EA CALTRANS 204013 PLANT (GROUP M).....	8.80	
For >100 To 1,000, Deduct	-0.51	
For >1,000 To 5,000, Deduct	-0.80	
For >5,000, Deduct	-1.02	
50 89 83 20-0022 EA CALTRANS 204015 PLANT (GROUP S).....	9.83	
For >100 To 1,000, Deduct	-0.62	
For >1,000 To 5,000, Deduct	-0.99	
For >5,000, Deduct	-1.24	
50 89 83 20-0023 EA CALTRANS 204020 PLANT (GROUP P).....	8.32	
For >100 To 1,000, Deduct	-0.48	
For >1,000 To 5,000, Deduct	-0.74	
For >5,000, Deduct	-0.95	
50 89 83 20-0024 EA CALTRANS 204030 TRANSPLANT TREE	4,422.14	
For >5 To 10, Deduct	-221.11	
For >10 To 20, Deduct	-442.21	
For >20, Deduct	-663.32	
50 89 83 20-0025 EA CALTRANS 204035 PLANT (GROUP A).....	35.88	
50 89 83 20-0026 EA CALTRANS 204036 PLANT (GROUP B).....	91.05	
50 89 83 20-0027 EA CALTRANS 204038 PLANT (GROUP U).....	237.93	
50 89 83 20-0028 SY CALTRANS 204045 SOD	21.28	
50 89 83 20-0029 SF CALTRANS 205033 GRAVEL MULCH	1.41	
50 89 83 20-0030 SF CALTRANS 205034 DECOMPOSED GRANITE.....	1.61	
50 89 83 20-0031 CY CALTRANS 205035 WOOD MULCH	130.21	
For >5 To 20, Deduct	-10.52	
For >20 To 50, Deduct	-15.78	
For >50, Deduct	-22.29	
50 89 83 20-0032 EA CALTRANS 205051 FOLIAGE PROTECTOR.....	43.79	
50 89 83 20-0033 EA CALTRANS 205052 ROOT PROTECTOR.....	31.02	
50 89 83 20-0034 LF CALTRANS 205062 ROOT BARRIER	13.88	
50 89 83 20-0035 LF CALTRANS 206005 EDGING.....	18.89	
50 89 83 20-0036 EA CALTRANS 206561 3/4" REMOTE CONTROL VALVE	450.40	
50 89 83 20-0037 EA CALTRANS 206562 1" REMOTE CONTROL VALVE	667.83	
50 89 83 20-0038 EA CALTRANS 206563 1 1/4" REMOTE CONTROL VALVE	725.92	
50 89 83 20-0039 EA CALTRANS 206564 1 1/2" REMOTE CONTROL VALVE	788.99	
50 89 83 20-0040 EA CALTRANS 206565 2" REMOTE CONTROL VALVE	872.04	
50 89 83 20-0041 EA CALTRANS 206566 2 1/2" REMOTE CONTROL VALVE	1,328.92	
50 89 83 20-0042 EA CALTRANS 206567 3" REMOTE CONTROL VALVE	1,785.81	
50 89 83 20-0043 EA CALTRANS 206571 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR	963.09	
50 89 83 20-0044 EA CALTRANS 206630 3/4" WYE STRAINER ASSEMBLY	367.54	
50 89 83 20-0045 EA CALTRANS 206631 1" WYE STRAINER ASSEMBLY.....	398.86	
50 89 83 20-0046 EA CALTRANS 206632 1 1/4" WYE STRAINER ASSEMBLY	445.02	
50 89 83 20-0047 EA CALTRANS 206633 1 1/2" WYE STRAINER ASSEMBLY	472.39	
50 89 83 20-0048 EA CALTRANS 206634 2" WYE STRAINER ASSEMBLY	563.47	
50 89 83 20-0049 EA CALTRANS 206635 2-1/2" WYE STRAINER ASSEMBLY	853.63	
50 89 83 20-0050 EA CALTRANS 206636 3" WYE STRAINER ASSEMBLY.....	1,028.80	
50 89 83 20-0051 EA CALTRANS 206747 4 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	905.35	
50 89 83 20-0052 EA CALTRANS 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,273.89	
50 89 83 20-0053 EA CALTRANS 206751 12 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,715.47	
50 89 83 20-0054 EA CALTRANS 206757 16-18 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	2,204.76	
50 89 83 20-0055 EA CALTRANS 206758 24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	2,910.14	

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50 89 83 20-0056 EA CALTRANS 206759 30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	3,612.49	
50 89 83 20-0057 LF CALTRANS 207050 1/2" COPPER PIPE (SUPPLY LINE).....	13.31	
For >1,000, Deduct	-0.67	
50 89 83 20-0058 LF CALTRANS 207051 3/4" COPPER PIPE (SUPPLY LINE).....	18.10	
For >1,000, Deduct	-0.91	
50 89 83 20-0059 LF CALTRANS 207052 1" COPPER PIPE (SUPPLY LINE).....	22.31	
For >1,000, Deduct	-1.12	
50 89 83 20-0060 LF CALTRANS 207053 1 1/4" COPPER PIPE (SUPPLY LINE).....	28.44	
For >1,000, Deduct	-1.42	
50 89 83 20-0061 LF CALTRANS 207054 1 1/2" COPPER PIPE (SUPPLY LINE).....	34.40	
For >1,000, Deduct	-1.72	
50 89 83 20-0062 LF CALTRANS 207055 2" COPPER PIPE (SUPPLY LINE).....	47.58	
For >1,000, Deduct	-2.38	
50 89 83 20-0063 LF CALTRANS 207056 3" COPPER PIPE (SUPPLY LINE).....	94.18	
For >1,000, Deduct	-4.71	
50 89 83 20-0064 LF CALTRANS 207057 4" COPPER PIPE (SUPPLY LINE).....	151.65	
For >1,000, Deduct	-7.58	
50 89 83 20-0065 LF CALTRANS 207058 2 1/2" COPPER PIPE (SUPPLY LINE).....	65.14	
For >1,000, Deduct	-3.26	
50 89 83 20-0066 LF CALTRANS 208001 1/2" GALVANIZED PIPE (SUPPLY LINE).....	14.59	
For >1,000, Deduct	-0.73	
50 89 83 20-0067 LF CALTRANS 208002 3/4" GALVANIZED PIPE (SUPPLY LINE).....	16.70	
For >1,000, Deduct	-0.84	
50 89 83 20-0068 LF CALTRANS 208003 1" GALVANIZED PIPE (SUPPLY LINE).....	19.79	
For >1,000, Deduct	-0.99	
50 89 83 20-0069 LF CALTRANS 208004 1 1/4" GALVANIZED PIPE (SUPPLY LINE).....	23.32	
For >1,000, Deduct	-1.17	
50 89 83 20-0070 LF CALTRANS 208005 1 1/2" GALVANIZED PIPE (SUPPLY LINE).....	27.09	
For >1,000, Deduct	-1.35	
50 89 83 20-0071 LF CALTRANS 208006 2" GALVANIZED PIPE (SUPPLY LINE).....	34.10	
For >1,000, Deduct	-1.71	
50 89 83 20-0072 LF CALTRANS 208007 2 1/2" GALVANIZED PIPE (SUPPLY LINE).....	50.22	
For >1,000, Deduct	-2.51	
50 89 83 20-0073 LF CALTRANS 208008 3" GALVANIZED PIPE (SUPPLY LINE).....	69.96	
For >1,000, Deduct	-3.50	
50 89 83 20-0074 LF CALTRANS 208009 4" GALVANIZED PIPE (SUPPLY LINE).....	100.78	
For >1,000, Deduct	-5.04	
50 89 83 20-0075 LF CALTRANS 208026 2" SUPPLY LINE (BRIDGE).....	62.12	
50 89 83 20-0076 LF CALTRANS 208027 2 1/2" SUPPLY LINE (BRIDGE).....	78.85	
50 89 83 20-0077 LF CALTRANS 208028 3" SUPPLY LINE (BRIDGE).....	97.63	
50 89 83 20-0078 LF CALTRANS 208029 4" SUPPLY LINE (BRIDGE).....	143.47	
50 89 83 20-0079 LF CALTRANS 208030 6" SUPPLY LINE (BRIDGE).....	366.03	
50 89 83 20-0080 LF CALTRANS 208033 8" SUPPLY LINE (BRIDGE).....	783.26	
50 89 83 20-0081 LF CALTRANS 208042 2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	41.29	
50 89 83 20-0082 LF CALTRANS 208043 2 1/2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	58.34	
50 89 83 20-0083 LF CALTRANS 208044 3" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	72.49	
50 89 83 20-0084 LF CALTRANS 208046 4" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	103.79	
50 89 83 20-0085 LF CALTRANS 208220 1/2" DRIP IRRIGATION TUBING.....	2.84	
50 89 83 20-0086 LF CALTRANS 208221 3/4" DRIP IRRIGATION TUBING.....	3.04	
50 89 83 20-0087 EA CALTRANS 208301 IRRIGATION CONTROLLER ENCLOSURE CABINET.....	4,122.51	
50 89 83 20-0088 EA CALTRANS 208422 3/4" BACKFLOW PREVENTER ASSEMBLY.....	2,860.50	
50 89 83 20-0089 EA CALTRANS 208423 1" BACKFLOW PREVENTER ASSEMBLY.....	2,991.33	
50 89 83 20-0090 EA CALTRANS 208424 1 1/4" BACKFLOW PREVENTER ASSEMBLY.....	3,910.82	
50 89 83 20-0091 EA CALTRANS 208425 1 1/2" BACKFLOW PREVENTER ASSEMBLY.....	4,194.39	
50 89 83 20-0092 EA CALTRANS 208426 2" BACKFLOW PREVENTER ASSEMBLY.....	5,636.80	
50 89 83 20-0093 EA CALTRANS 208427 2 1/2" BACKFLOW PREVENTER ASSEMBLY.....	11,222.87	
50 89 83 20-0094 EA CALTRANS 208428 3" BACKFLOW PREVENTER ASSEMBLY.....	13,064.63	
50 89 83 20-0095 EA CALTRANS 208429 4" BACKFLOW PREVENTER ASSEMBLY.....	14,061.45	
50 89 83 20-0096 EA CALTRANS 208440 BACKFLOW PREVENTER ENCLOSURE.....	4,478.73	
50 89 83 20-0097 EA CALTRANS 208442 FLOW SENSOR.....	1,816.84	
50 89 83 20-0098 EA CALTRANS 208447 POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN).....	88.77	14.96
50 89 83 20-0099 EA CALTRANS 208448 RISER SPRINKLER ASSEMBLY.....	57.20	14.96
50 89 83 20-0100 EA CALTRANS 208449 POP-UP SPRINKLER ASSEMBLY.....	56.29	14.96
50 89 83 20-0101 EA CALTRANS 208562 CAM COUPLER ASSEMBLY.....	506.99	
50 89 83 20-0102 EA CALTRANS 208569 1/2" GATE VALVE.....	331.72	
50 89 83 20-0103 EA CALTRANS 208570 3/4" GATE VALVE.....	353.09	
50 89 83 20-0104 EA CALTRANS 208572 1" GATE VALVE.....	385.69	
50 89 83 20-0105 EA CALTRANS 208573 1 1/4" GATE VALVE.....	425.68	
50 89 83 20-0106 EA CALTRANS 208574 1 1/2" GATE VALVE.....	453.63	
50 89 83 20-0107 EA CALTRANS 208575 2" GATE VALVE.....	516.83	
50 89 83 20-0108 EA CALTRANS 208576 2 1/2" GATE VALVE.....	833.48	
50 89 83 20-0109 EA CALTRANS 208588 3" GATE VALVE.....	1,464.55	
50 89 83 20-0110 EA CALTRANS 208589 4" GATE VALVE.....	1,962.32	
50 89 83 20-0111 EA CALTRANS 208590 6" GATE VALVE.....	2,807.17	
50 89 83 20-0112 EA CALTRANS 208591 8" GATE VALVE.....	4,281.34	
50 89 83 20-0113 LF CALTRANS 208593 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.19	
For >1,000, Deduct	-0.36	
For Schedule 80, Add	0.17	
50 89 83 20-0114 LF CALTRANS 208594 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.36	
For >1,000, Deduct	-0.37	
For Schedule 80, Add	0.21	



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50 89 83 20-0115 LF CALTRANS 208595 1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	8.26	
For >1,000, Deduct	-0.41	
For Schedule 80, Add	0.34	
50 89 83 20-0116 LF CALTRANS 208596 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.73	
For >1,000, Deduct	-0.49	
For Schedule 80, Add	0.51	
50 89 83 20-0117 LF CALTRANS 208597 1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.94	
For >1,000, Deduct	-0.50	
For Schedule 80, Add	0.68	
50 89 83 20-0118 LF CALTRANS 208598 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	11.68	
For >1,000, Deduct	-0.58	
For Schedule 80, Add	1.14	
50 89 83 20-0119 LF CALTRANS 208599 2 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	13.98	
For >1,000, Deduct	-0.70	
For Schedule 80, Add	1.48	
50 89 83 20-0120 LF CALTRANS 208600 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	18.08	
For >1,000, Deduct	-0.90	
For Schedule 80, Add	2.08	
50 89 83 20-0121 LF CALTRANS 208601 4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	22.61	
For >1,000, Deduct	-1.13	
For Schedule 80, Add	3.18	
50 89 83 20-0122 LF CALTRANS 208602 6" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	30.69	
For >1,000, Deduct	-1.53	
For Schedule 80, Add	7.08	
50 89 83 20-0123 LF CALTRANS 208603 8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	36.71	
For >1,000, Deduct	-1.84	
For Schedule 80, Add	10.85	
50 89 83 20-0124 LF CALTRANS 208604 10" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	73.07	
For >1,000, Deduct	-3.65	
For Schedule 80, Add	33.73	
50 89 83 20-0125 LF CALTRANS 208605 2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	12.27	
For >1,000, Deduct	-0.61	
50 89 83 20-0126 LF CALTRANS 208606 2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	14.94	
For >1,000, Deduct	-0.75	
50 89 83 20-0127 LF CALTRANS 208607 3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	18.08	
For >1,000, Deduct	-0.90	
50 89 83 20-0128 LF CALTRANS 208608 4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	22.61	
For >1,000, Deduct	-1.13	
50 89 83 20-0129 LF CALTRANS 208609 6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE).....	31.12	
For >1,000, Deduct	-1.56	
50 89 83 20-0130 EA CALTRANS 208631 3/4" PRESSURE RELIEF VALVE.....	1,097.32	
50 89 83 20-0131 EA CALTRANS 208632 1 1/2" PRESSURE RELIEF VALVE.....	1,589.00	
50 89 83 20-0132 EA CALTRANS 208633 1" PRESSURE RELIEF VALVE.....	1,302.54	
50 89 83 20-0133 EA CALTRANS 208634 2" PRESSURE RELIEF VALVE.....	1,793.36	
50 89 83 20-0134 EA CALTRANS 208640 PRESSURE REGULATING VALVE (3/4").....	302.11	
50 89 83 20-0135 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1").....	395.97	
50 89 83 20-0136 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/4").....	674.97	
50 89 83 20-0137 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/2").....	914.91	
50 89 83 20-0138 EA CALTRANS 208640 PRESSURE REGULATING VALVE (2").....	1,312.05	
50 89 83 20-0139 EA CALTRANS 208649 QUICK COUPLING VALVE.....	553.69	
50 89 83 20-0140 EA CALTRANS 208670 1/2" CHECK VALVE.....	347.06	
50 89 83 20-0141 EA CALTRANS 208670 3/4" CHECK VALVE.....	372.29	
50 89 83 20-0142 EA CALTRANS 208670 1" CHECK VALVE.....	405.66	
50 89 83 20-0143 EA CALTRANS 208670 1 1/4" CHECK VALVE.....	457.05	
50 89 83 20-0144 EA CALTRANS 208670 1 1/2" CHECK VALVE.....	508.98	
50 89 83 20-0145 EA CALTRANS 208670 2" CHECK VALVE.....	579.72	
50 89 83 20-0146 EA CALTRANS 208670 2 1/2" CHECK VALVE.....	900.49	
50 89 83 20-0147 EA CALTRANS 208670 3" CHECK VALVE.....	1,543.77	
50 89 83 20-0148 EA CALTRANS 208670 4" CHECK VALVE.....	2,286.93	
50 89 83 20-0149 EA CALTRANS 208670 6" CHECK VALVE.....	3,490.25	
50 89 83 20-0150 EA CALTRANS 208670 8" CHECK VALVE.....	7,695.46	
50 89 83 20-0151 EA CALTRANS 208683 1/2" BALL VALVE.....	313.25	
50 89 83 20-0152 EA CALTRANS 208683 3/4" BALL VALVE.....	344.34	
50 89 83 20-0153 EA CALTRANS 208683 1" BALL VALVE.....	356.49	
50 89 83 20-0154 EA CALTRANS 208683 1 1/4" BALL VALVE.....	396.63	
50 89 83 20-0155 EA CALTRANS 208683 1 1/2" BALL VALVE.....	417.92	
50 89 83 20-0156 EA CALTRANS 208683 2" BALL VALVE.....	460.43	
50 89 83 20-0157 EA CALTRANS 208683 2 1/2" BALL VALVE.....	517.42	
50 89 83 20-0158 LF CALTRANS 208690 PVC PIPE CONDUIT (SLEEVE).....	36.71	
For >1,000, Deduct	-1.84	
50 89 83 20-0159 LF CALTRANS 208702 8" ABS COMPOSITE PIPE CONDUIT.....	50.03	
For >1,000, Deduct	-2.50	
50 89 83 20-0160 LF CALTRANS 208703 10" ABS COMPOSITE PIPE CONDUIT.....	70.72	
For >1,000, Deduct	-3.54	
50 89 83 20-0161 LF CALTRANS 208738 8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT.....	27.38	
50 89 83 20-0162 LF CALTRANS 208739 10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT.....	34.90	
50 89 83 20-0163 LF CALTRANS 208740 12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT.....	40.55	
50 89 83 20-0164 LF CALTRANS 208756 6" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	31.22	
50 89 83 20-0165 LF CALTRANS 208758 8" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	38.94	
50 89 83 20-0166 LF CALTRANS 208760 10" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	48.25	
50 89 83 20-0167 LF CALTRANS 208762 12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	53.67	
50 89 83 20-0168 LF CALTRANS 208813 1 1/4" WELDED STEEL PIPE CONDUIT.....	26.95	
For >1,000, Deduct	-1.35	

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50 89 83 20-0169 LF CALTRANS 208814 1 1/2" WELDED STEEL PIPE CONDUIT.....	31.39	
For >1,000, Deduct	-1.57	
50 89 83 20-0170 LF CALTRANS 208815 2" WELDED STEEL PIPE CONDUIT	36.20	
For >1,000, Deduct	-1.81	
50 89 83 20-0171 LF CALTRANS 208816 3" WELDED STEEL PIPE CONDUIT	48.65	
For >1,000, Deduct	-2.43	
50 89 83 20-0172 LF CALTRANS 208817 4" WELDED STEEL PIPE CONDUIT	65.07	
For >1,000, Deduct	-3.25	
50 89 83 20-0173 LF CALTRANS 208818 6" WELDED STEEL PIPE CONDUIT	91.25	
For >1,000, Deduct	-4.56	
50 89 83 20-0174 LF CALTRANS 208819 8" WELDED STEEL PIPE CONDUIT	129.84	
For >1,000, Deduct	-6.49	
50 89 83 20-0175 LF CALTRANS 208820 10" WELDED STEEL PIPE CONDUIT	169.84	
For >1,000, Deduct	-8.49	
50 89 83 20-0176 LF CALTRANS 208821 12" WELDED STEEL PIPE CONDUIT	215.22	
For >1,000, Deduct	-10.76	
50 89 83 21 EROSION CONTROL (50 89 83)		
Note: Includes applying permanent erosion control measures to the soil surface per CALTRAN Standard.		
50 89 83 21-0001 EA CALTRANS 210010 MOVE-IN/MOVE-OUT (EROSION CONTROL).....	397.28	
50 89 83 21-0002 CY CALTRANS 210110 IMPORTED TOPSOIL (CY).....	74.99	
50 89 83 21-0003 TON CALTRANS 210111 IMPORTED TOPSOIL (TON).....	93.72	
50 89 83 21-0004 SF CALTRANS 210212 DRY SEED (SQFT).....	0.12	
50 89 83 21-0005 ACR CALTRANS 210213 DRY SEED (ACRE).....	4,970.17	
For >5 To 20, Deduct	-353.10	
For >20 To 45, Deduct	-686.54	
For >45, Deduct	-1,124.58	
50 89 83 21-0006 SY CALTRANS 210222 DRILL SEED (SQYD).....	0.40	
50 89 83 21-0007 ACR CALTRANS 210223 DRILL SEED (ACRE).....	1,955.92	
50 89 83 21-0008 SF CALTRANS 210252 BONDED FIBER MATRIX (SQFT).....	0.11	
50 89 83 21-0009 ACR CALTRANS 210253 BONDED FIBER MATRIX (ACRE).....	4,718.54	
50 89 83 21-0010 SF CALTRANS 210260 ROLLED EROSION CONTROL PRODUCT (JUTE MESH).....	0.55	
50 89 83 21-0011 SF CALTRANS 210270 ROLLED EROSION CONTROL PRODUCT (NETTING).....	2.17	
50 89 83 21-0012 SF CALTRANS 210280 ROLLED EROSION CONTROL PRODUCT (BLANKET).....	0.72	
50 89 83 21-0013 SF CALTRANS 210290 ROLLED EROSION CONTROL PRODUCT (TRM).....	1.71	
50 89 83 21-0014 SF CALTRANS 210300 HYDROMULCH.....	0.12	
50 89 83 21-0015 LF CALTRANS 210350 FIBER ROLL.....	8.81	
Note: 12" Diameter, Type 1		
For >1,000 To 10,000, Deduct	-1.01	
For >10,000, Deduct	-1.71	
For 9" Diameter, Deduct	-0.98	
50 89 83 21-0016 LF CALTRANS 210350 FIBER ROLL.....	6.86	
Note: 12" Diameter, Type 2		
For >1,000 To 10,000, Deduct	-0.72	
For >10,000, Deduct	-1.22	
For 9" Diameter, Deduct	-0.98	
50 89 83 21-0017 LF CALTRANS 210360 COMPOST SOCK.....	12.31	
50 89 83 21-0018 SF CALTRANS 210420 STRAW.....	0.24	
50 89 83 21-0019 SF CALTRANS 210430 HYDROSEED.....	0.12	
50 89 83 21-0020 CY CALTRANS 210610 COMPOST (CY).....	101.78	
For >100 To 1,000, Deduct	-17.12	
For >1,000, Deduct	-26.22	
50 89 83 21-0021 SF CALTRANS 210630 INCORPORATE MATERIALS.....	0.06	
50 89 84 CALTRANS DIVISION IV - SUBBASES AND BASES (50 89 80)		
50 89 84 24 STABILIZED SOILS (50 89 84)		
50 89 84 24-0001 SY CALTRANS 240105 LIME STABILIZED SOIL.....	12.27	
For 4% Lime Instead Of 5%, Deduct	-0.32	
For 6% Lime Instead Of 5%, Add	0.32	
50 89 84 24-0002 SY CALTRANS 240300 CEMENT STABILIZED SOIL.....	12.51	
50 89 84 25 AGGREGATE SUBBASES (50 89 84)		
Note: Includes aggregate, placing aggregate subbase, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.		
50 89 84 25-0001 CY CALTRANS 250101 CLASS 1 AGGREGATE SUBBASE.....	114.07	
50 89 84 25-0002 CY CALTRANS 250201 CLASS 2 AGGREGATE SUBBASE.....	113.30	
50 89 84 25-0003 CY CALTRANS 250301 CLASS 3 AGGREGATE SUBBASE.....	108.99	
50 89 84 25-0004 CY CALTRANS 250401 CLASS 4 AGGREGATE SUBBASE.....	108.94	
50 89 84 25-0005 CY CALTRANS 250501 CLASS 5 AGGREGATE SUBBASE.....	108.89	
50 89 84 26 AGGREGATE BASES (50 89 84)		
Note: Includes aggregate, placing aggregate, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.		
50 89 84 26-0001 CY CALTRANS 260200 AGGREGATE BASE.....	113.63	
For Recycled Aggregate Base, Deduct	-6.20	
50 89 84 26-0002 TON CALTRANS 260202 CLASS 2 AGGREGATE BASE (TON).....	112.71	
50 89 84 26-0003 CY CALTRANS 260203 CLASS 2 AGGREGATE BASE (CY).....	113.30	
50 89 84 26-0004 TON CALTRANS 260302 CLASS 3 AGGREGATE BASE (TON).....	106.83	



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CALTRANS Construction Performance Requirements			50 89 80

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 84 26-0005 CY CALTRANS 260303 CLASS 3 AGGREGATE BASE (CY)	108.99	
50 89 84 27 CEMENT TREATED BASES (50 89 84)		
Note: Includes aggregate, Type II portland cement, mixing, placing cement treated base, spreading, compaction, contact joints and curing per CALTRANS Standard.		
50 89 84 27-0001 TON CALTRANS 270002 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (TON)	58.78	
For Up To 500, Add	17.34	
For >500 To 1,000, Add	5.88	
For >5,000 To 10,000, Deduct	-2.23	
For >10,000, Deduct	-3.82	
50 89 84 27-0002 CY CALTRANS 270003 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (CY)	79.71	
For Up To 500, Add	23.52	
For >500 To 1,000, Add	7.97	
For >5,000 To 10,000, Deduct	-3.03	
For >10,000, Deduct	-5.18	
50 89 84 27-0003 TON CALTRANS 270013 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (TON)	48.53	
For Up To 500, Add	14.26	
For >500 To 1,000, Add	4.85	
For >5,000 To 10,000, Deduct	-1.84	
For >10,000, Deduct	-3.15	
50 89 84 27-0004 CY CALTRANS 270014 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (CY)	69.47	
For Up To 500, Add	20.45	
For >500 To 1,000, Add	6.95	
For >5,000 To 10,000, Deduct	-2.64	
For >10,000, Deduct	-4.52	
50 89 84 28 CONCRETE BASES (50 89 84)		
Note: Includes constructing concrete bases and placing concrete per CALTRANS Standard.		
50 89 84 28-0001 CY CALTRANS 280001 CONCRETE BASE	267.10	
50 89 84 29 TREATED PERMEABLE BASES (50 89 84)		
Note: Includes constructing treated permeable bases, spreading, and placement per CALTRANS Standard.		
50 89 84 29-0001 CY CALTRANS 290301 CEMENT TREATED PERMEABLE BASE	1,042.07	
For >5,000 To 30,000, Deduct	-111.21	
For >30,000 To 100,000, Deduct	-203.38	
For >100,000, Deduct	-252.57	
50 89 84 30 RECLAIMED PAVEMENT (50 89 84)		
Note: Includes constructing reclaimed pavement bases, surface preparation, grading, compaction, finishing and placement per CALTRANS Standard.		
50 89 84 30-0001 SF CALTRANS 300100 FULL DEPTH RECLAMATION-FOAMED ASPHALT	28.45	
50 89 84 30-0002 SY CALTRANS 303000 PULVERIZED ROADBED	5.90	
50 89 85 CALTRANS DIVISION V - SURFACINGS AND PAVEMENTS (50 89 80)		
50 89 85 37 BITUMINOUS SEALS (50 89 85)		
Note: Includes applying bituminous seals, surface preparation, placement, spreading, finishing and seal coat per CALTRANS Standard.		
50 89 85 37-0001 SY CALTRANS 370001 SAND COVER (SEAL)	1.65	
50 89 85 37-0002 SY CALTRANS 374002 ASPHALTIC EMULSION (FOG SEAL COAT)	0.95	
50 89 85 37-0003 LNMI CALTRANS 374207 CRACK TREATMENT	7,364.77	
50 89 85 37-0004 SY CALTRANS 374491 NON-POLYMER ASPHALTIC EMULSION (SEAL COAT)	5.24	
50 89 85 37-0005 SY CALTRANS 374493 POLYMER ASPHALTIC EMULSION (SEAL COAT)	10.98	
50 89 85 37-0006 TON CALTRANS 375001 SCREENINGS	81.50	
For Up To 14, Add	22.06	
For >14 To 35, Add	8.15	
50 89 85 37-0007 SY CALTRANS 375009 TACK COAT (SEAL)	1.43	
For Up To 150, Add	0.32	
For >150 To 300, Add	0.14	
For >300 To 500, Add	0.07	
For >3,500 To 5,000, Deduct	-0.04	
For >5,000, Deduct	-0.10	
50 89 85 37-0008 SY CALTRANS 377501 SLURRY SEAL (TYPE I)	3.36	
Note: 1/8" thick.		
For Each 0.5% Of Latex Addition, Add	0.34	
50 89 85 37-0009 SY CALTRANS 377501 SLURRY SEAL (TYPE II)	4.42	
Note: 1/4" thick, 14 to 18 Lb./SY.		
For Each 0.5% Of Latex Addition, Add	0.51	
50 89 85 37-0010 SY CALTRANS 377501 SLURRY SEAL (TYPE III)	5.73	
Note: 3/8" thick, 25 to 30 Lb./SY.		
For Each 0.5% Of Latex Addition, Add	0.83	
50 89 85 37-0011 SY CALTRANS 378000 MICRO-SURFACING	11.78	
50 89 85 39 ASPHALT CONCRETE (50 89 85)		
Note: Includes hot mix asphalt, preparation, placement, finishing, compaction and testing per CALTRANS Standard.		
50 89 85 39-0001 TON CALTRANS 390100 PRIME COAT	2,077.53	
50 89 85 39-0002 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (Up To 25)	180.54	
50 89 85 39-0003 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>25 To 100)	170.32	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 39-0004 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>100-250).....	154.19	
50 89 85 39-0005 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>250).....	146.48	
50 89 85 39-0006 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (UP TO 25).....	283.06	
50 89 85 39-0007 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>25 - 100).....	247.24	
50 89 85 39-0008 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>100 - 250).....	212.20	
50 89 85 39-0009 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>250).....	180.02	
50 89 85 39-0010 TON CALTRANS 390136 MINOR HOT MIX ASPHALT (UP TO 25).....	292.19	
50 89 85 39-0011 TON CALTRANS 390137 RUBBERIZED HOT MIX ASPHALT (GAP GRADED).....	182.42	
Note: Includes placement, rolling, finishing and sweeping.		
50 89 85 39-0012 SY CALTRANS 393004 GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC).....	2.11	
Note: 4.1 Oz/SY, 100# 1-Inch Grab Tensile, Non-woven Polypropylene		
For Up To 50, Add	0.47	
For >50 To 150, Add	0.35	
For >150 To 250, Add	0.23	
For >250 To 500, Add	0.11	
50 89 85 39-0013 LF CALTRANS 394072 PLACE HOT MIX ASPHALT DIKE (TYPE B).....	10.05	
50 89 85 39-0014 LF CALTRANS 394073 PLACE HOT MIX ASPHALT DIKE (TYPE A).....	7.37	
50 89 85 39-0015 LF CALTRANS 394074 PLACE HOT MIX ASPHALT DIKE (TYPE C).....	3.99	
50 89 85 39-0016 LF CALTRANS 394075 PLACE HOT MIX ASPHALT DIKE (TYPE D).....	16.08	
50 89 85 39-0017 LF CALTRANS 394076 PLACE HOT MIX ASPHALT DIKE (TYPE E).....	10.40	
50 89 85 39-0018 LF CALTRANS 394077 PLACE HOT MIX ASPHALT DIKE (TYPE F).....	5.83	
50 89 85 39-0019 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) Up To 2".....	17.23	
For Up To 500, Add	2.78	
For >500 To 1,000, Add	1.59	
For >5,000 To 10,000, Deduct	-0.69	
For >10,000 To 24,000, Deduct	-1.26	
For >24,000 To 48,000, Deduct	-1.94	
For >48,000, Deduct	-2.80	
50 89 85 39-0020 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >2" To 3".....	23.92	
For Up To 300, Add	3.63	
For >300 To 600, Add	2.91	
For >3,000 To 6,000, Deduct	-0.99	
For >6,000 To 16,000, Deduct	-1.81	
For >16,000 To 32,000, Deduct	-2.80	
For >32,000, Deduct	-4.03	
50 89 85 39-0021 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >3" To 4".....	32.29	
For Up To 250, Add	4.54	
For >250 To 500, Add	2.53	
For >2,500 To 5,000, Deduct	-1.40	
For >5,000 To 12,000, Deduct	-2.54	
For >12,000 To 24,000, Deduct	-3.94	
For >24,000, Deduct	-5.65	
50 89 85 39-0022 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >4" To 6".....	48.43	
For Up To 160, Add	6.82	
For >160 To 320, Add	3.79	
For >1,600 To 3,200, Deduct	-2.09	
For >3,200 To 8,000, Deduct	-3.81	
For >8,000 To 16,000, Deduct	-5.90	
For >16,000, Deduct	-8.48	
50 89 85 39-0023 TON CALTRANS 395020 RUBBERIZED HOT MIX ASPHALT-GAP GRADED (BONDED WEARING COURSE).....	182.42	
50 89 85 39-0024 TON CALTRANS 397005 TACK COAT.....	1,265.64	
50 89 85 39-0025 SF CALTRANS 398000 REMOVE ASPHALT CONCRETE PAVEMENT (CY).....	216.89	
For >500 To 1,000, Deduct	-21.69	
For >1,000 To 2,500, Deduct	-39.04	
For >2,500 To 5,000, Deduct	-56.39	
For >5,000 To 10,000, Deduct	-73.74	
For >10,000, Deduct	-91.09	
50 89 85 39-0026 SF CALTRANS 398001 REMOVE ASPHALT CONCRETE PAVEMENT (SQFT).....	3.67	
For >500 To 1,000, Deduct	-0.37	
For >1,000 To 2,500, Deduct	-0.66	
For >2,500 To 5,000, Deduct	-0.95	
For >5,000 To 10,000, Deduct	-1.25	
For >10,000, Deduct	-1.54	
50 89 85 39-0027 LF CALTRANS 398100 REMOVE ASPHALT CONCRETE DIKE.....	5.98	
50 89 85 39-0028 SY CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (Up To 3").....	5.29	
For Up To 2,500, Add	3.97	
For >2,500 To 5,000, Add	1.32	
For >10,000 To 25,000, Deduct	-0.53	
For >25,000, Deduct	-0.79	
50 89 85 39-0029 SY CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (>3" To 6").....	7.05	
For Up To 2,500, Add	5.29	
For >2,500 To 5,000, Add	1.76	
For >10,000 To 25,000, Deduct	-0.71	
For >25,000, Deduct	-1.06	

50 89 85 40 CONCRETE PAVEMENT (50 89 85)

Note: Includes concrete pavement, reinforcing, placement, finishing, compaction and testing per CALTRANS Standard.

50 89 85 40-0001 CY CALTRANS 400050 CONTINUOUSLY REINFORCED CONCRETE PAVEMENT.....	413.69	
For >1,000 To 5,000, Deduct	-20.00	
For >5,000, Deduct	-50.69	
50 89 85 40-0002 CY CALTRANS 401050 JOINTED PLAIN CONCRETE PAVEMENT.....	396.44	
For >1,000 To 5,000, Deduct	-20.00	
For >5,000, Deduct	-49.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 41 EXISTING CONCRETE PAVEMENT (50 89 85)		
Note: Includes work on existing concrete pavement, placement and finishing per CALTRAN Standard.		
50 89 85 41-0001 EA CALTRANS 410096 DRILL AND BOND (DOWEL BAR).....	35.42	
50 89 85 41-0002 SY CALTRANS 410121 SPALL REPAIR (FAST-SETTING CONCRETE).....	446.45	
For Up To 100, Add	627.48	
For >100 To 250, Add	313.74	
50 89 85 41-0003 LF CALTRANS 414220 REPLACE JOINT SEAL (ASPHALT RUBBER).....	9.93	
50 89 85 41-0004 LF CALTRANS 414221 REPLACE JOINT SEAL (SILICONE).....	9.54	
50 89 85 41-0005 LF CALTRANS 414222 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 7/16" TO 13/16").....	17.05	
50 89 85 41-0006 LF CALTRANS 414223 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1" TO 1-1/4").....	20.21	
50 89 85 41-0007 LF CALTRANS 414224 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1-5/8" TO 2").....	39.84	
50 89 85 41-0008 LF CALTRANS 414241 ISOLATION JOINT SEAL (SILICONE).....	13.98	
50 89 85 41-0009 LF CALTRANS 414242 ISOLATION JOINT SEAL (PREFORMED COMPRESSION).....	14.48	
50 89 85 41-0010 SY CALTRANS 416101 PAVEMENT TRANSITION TAPER.....	65.32	
For Up To 100, Add	26.16	
For >100 To 250, Add	14.71	
For >250 To 500, Add	7.35	
For >1,000 To 2,000, Deduct	-1.63	
For >2,000 To 5,000, Deduct	-3.26	
For >5,000 To 10,000, Deduct	-4.90	
For >10,000 To 20,000, Deduct	-6.53	
For >20,000, Deduct	-8.16	
50 89 85 41-0011 CY CALTRANS 418002 REMOVE CONCRETE PAVEMENT AND BASE.....	53.88	
50 89 85 41-0012 SY CALTRANS 418005 REMOVE CONCRETE PAVEMENT (SQYD).....	26.29	
For >500 To 1,000, Deduct	-2.63	
For >1,000 To 2,500, Deduct	-4.73	
For >2,500 To 5,000, Deduct	-6.84	
For >5,000 To 10,000, Deduct	-8.94	
For >10,000, Deduct	-11.04	
50 89 85 42 GROOVE AND GRIND CONCRETE (50 89 85)		
Note: Includes grooving and grinding concrete roadway surfaces per CALTRAN Standard.		
50 89 85 42-0001 SY CALTRANS 420102 GROOVE EXISTING CONCRETE PAVEMENT.....	2.03	
50 89 85 42-0002 SY CALTRANS 420104 GROOVE EXISTING BRIDGE DECK.....	3.04	
50 89 85 42-0003 SY CALTRANS 420201 GRIND EXISTING CONCRETE PAVEMENT.....	5.29	
For Up To 2,500, Add	3.97	
For >2,500 To 5,000, Add	1.32	
For >10,000 To 25,000, Deduct	-0.53	
For >25,000, Deduct	-0.79	
50 89 85 42-0004 SY CALTRANS 420203 GRIND EXISTING BRIDGE DECK.....	33.46	
For >100 To 1,000, Deduct	-16.73	
For >1,000, Deduct	-25.10	
50 89 86 CALTRANS DIVISION VI - STRUCTURES (50 89 86)		
50 89 86 47 EARTH RETAINING SYSTEMS (50 89 86)		
50 89 86 47-0001 SF CALTRANS 475010 RETAINING WALL (MASONRY WALL).....	76.26	9.93
For >3:1 Sloped Soil At Top, Add	4.79	
50 89 86 56 OVERHEAD SIGN STRUCTURES, STANDARDS, AND POLES (50 89 86)		
50 89 86 56-0001 SF CALTRANS 560248 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED).....	24.68	26.42
50 89 86 60 EXISTING STRUCTURES (50 89 86)		
50 89 86 60-0001 LF CALTRANS 600063 CORE CONCRETE (1").....	143.03	
For Horizontal Cores, Add	28.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	56.55	
50 89 86 60-0002 LF CALTRANS 600064 CORE CONCRETE (2").....	176.18	
For Horizontal Cores, Add	34.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	69.81	
50 89 86 60-0003 LF CALTRANS 600065 CORE CONCRETE (3").....	193.39	
For Horizontal Cores, Add	38.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	76.44	
50 89 86 60-0004 LF CALTRANS 600066 CORE CONCRETE (4").....	257.78	
For Horizontal Cores, Add	50.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	101.93	
50 89 86 60-0005 LF CALTRANS 600067 CORE CONCRETE (5").....	296.85	
For Horizontal Cores, Add	58.64	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	117.28	
50 89 86 60-0006 LF CALTRANS 600068 CORE CONCRETE (6").....	335.25	
For Horizontal Cores, Add	66.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	132.64	
50 89 86 60-0007 LF CALTRANS 600069 CORE CONCRETE (7").....	438.66	
For Horizontal Cores, Add	86.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	173.48	
50 89 86 60-0008 LF CALTRANS 600070 CORE CONCRETE (8").....	540.77	
For Horizontal Cores, Add	107.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	214.33	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 86 60-0009 LF CALTRANS 600071 CORE CONCRETE (9").....	62.19	
For Horizontal Cores, Add	11.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.24	
50 89 86 60-0010 LF CALTRANS 600072 CORE CONCRETE (10").....	582.56	
For Horizontal Cores, Add	115.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	230.38	
50 89 86 60-0011 LF CALTRANS 600074 CORE CONCRETE (12").....	671.14	
For Horizontal Cores, Add	132.65	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	265.29	
50 89 86 60-0012 LF CALTRANS 600081 CORE CONCRETE (1 1/2").....	158.73	
For Horizontal Cores, Add	31.42	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.83	
50 89 86 60-0013 LF CALTRANS 600083 CORE CONCRETE (2 1/2").....	185.10	
For Horizontal Cores, Add	36.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	73.13	

50 89 87 CALTRANS DIVISION VII - DRAINAGE FACILITIES (50 89 80)**50 89 87 64 PLASTIC PIPE (50 89 87)**

Note: Includes installing plastic pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.

50 89 87 64-0001 LF CALTRANS 641101 12" PLASTIC PIPE	55.35	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 64-0002 LF CALTRANS 641104 15" PLASTIC PIPE	69.34	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 64-0003 LF CALTRANS 641107 18" PLASTIC PIPE	87.53	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 64-0004 LF CALTRANS 641110 21" PLASTIC PIPE	103.89	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 64-0005 LF CALTRANS 641113 24" PLASTIC PIPE	121.02	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 64-0006 LF CALTRANS 641119 30" PLASTIC PIPE	174.23	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 64-0007 LF CALTRANS 641125 36" PLASTIC PIPE	212.41	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 64-0008 LF CALTRANS 641128 42" PLASTIC PIPE	256.69	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 64-0009 LF CALTRANS 641131 48" PLASTIC PIPE	309.25	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	

50 89 87 65 CONCRETE PIPE (50 89 87)

Note: Includes installing concrete pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.

50 89 87 65-0001 LF CALTRANS 650010 12" REINFORCED CONCRETE PIPE	70.05	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.50	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0002 LF CALTRANS 650012 15" REINFORCED CONCRETE PIPE	87.04	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.35	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0003 LF CALTRANS 650014 18" REINFORCED CONCRETE PIPE	99.77	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.99	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0004 LF CALTRANS 650016 21" REINFORCED CONCRETE PIPE	128.25	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.41	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0005 LF CALTRANS 650018 24" REINFORCED CONCRETE PIPE.....	148.31	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.42	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0006 LF CALTRANS 650019 27" REINFORCED CONCRETE PIPE.....	183.64	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.18	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0007 LF CALTRANS 650022 30" REINFORCED CONCRETE PIPE.....	196.35	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.82	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0008 LF CALTRANS 650024 33" REINFORCED CONCRETE PIPE.....	219.08	
Note: Includes 1.19 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.95	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0009 LF CALTRANS 650026 36" REINFORCED CONCRETE PIPE.....	241.62	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.08	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0010 LF CALTRANS 650030 42" REINFORCED CONCRETE PIPE.....	310.66	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-15.53	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0011 LF CALTRANS 650034 48" REINFORCED CONCRETE PIPE.....	372.14	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-18.61	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0012 LF CALTRANS 650038 54" REINFORCED CONCRETE PIPE.....	457.33	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-22.87	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0013 LF CALTRANS 650042 60" REINFORCED CONCRETE PIPE.....	548.74	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-27.44	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0014 LF CALTRANS 650046 66" REINFORCED CONCRETE PIPE.....	813.11	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-40.66	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0015 LF CALTRANS 650050 72" REINFORCED CONCRETE PIPE.....	943.65	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-47.18	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0016 LF CALTRANS 650054 78" REINFORCED CONCRETE PIPE.....	1,126.10	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-56.31	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0017 LF CALTRANS 650058 84" REINFORCED CONCRETE PIPE.....	1,431.71	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-71.59	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0018 LF CALTRANS 650065 96" REINFORCED CONCRETE PIPE.....	1,744.93	
Note: Includes 4.44 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-87.25	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0019 LF CALTRANS 650211 18" REINFORCED CONCRETE PIPE (CLASS II).....	97.67	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.88	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0020 LF CALTRANS 650220 30" REINFORCED CONCRETE PIPE (CLASS II).....	192.14	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.61	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0021 LF CALTRANS 650222 33" REINFORCED CONCRETE PIPE (CLASS II).....	214.12	
Note: Includes 1.19 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.71	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0022 LF CALTRANS 650224 36" REINFORCED CONCRETE PIPE (CLASS II).....	235.91	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.80	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0023 LF CALTRANS 650307 12" REINFORCED CONCRETE PIPE (CLASS III).....	70.05	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.50	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0024 LF CALTRANS 650309 15" REINFORCED CONCRETE PIPE (CLASS III).....	87.04	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.35	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0025 LF CALTRANS 650311 18" REINFORCED CONCRETE PIPE (CLASS III).....	99.77	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.99	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0026 LF CALTRANS 650316 24" REINFORCED CONCRETE PIPE (CLASS III).....	148.31	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.42	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0027 LF CALTRANS 650318 27" REINFORCED CONCRETE PIPE (CLASS III).....	183.64	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.18	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0028 LF CALTRANS 650320 30" REINFORCED CONCRETE PIPE (CLASS III).....	196.35	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.82	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0029 LF CALTRANS 650324 36" REINFORCED CONCRETE PIPE (CLASS III).....	241.62	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.08	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0030 LF CALTRANS 650328 42" REINFORCED CONCRETE PIPE (CLASS III).....	310.66	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-15.53	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0031 LF CALTRANS 650336 54" REINFORCED CONCRETE PIPE (CLASS III).....	457.33	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-22.87	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0032 LF CALTRANS 650407 12" REINFORCED CONCRETE PIPE (CLASS IV).....	73.01	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.65	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0033 LF CALTRANS 650409 15" REINFORCED CONCRETE PIPE (CLASS IV).....	90.83	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.54	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0034 LF CALTRANS 650411 18" REINFORCED CONCRETE PIPE (CLASS IV).....	103.76	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.19	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0035 LF CALTRANS 650416 24" REINFORCED CONCRETE PIPE (CLASS IV).....	154.18	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.71	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0036 LF CALTRANS 650420 30" REINFORCED CONCRETE PIPE (CLASS IV).....	204.36	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.22	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0037 LF CALTRANS 650424 36" REINFORCED CONCRETE PIPE (CLASS IV).....	252.48	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.62	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0038 LF CALTRANS 650432 48" REINFORCED CONCRETE PIPE (CLASS IV).....	391.63	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-19.58	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0039 LF CALTRANS 650436 54" REINFORCED CONCRETE PIPE (CLASS IV)	482.63	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-24.13	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0040 LF CALTRANS 650440 60" REINFORCED CONCRETE PIPE (CLASS IV)	579.86	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-28.99	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0041 LF CALTRANS 650507 12" REINFORCED CONCRETE PIPE (CLASS V)	76.28	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.81	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0042 LF CALTRANS 650511 18" REINFORCED CONCRETE PIPE (CLASS V)	108.16	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.41	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0043 LF CALTRANS 650516 24" REINFORCED CONCRETE PIPE (CLASS V)	160.66	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.03	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0044 LF CALTRANS 650520 30" REINFORCED CONCRETE PIPE (CLASS V)	196.35	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.82	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0045 LF CALTRANS 650524 36" REINFORCED CONCRETE PIPE (CLASS V)	264.48	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-13.22	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0046 LF CALTRANS 650528 42" REINFORCED CONCRETE PIPE (CLASS V)	310.66	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-15.53	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0047 LF CALTRANS 650536 54" REINFORCED CONCRETE PIPE (CLASS V)	510.60	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-25.53	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0048 LF CALTRANS 650540 60" REINFORCED CONCRETE PIPE (CLASS V)	548.74	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-27.44	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0049 LF CALTRANS 650548 72" REINFORCED CONCRETE PIPE (CLASS V)	943.65	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-47.18	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0050 LF CALTRANS 652207 12" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	70.67	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.53	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0051 LF CALTRANS 652215 24" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	149.55	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.48	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0052 LF CALTRANS 652307 12" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	72.38	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.62	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0053 LF CALTRANS 652311 18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	102.92	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.15	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0054 LF CALTRANS 652316 21" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	132.34	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.62	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0055 LF CALTRANS 652314 24" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	152.94	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.65	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	

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50 89 87 65-0056 LF CALTRANS 652320 30" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	202.67	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.13	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0057 LF CALTRANS 652324 36" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	250.19	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.51	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0058 LF CALTRANS 652328 42" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	323.06	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-16.15	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0059 LF CALTRANS 652332 48" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	387.53	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-19.38	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0060 LF CALTRANS 652348 72" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	994.24	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-49.71	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0061 LF CALTRANS 652416 24" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	159.24	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.96	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0062 LF CALTRANS 652420 30" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	211.27	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.56	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0063 LF CALTRANS 652424 36" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	261.85	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-13.09	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0064 LF CALTRANS 652428 42" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	339.93	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-17.00	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0065 LF CALTRANS 652444 66" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	913.68	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-45.68	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0066 LF CALTRANS 654311 18" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....	168.57	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.43	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0067 LF CALTRANS 654316 24" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....	208.37	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.42	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0068 LF CALTRANS 654324 36" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....	277.69	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-13.88	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0069 LF CALTRANS 657213 24" X 38" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS II).....	291.26	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.56	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0070 LF CALTRANS 657329 34" X 53" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS III).....	499.37	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-24.97	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0071 LF CALTRANS 659108 18" NON-REINFORCED CONCRETE PIPE.....	91.37	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.57	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 65-0072 LF CALTRANS 659109 24" NON-REINFORCED CONCRETE PIPE.....	135.97	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.80	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	



Custom Standards And Assemblies			50
CALTRANS Custom Standards And Assemblies			50 89
CALTRANS Construction Performance Requirements			50 89 80

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0073 LF CALTRANS 659110 30" NON-REINFORCED CONCRETE PIPE 179.50 Note: Includes 1.08 CY of excavated material per LF of pipe. For >1,000, Deduct -8.98 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 65-0074 LF CALTRANS 659111 36" NON-REINFORCED CONCRETE PIPE 218.76 Note: Includes 1.30 CY of excavated material per LF of pipe. For >1,000, Deduct -10.94 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66 CORRUGATED METAL PIPE (50 89 87)		
Note: Includes installing corrugated metal pipe and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.		
50 89 87 66-0001 LF CALTRANS 665002 6" CORRUGATED STEEL PIPE (.064" THICK) 31.78 Note: Includes 0.29 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0002 LF CALTRANS 665003 6" CORRUGATED STEEL PIPE (.079" THICK) 34.39 Note: Includes 0.29 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0003 LF CALTRANS 665005 8" CORRUGATED STEEL PIPE (.064" THICK) 42.83 Note: Includes 0.29 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0004 LF CALTRANS 665006 8" CORRUGATED STEEL PIPE (.079" THICK) 46.27 Note: Includes 0.29 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0005 LF CALTRANS 665008 10" CORRUGATED STEEL PIPE (.064" THICK) 52.74 Note: Includes 0.32 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0006 LF CALTRANS 665009 10" CORRUGATED STEEL PIPE (.079" THICK) 55.55 Note: Includes 0.32 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0007 LF CALTRANS 665011 12" CORRUGATED STEEL PIPE (.064" THICK) 58.61 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0008 LF CALTRANS 665012 12" CORRUGATED STEEL PIPE (.079" THICK) 63.09 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0009 LF CALTRANS 665013 15" CORRUGATED STEEL PIPE (.064" THICK) 73.74 Note: Includes 0.53 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0010 LF CALTRANS 665014 15" CORRUGATED STEEL PIPE (.079" THICK) 79.26 Note: Includes 0.53 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0011 LF CALTRANS 665015 15" CORRUGATED STEEL PIPE (.109" THICK) 90.65 Note: Includes 0.53 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0012 LF CALTRANS 665016 18" CORRUGATED STEEL PIPE (.064" THICK) 86.39 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0013 LF CALTRANS 665017 18" CORRUGATED STEEL PIPE (.079" THICK) 93.06 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0014 LF CALTRANS 665018 18" CORRUGATED STEEL PIPE (.109" THICK) 106.87 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0015 LF CALTRANS 665019 21" CORRUGATED STEEL PIPE (.064" THICK) 102.43 Note: Includes 0.80 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0016 LF CALTRANS 665020 21" CORRUGATED STEEL PIPE (.079" THICK) 110.14 Note: Includes 0.80 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0017 LF CALTRANS 665021 21" CORRUGATED STEEL PIPE (.109" THICK) 126.19 Note: Includes 0.80 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		



MINOR		CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0018	LF	CALTRANS 665022 24" CORRUGATED STEEL PIPE (.064" THICK)	113.56		
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0019	LF	CALTRANS 665023 24" CORRUGATED STEEL PIPE (.079" THICK)	122.73		
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0020	LF	CALTRANS 665024 24" CORRUGATED STEEL PIPE (.109" THICK)	141.02		
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0021	LF	CALTRANS 665025 24" CORRUGATED STEEL PIPE (.138" THICK)	156.39		
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0022	LF	CALTRANS 665026 27" CORRUGATED STEEL PIPE (.064" THICK)	131.13		
		Note: Includes 0.98 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0023	LF	CALTRANS 665027 27" CORRUGATED STEEL PIPE (.079" THICK)	141.29		
		Note: Includes 0.98 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0024	LF	CALTRANS 665030 30" CORRUGATED STEEL PIPE (.064" THICK)	151.77		
		Note: Includes 1.08 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0025	LF	CALTRANS 665031 30" CORRUGATED STEEL PIPE (.079" THICK)	162.72		
		Note: Includes 1.08 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0026	LF	CALTRANS 665032 30" CORRUGATED STEEL PIPE (.109" THICK)	185.33		
		Note: Includes 1.08 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0027	LF	CALTRANS 665033 30" CORRUGATED STEEL PIPE (.138" THICK)	204.87		
		Note: Includes 1.08 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0028	LF	CALTRANS 665035 36" CORRUGATED STEEL PIPE (.064" THICK)	200.13		
		Note: Includes 1.30 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0029	LF	CALTRANS 665036 36" CORRUGATED STEEL PIPE (.079" THICK)	213.41		
		Note: Includes 1.30 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0030	LF	CALTRANS 665037 36" CORRUGATED STEEL PIPE (.109" THICK)	240.25		
		Note: Includes 1.30 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0031	LF	CALTRANS 665038 36" CORRUGATED STEEL PIPE (.138" THICK)	265.37		
		Note: Includes 1.30 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0032	LF	CALTRANS 665039 36" CORRUGATED STEEL PIPE (.168" THICK)	295.05		
		Note: Includes 1.30 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0033	LF	CALTRANS 665040 42" CORRUGATED STEEL PIPE (.064" THICK)	233.03		
		Note: Includes 1.53 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0034	LF	CALTRANS 665041 42" CORRUGATED STEEL PIPE (.079" THICK)	248.25		
		Note: Includes 1.53 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0035	LF	CALTRANS 665042 42" CORRUGATED STEEL PIPE (.109" THICK)	279.26		
		Note: Includes 1.53 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0036	LF	CALTRANS 665043 42" COORUGATED STEEL PIPE (.138" THICK)	308.65		
		Note: Includes 1.53 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0037	LF	CALTRANS 665045 48" CORRUGATED STEEL PIPE (.064" THICK)	265.27		
		Note: Includes 1.78 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		
50 89 87 66-0038	LF	CALTRANS 665046 48" CORRUGATED STEEL PIPE (.079" THICK)	282.67		
		Note: Includes 1.78 CY of excavated material per LF of pipe.			
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99		
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0039 LF CALTRANS 665047 48" CORRUGATED STEEL PIPE (.109" THICK) 318.21 Note: Includes 1.78 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0040 LF CALTRANS 665048 48" CORRUGATED STEEL PIPE (.138" THICK) 351.57 Note: Includes 1.78 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0041 LF CALTRANS 665049 48" CORRUGATED STEEL PIPE (.168" THICK) 390.87 Note: Includes 1.78 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0042 LF CALTRANS 665050 54" CORRUGATED STEEL PIPE (.079" THICK) 345.20 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0043 LF CALTRANS 665051 54" CORRUGATED STEEL PIPE (.109" THICK) 384.44 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0044 LF CALTRANS 665052 54" CORRUGATED STEEL PIPE (.138" THICK) 421.80 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0045 LF CALTRANS 665053 54" CORRUGATED STEEL PIPE (.168" THICK) 468.35 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0046 LF CALTRANS 665055 60" CORRUGATED STEEL PIPE (.109" THICK) 444.59 Note: Includes 2.33 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0047 LF CALTRANS 665056 60" CORRUGATED STEEL PIPE (.138" THICK) 486.18 Note: Includes 2.33 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0048 LF CALTRANS 665057 60" CORRUGATED STEEL PIPE (.168" THICK) 537.30 Note: Includes 2.33 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0049 LF CALTRANS 665058 66" CORRUGATED STEEL PIPE (.109" THICK) 533.44 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0050 LF CALTRANS 665059 66" CORRUGATED STEEL PIPE (.138" THICK) 579.14 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0051 LF CALTRANS 665061 72" CORRUGATED STEEL PIPE (.109" THICK) 714.76 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0052 LF CALTRANS 665062 72" CORRUGATED STEEL PIPE (.138" THICK) 779.53 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0053 LF CALTRANS 665064 78" CORRUGATED STEEL PIPE (.138" THICK) 842.49 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0054 LF CALTRANS 665066 84" CORRUGATED STEEL PIPE (.138" THICK) 902.28 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0055 LF CALTRANS 665067 84" CORRUGATED STEEL PIPE (.168" THICK) 999.62 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0056 LF CALTRANS 665068 90" CORRUGATED STEEL PIPE (.138" THICK) 966.56 Note: Includes 4.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0057 LF CALTRANS 665070 96" CORRUGATED STEEL PIPE (.168" THICK) 1,028.56 Note: Includes 4.44 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0058 LF CALTRANS 665075 18" CORRUGATED STEEL PIPE (.138" THICK) 118.33 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0059 LF CALTRANS 665094 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) 129.12 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
50 89 87 66-0060	LF CALTRANS 665103 6" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		37.32		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0061	LF CALTRANS 665105 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		46.66		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0062	LF CALTRANS 665106 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		50.11		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0063	LF CALTRANS 665108 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		57.56		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0064	LF CALTRANS 665109 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		61.90		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0065	LF CALTRANS 665111 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		63.69		
	Note: Includes 0.37 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0066	LF CALTRANS 665112 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		68.18		
	Note: Includes 0.37 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0067	LF CALTRANS 665113 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		80.06		
	Note: Includes 0.53 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0068	LF CALTRANS 665114 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		85.65		
	Note: Includes 0.53 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0069	LF CALTRANS 665115 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		99.35		
	Note: Includes 0.53 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0070	LF CALTRANS 665116 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		94.04		
	Note: Includes 0.64 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0071	LF CALTRANS 665117 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		100.79		
	Note: Includes 0.64 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0072	LF CALTRANS 665118 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		115.73		
	Note: Includes 0.64 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0073	LF CALTRANS 665119 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		111.58		
	Note: Includes 0.80 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0074	LF CALTRANS 665120 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		119.34		
	Note: Includes 0.80 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0075	LF CALTRANS 665121 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		136.66		
	Note: Includes 0.80 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0076	LF CALTRANS 665122 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		119.51		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0077	LF CALTRANS 665123 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		133.14		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0078	LF CALTRANS 665124 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		152.89		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0079	LF CALTRANS 665125 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....		170.84		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0080	LF CALTRANS 665130 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		165.14		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		
50 89 87 66-0081	LF CALTRANS 665131 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		176.08		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.99		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.38		



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50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0103 LF CALTRANS 665156 60" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	527.07	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0104 LF CALTRANS 665157 60" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	587.25	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0105 LF CALTRANS 665158 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....	572.92	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0106 LF CALTRANS 665159 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	626.39	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0107 LF CALTRANS 665160 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	700.05	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0108 LF CALTRANS 665161 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....	779.38	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0109 LF CALTRANS 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	857.11	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0110 LF CALTRANS 665163 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	946.31	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0111 LF CALTRANS 665164 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	924.42	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0112 LF CALTRANS 665165 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	1,020.82	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0113 LF CALTRANS 665166 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	990.77	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0114 LF CALTRANS 665167 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	1,107.59	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0115 LF CALTRANS 665168 90" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	1,060.50	
Note: Includes 4.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0116 LF CALTRANS 665180 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	197.10	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0117 LF CALTRANS 665223 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.079" THICK).....	146.85	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0118 LF CALTRANS 665224 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK).....	162.46	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0119 LF CALTRANS 665237 36" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK).....	273.96	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0120 LF CALTRANS 665323 24" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK).....	133.14	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0121 LF CALTRANS 665334 30" BITUMINOUS LINED CORRUGATED STEEL PIPE (.168" THICK).....	256.64	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0122 LF CALTRANS 665336 36" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK).....	230.17	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0123 LF CALTRANS 665711 12" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	63.75	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0124 LF CALTRANS 665712 12" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	68.15	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0125 LF CALTRANS 665713 12" SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....	81.87	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0126 LF CALTRANS 665716 18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	114.15	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0127 LF CALTRANS 665717 18" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	124.24	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0128 LF CALTRANS 665718 18" SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	210.66	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0129 LF CALTRANS 665722 24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	123.82	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0130 LF CALTRANS 665723 24" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	132.76	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0131 LF CALTRANS 665811 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	70.01	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0132 LF CALTRANS 665812 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	75.47	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0133 LF CALTRANS 665816 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	128.51	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0134 LF CALTRANS 665817 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	141.04	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0135 LF CALTRANS 665818 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....	180.18	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0136 LF CALTRANS 665820 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.138" THICK).....	210.85	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0137 LF CALTRANS 665822 24" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	147.64	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0138 LF CALTRANS 665828 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	248.37	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0139 LF CALTRANS 667001 17" X 13" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	82.75	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0140 LF CALTRANS 667005 21" X 15" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	101.15	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0141 LF CALTRANS 667006 21" X 15" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	114.85	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0142 LF CALTRANS 667009 24" X 18" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	119.01	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0143 LF CALTRANS 667010 24" X 18" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	135.17	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0144 LF CALTRANS 667013 28" X 20" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	125.75	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0145 LF CALTRANS 667014 28" X 20" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	151.69	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0146 LF CALTRANS 667015 28" X 20" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	167.71	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0147 LF CALTRANS 667018 35" X 24" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	176.02	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0148 LF CALTRANS 667019 35" X 24" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	198.59	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0149 LF CALTRANS 667020 35" X 24" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	218.75	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0150 LF CALTRANS 667023 42" X 29" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	218.47	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0151 LF CALTRANS 667024 42" X 29" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	245.15	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0152 LF CALTRANS 667025 42" X 29" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	270.27	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0153 LF CALTRANS 667028 49" X 33" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	255.44	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0154 LF CALTRANS 667029 49" X 33" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	286.24	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0155 LF CALTRANS 667030 49" X 33" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	315.53	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0156 LF CALTRANS 667033 57" X 38" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	306.45	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0157 LF CALTRANS 667034 57" X 38" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	333.80	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0158 LF CALTRANS 667035 57" X 38" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	366.99	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0159 LF CALTRANS 667037 64" X 43" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	357.68	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0160 LF CALTRANS 667038 64" X 43" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	387.88	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0161 LF CALTRANS 667041 71" X 47" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	452.24	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0162 LF CALTRANS 667042 71" X 47" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	490.03	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0163 LF CALTRANS 667048 83" X 57" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	745.22	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0164 LF CALTRANS 667114 28" X 20" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.109" THICK).....	164.29	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	
50 89 87 66-0165 LF CALTRANS 667326 42" X 29" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.168" THICK).....	329.83	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0166	LF		CALTRANS 669012 12" CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....63.09 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0167	LF		CALTRANS 669016 18" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....86.39 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0168	LF		CALTRANS 669017 18" CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....93.06 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0169	LF		CALTRANS 669018 18" CORRUGATED STEEL PIPE CONDUIT (.109" THICK).....106.87 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0170	LF		CALTRANS 669055 8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....46.66 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 66-0171	LF		CALTRANS 669072 24" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....133.14 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 67 STRUCTURAL PLATE CULVERTS (50 89 87)					
Note: Includes structural metal plate pipe, arches and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, testing, and other connecting devices per CALTRAN Standard.					
50 89 87 67-0001	LF		CALTRANS 670602 90" STRUCTURAL STEEL PLATE PIPE (.138" THICK) 1,008.70 Note: Includes 4.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 67-0002	LF		CALTRANS 670901 108" STRUCTURAL STEEL PLATE PIPE (.109" THICK) 1,102.82 Note: Includes 5.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 67-0003	LF		CALTRANS 671101 120" STRUCTURAL STEEL PLATE PIPE (.109" THICK) 1,225.21 Note: Includes 6.22 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 67-0004	LF		CALTRANS 674351 11'-10" X 7'-7" STRUCTURAL STEEL PLATE PIPE ARCH (.109" THICK) 1,408.54 Note: Includes 0.32 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 68 SUBSURFACE DRAINS (50 89 87)					
Note: Includes subsurface drains, excavation, backfill and compaction per CALTRAN Standard.					
50 89 87 68-0001	LF		CALTRANS 680402 6" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK) 34.87 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 68-0002	LF		CALTRANS 680405 8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK) 46.95 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 68-0003	LF		CALTRANS 680406 8" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK) 51.29 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 68-0004	LF		CALTRANS 680411 12" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK) 66.27 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 68-0005	LF		CALTRANS 680412 12" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK) 71.96 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 68-0006	LF		CALTRANS 680436 8" BITUMINOUS COATED PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK) 56.15 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.99 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.38		
50 89 87 69 OVERSIDE DRAINS (50 89 87)					
Note: Includes constructing overside drains, excavation, backfill, compaction and anchors per CALTRAN Standard.					
50 89 87 69-0001	LF		CALTRANS 690103 6" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....33.84		
50 89 87 69-0002	LF		CALTRANS 690105 8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....41.92		
50 89 87 69-0003	LF		CALTRANS 690106 8" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....45.35		
50 89 87 69-0004	LF		CALTRANS 690107 10" CORRUGATED STEEL PIPE DOWNDRAIN 54.45		
50 89 87 69-0005	LF		CALTRANS 690111 12" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....57.07		
50 89 87 69-0006	LF		CALTRANS 690112 12" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....61.55		
50 89 87 69-0007	LF		CALTRANS 690114 15" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....77.17		
50 89 87 69-0008	LF		CALTRANS 690115 15" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....88.56		
50 89 87 69-0009	LF		CALTRANS 690116 18" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....83.97		
50 89 87 69-0010	LF		CALTRANS 690117 18" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....90.64		
50 89 87 69-0011	LF		CALTRANS 690118 18" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....104.45		
50 89 87 69-0012	LF		CALTRANS 690122 24" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....109.21		
50 89 87 69-0013	LF		CALTRANS 690123 24" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....118.17		
50 89 87 69-0014	LF		CALTRANS 690124 24" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....136.46		
50 89 87 69-0015	LF		CALTRANS 690125 24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....151.82		

50 Custom Standards And Assemblies
50 89 CALTRANS Custom Standards And Assemblies
50 89 80 CALTRANS Construction Performance Requirements



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 69-0016 LF CALTRANS 690131 30" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	157.61	
50 89 87 69-0017 LF CALTRANS 690132 30" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	180.24	
50 89 87 69-0018 LF CALTRANS 690134 30" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	199.77	
50 89 87 69-0019 LF CALTRANS 690136 36" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	207.69	
50 89 87 69-0020 LF CALTRANS 690137 36" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	234.53	
50 89 87 69-0021 LF CALTRANS 690138 36" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	259.65	
50 89 87 69-0022 LF CALTRANS 690142 42" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	270.88	
50 89 87 69-0023 LF CALTRANS 690147 48" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	306.83	
50 89 87 69-0024 LF CALTRANS 690148 48" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	340.18	
50 89 87 69-0025 LF CALTRANS 690150 54" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	372.07	
50 89 87 69-0026 LF CALTRANS 690205 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	45.74	
50 89 87 69-0027 LF CALTRANS 690206 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	49.19	
50 89 87 69-0028 LF CALTRANS 690211 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	62.15	
50 89 87 69-0029 LF CALTRANS 690212 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	66.64	
50 89 87 69-0030 LF CALTRANS 690216 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	91.63	
50 89 87 69-0031 LF CALTRANS 690217 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	98.38	
50 89 87 69-0032 LF CALTRANS 690218 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	113.31	
50 89 87 69-0033 LF CALTRANS 690222 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	119.51	
50 89 87 69-0034 LF CALTRANS 690223 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	128.58	
50 89 87 69-0035 LF CALTRANS 690224 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	148.33	
50 89 87 69-0036 LF CALTRANS 690225 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	166.28	
50 89 87 69-0037 LF CALTRANS 690231 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	170.98	
50 89 87 69-0038 LF CALTRANS 690232 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	195.33	
50 89 87 69-0039 LF CALTRANS 690235 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	211.26	
50 89 87 69-0040 LF CALTRANS 690237 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	253.19	
50 89 87 69-0041 LF CALTRANS 690238 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	283.39	
50 89 87 69-0042 LF CALTRANS 690242 42" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	292.76	
50 89 87 69-0043 LF CALTRANS 690247 48" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	331.53	
50 89 87 69-0044 LF CALTRANS 690253 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	218.15	
50 89 87 69-0045 LF CALTRANS 690260 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	85.96	
50 89 87 69-0046 LF CALTRANS 690263 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	126.86	
50 89 87 69-0047 LF CALTRANS 690318 18" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	120.45	
50 89 87 69-0048 LF CALTRANS 690324 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	157.90	
50 89 87 69-0049 LF CALTRANS 690341 42" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	259.60	
50 89 87 69-0050 LF CALTRANS 690351 54" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	425.55	
50 89 87 69-0051 LF CALTRANS 690960 12" PLASTIC PIPE DOWNDRAIN.....	53.82	
50 89 87 69-0052 LF CALTRANS 690964 18" PLASTIC PIPE DOWNDRAIN.....	85.11	
50 89 87 69-0053 EA CALTRANS 692303 8" ANCHOR ASSEMBLY.....	707.33	
50 89 87 69-0054 EA CALTRANS 692305 12" ANCHOR ASSEMBLY.....	881.69	
50 89 87 69-0055 EA CALTRANS 692306 15" ANCHOR ASSEMBLY.....	988.49	
50 89 87 69-0056 EA CALTRANS 692307 18" ANCHOR ASSEMBLY.....	1,102.88	
50 89 87 69-0057 EA CALTRANS 692309 24" ANCHOR ASSEMBLY.....	1,355.24	
50 89 87 69-0058 EA CALTRANS 692311 30" ANCHOR ASSEMBLY.....	1,624.75	
50 89 87 69-0059 EA CALTRANS 692313 36" ANCHOR ASSEMBLY.....	1,894.43	
50 89 87 69-0060 EA CALTRANS 692319 54" ANCHOR ASSEMBLY.....	2,706.39	

50 89 87 70 MISCELLANEOUS DRAINAGE FACILITIES (50 89 87)

50 89 87 70-0001 LF CALTRANS 700637 36" CORRUGATED STEEL PIPE INLET (.064" THICK).....	213.41	
50 89 87 70-0002 LF CALTRANS 700638 36" CORRUGATED STEEL PIPE INLET (.079" THICK).....	213.41	
50 89 87 70-0003 LF CALTRANS 700639 36" CORRUGATED STEEL PIPE INLET (.109" THICK).....	240.25	
50 89 87 70-0004 LF CALTRANS 700640 36" CORRUGATED STEEL PIPE INLET (.138" THICK).....	265.37	
50 89 87 70-0005 LF CALTRANS 700641 36" CORRUGATED STEEL PIPE INLET (.168" THICK).....	322.03	
50 89 87 70-0006 LF CALTRANS 700655 48" CORRUGATED STEEL PIPE INLET (.109" THICK).....	318.21	
50 89 87 70-0007 LF CALTRANS 700656 48" CORRUGATED STEEL PIPE INLET (.138" THICK).....	351.57	
50 89 87 70-0008 LF CALTRANS 700837 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.064" THICK).....	216.99	
50 89 87 70-0009 LF CALTRANS 700838 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK).....	228.62	
50 89 87 70-0010 LF CALTRANS 700839 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.109" THICK).....	258.92	
50 89 87 70-0011 LF CALTRANS 700840 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.138" THICK).....	289.11	
50 89 87 70-0012 LF CALTRANS 700854 48" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK).....	342.91	
50 89 87 70-0013 LF CALTRANS 703516 8" WELDED STEEL PIPE (.188" THICK).....	138.19	31.82
For >1,000, Deduct	-6.91	
50 89 87 70-0014 LF CALTRANS 703525 10" WELDED STEEL PIPE (.250" THICK).....	196.60	34.71
For >1,000, Deduct	-9.83	
50 89 87 70-0015 LF CALTRANS 703533 12" WELDED STEEL PIPE (.250" THICK).....	223.92	36.37
For >1,000, Deduct	-11.20	
50 89 87 70-0016 LF CALTRANS 703555 18" WELDED STEEL PIPE (.250" THICK).....	318.77	47.73
For >1,000, Deduct	-15.94	
50 89 87 70-0017 LF CALTRANS 703557 18" WELDED STEEL PIPE (.375" THICK).....	423.55	82.27
For >1,000, Deduct	-21.18	
50 89 87 70-0018 LF CALTRANS 703564 20" WELDED STEEL PIPE (.375" THICK).....	464.37	82.27
For >1,000, Deduct	-23.22	
50 89 87 70-0019 LF CALTRANS 703575 24" WELDED STEEL PIPE (.250" THICK).....	501.12	94.94
For >1,000, Deduct	-25.06	
50 89 87 70-0020 LF CALTRANS 703576 24" WELDED STEEL PIPE (.375" THICK).....	594.34	94.94
For >1,000, Deduct	-29.72	
50 89 87 70-0021 LF CALTRANS 703598 30" WELDED STEEL PIPE (.250" THICK).....	582.21	110.76
For >1,000, Deduct	-29.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 70-0022 LF CALTRANS 703600 30" WELDED STEEL PIPE (.375" THICK)	690.11	110.76
For >1,000, Deduct	-34.51	
50 89 87 70-0023 LF CALTRANS 703618 36" WELDED STEEL PIPE (.250" THICK)	775.69	132.90
For >1,000, Deduct	-38.78	
50 89 87 70-0024 LF CALTRANS 703620 36" WELDED STEEL PIPE (.375" THICK)	924.57	132.90
For >1,000, Deduct	-46.23	
50 89 87 70-0025 LF CALTRANS 703644 42" WELDED STEEL PIPE (.250" THICK)	1,603.37	148.73
For >1,000, Deduct	-80.17	
50 89 87 70-0026 LF CALTRANS 703646 42" WELDED STEEL PIPE (.375" THICK)	1,603.37	148.73
For >1,000, Deduct	-80.17	
50 89 87 70-0027 LF CALTRANS 703656 48" WELDED STEEL PIPE (.375" THICK)	1,841.17	167.72
For >1,000, Deduct	-92.06	
50 89 87 70-0028 LF CALTRANS 703755 8" COATED WELDED STEEL PIPE (.188" THICK)	152.20	31.82
For >1,000, Deduct	-7.61	
50 89 87 70-0029 LF CALTRANS 703757 10" COATED WELDED STEEL PIPE (.250" THICK)	212.20	34.71
For >1,000, Deduct	-10.61	
50 89 87 70-0030 LF CALTRANS 703760 12" COATED WELDED STEEL PIPE (.250" THICK)	223.92	36.37
For >1,000, Deduct	-11.20	
50 89 87 70-0031 LF CALTRANS 703762 18" COATED WELDED STEEL PIPE (.250" THICK)	345.21	47.73
For >1,000, Deduct	-17.26	
50 89 87 70-0032 LF CALTRANS 703763 18" COATED WELDED STEEL PIPE (.375" THICK)	449.98	82.27
For >1,000, Deduct	-22.50	
50 89 87 70-0033 LF CALTRANS 703764 20" COATED WELDED STEEL PIPE (.375" THICK)	493.75	82.27
For >1,000, Deduct	-24.69	
50 89 87 70-0034 LF CALTRANS 703765 24" COATED WELDED STEEL PIPE (.250" THICK)	513.06	94.94
For >1,000, Deduct	-25.65	
50 89 87 70-0035 LF CALTRANS 703767 30" COATED WELDED STEEL PIPE (.250" THICK)	626.27	110.76
For >1,000, Deduct	-31.31	
50 89 87 70-0036 LF CALTRANS 703768 30" COATED WELDED STEEL PIPE (.375" THICK)	734.16	110.76
For >1,000, Deduct	-36.71	
50 89 87 70-0037 LF CALTRANS 703769 36" COATED WELDED STEEL PIPE (.250" THICK)	828.55	132.90
For >1,000, Deduct	-41.43	
50 89 87 70-0038 LF CALTRANS 703769 36" COATED WELDED STEEL PIPE (.375" THICK)	977.44	132.90
For >1,000, Deduct	-48.87	
50 89 87 70-0039 LF CALTRANS 703771 42" COATED WELDED STEEL PIPE (.250" THICK)	1,665.05	148.73
For >1,000, Deduct	-83.25	
50 89 87 70-0040 LF CALTRANS 703772 42" COATED WELDED STEEL PIPE (.375" THICK)	1,665.05	148.73
For >1,000, Deduct	-83.25	
50 89 87 70-0041 LF CALTRANS 703773 48" COATED WELDED STEEL PIPE (.375" THICK)	1,911.66	167.72
For >1,000, Deduct	-95.58	
50 89 87 70-0042 EA CALTRANS 705007 12" STEEL FLARED END SECTION	531.65	76.28
50 89 87 70-0043 EA CALTRANS 705009 15" STEEL FLARED END SECTION	616.80	81.73
50 89 87 70-0044 EA CALTRANS 705011 18" STEEL FLARED END SECTION	739.50	87.18
50 89 87 70-0045 EA CALTRANS 705013 21" STEEL FLARED END SECTION	922.32	95.35
50 89 87 70-0046 EA CALTRANS 705015 24" STEEL FLARED END SECTION	1,211.94	103.53
50 89 87 70-0047 EA CALTRANS 705016 27" STEEL FLARED END SECTION	1,518.78	103.53
50 89 87 70-0048 EA CALTRANS 705019 30" STEEL FLARED END SECTION	1,831.09	117.15
50 89 87 70-0049 EA CALTRANS 705023 36" STEEL FLARED END SECTION	3,128.97	141.00
50 89 87 70-0050 EA CALTRANS 705027 42" STEEL FLARED END SECTION	4,002.60	164.50
50 89 87 70-0051 EA CALTRANS 705031 48" STEEL FLARED END SECTION	5,733.30	188.00
50 89 87 70-0052 EA CALTRANS 705035 54" STEEL FLARED END SECTION	6,349.00	235.00
50 89 87 70-0053 EA CALTRANS 705037 60" STEEL FLARED END SECTION	8,557.42	281.99
50 89 87 70-0054 EA CALTRANS 705039 66" STEEL FLARED END SECTION	9,638.70	423.00
50 89 87 70-0055 EA CALTRANS 705041 72" STEEL FLARED END SECTION	11,233.07	563.99
50 89 87 70-0056 EA CALTRANS 705057 12" BITUMINOUS COATED STEEL FLARED END SECTION	621.54	76.28
50 89 87 70-0057 EA CALTRANS 705059 15" BITUMINOUS COATED STEEL FLARED END SECTION	724.10	81.73
50 89 87 70-0058 EA CALTRANS 705061 18" BITUMINOUS COATED STEEL FLARED END SECTION	868.83	87.18
50 89 87 70-0059 EA CALTRANS 705063 21" BITUMINOUS COATED STEEL FLARED END SECTION	1,094.84	95.35
50 89 87 70-0060 EA CALTRANS 705065 24" BITUMINOUS COATED STEEL FLARED END SECTION	1,449.83	103.53
50 89 87 70-0061 EA CALTRANS 705067 27" BITUMINOUS COATED STEEL FLARED END SECTION	1,827.50	103.53
50 89 87 70-0062 EA CALTRANS 705069 30" BITUMINOUS COATED STEEL FLARED END SECTION	2,210.63	117.15
50 89 87 70-0063 EA CALTRANS 705073 36" BITUMINOUS COATED STEEL FLARED END SECTION	3,806.78	141.00
50 89 87 70-0064 EA CALTRANS 705077 42" BITUMINOUS COATED STEEL FLARED END SECTION	4,876.25	164.50
50 89 87 70-0065 EA CALTRANS 705081 48" BITUMINOUS COATED STEEL FLARED END SECTION	7,008.11	188.00
50 89 87 70-0066 EA CALTRANS 705084 54" BITUMINOUS COATED STEEL FLARED END SECTION	7,745.15	235.00
50 89 87 70-0067 EA CALTRANS 705201 12" CONCRETE FLARED END SECTION	972.70	136.89
50 89 87 70-0068 EA CALTRANS 705202 15" CONCRETE FLARED END SECTION	1,172.17	170.61
50 89 87 70-0069 EA CALTRANS 705204 18" CONCRETE FLARED END SECTION	1,422.67	215.97
50 89 87 70-0070 EA CALTRANS 705205 21" CONCRETE FLARED END SECTION	1,630.27	258.27
50 89 87 70-0071 EA CALTRANS 705206 24" CONCRETE FLARED END SECTION	1,987.27	298.92
50 89 87 70-0072 EA CALTRANS 705207 27" CONCRETE FLARED END SECTION	2,395.16	477.40
50 89 87 70-0073 EA CALTRANS 705208 30" CONCRETE FLARED END SECTION	2,492.94	657.29
50 89 87 70-0074 EA CALTRANS 705210 36" CONCRETE FLARED END SECTION	3,369.96	829.54
50 89 87 70-0075 EA CALTRANS 705212 42" CONCRETE FLARED END SECTION	4,050.20	1,040.80
50 89 87 70-0076 EA CALTRANS 705214 48" CONCRETE FLARED END SECTION	4,392.18	1,173.81
50 89 87 70-0077 EA CALTRANS 705216 54" CONCRETE FLARED END SECTION	4,923.42	1,314.69
50 89 87 70-0078 EA CALTRANS 705217 60" CONCRETE FLARED END SECTION	5,453.01	1,314.69
50 89 87 70-0079 EA CALTRANS 705403 21" X 15" STEEL FLARED END PIPE ARCH SECTION	784.99	87.18
50 89 87 70-0080 EA CALTRANS 705405 24" X 18" STEEL FLARED END PIPE ARCH SECTION	857.09	95.35
50 89 87 70-0081 EA CALTRANS 705407 28" X 20" STEEL FLARED END PIPE ARCH SECTION	924.41	103.53
50 89 87 70-0082 EA CALTRANS 705409 35" X 24" STEEL FLARED END PIPE ARCH SECTION	1,399.80	117.15
50 89 87 70-0083 EA CALTRANS 705411 42" X 29" STEEL FLARED END PIPE ARCH SECTION	2,691.69	141.00
50 89 87 70-0084 EA CALTRANS 705413 49" X 33" STEEL FLARED END PIPE ARCH SECTION	3,612.24	164.50

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

50 89 87 70-0085	EA		CALTRANS 705415 57" X 38" STEEL FLARED END PIPE ARCH SECTION.....	5,581.28	188.00
50 89 87 70-0086	EA		CALTRANS 705417 64" X 43" STEEL FLARED END PIPE ARCH SECTION.....	6,390.27	235.00
50 89 87 70-0087	EA		CALTRANS 705419 71" X 47" STEEL FLARED END PIPE ARCH SECTION.....	7,719.26	281.99

50 89 87 71 EXISTING DRAINAGE FACILITIES (50 89 87)

Note: For work on culverts, inlets, headwalls, endwalls, aprons, drains, pipes, gutters, gutter depressions, junction structures, spillways, and check dams. Includes cleaning and preparing, inspecting and evaluating, repairing, rehabilitating, and reinspecting culverts, drain pipes, conduit, risers, downdrains, median drainage inlets, and underdrains per CALTRANS Standard.

50 89 87 71-0001	EA		CALTRANS 710208 ADJUST FRAME AND COVER TO GRADE	480.07	
50 89 87 71-0002	LF		CALTRANS 710360 CLEANING, INSPECTING, AND PREPARING CULVERT (LF).....	60.09	
			For >250 To 500, Deduct	-2.69	
			For >500 To 1,000, Deduct	-5.37	
			For >1,000 To 2,000, Deduct	-8.06	
			For >2,000 To 5,000, Deduct	-10.75	
			For >5,000, Deduct	-13.43	
50 89 87 71-0003	CY		CALTRANS 710368 CULVERT SLURRY-CEMENT BACKFILL	256.38	
50 89 87 71-0004	CY		CALTRANS 710370 SAND BACKFILL	62.88	
			For Up To 10, Add	16.88	
			For >10 To 25, Add	6.29	
50 89 87 71-0005	LF		CALTRANS 710372 8" CURED-IN-PLACE PIPELINER	96.42	
			For >10 To 25, Add	66.99	
			For >25 To 50, Add	44.06	
			For >50 To 100, Add	22.03	
			For >500 To 1,000, Deduct	-2.98	
			For >1,000 To 2,000, Deduct	-5.48	
			For >2,000 To 5,000, Deduct	-8.45	
			For >5,000, Deduct	-13.45	
50 89 87 71-0006	LF		CALTRANS 710374 10" CURED-IN-PLACE PIPELINER	136.95	
			For >10 To 25, Add	80.88	
			For >25 To 50, Add	54.34	
			For >50 To 100, Add	27.17	
			For >500 To 1,000, Deduct	-3.88	
			For >1,000 To 2,000, Deduct	-7.24	
			For >2,000 To 5,000, Deduct	-11.12	
			For >5,000, Deduct	-17.84	
50 89 87 71-0007	LF		CALTRANS 710376 12" CURED-IN-PLACE PIPELINER	163.17	
			For >10 To 25, Add	92.23	
			For >25 To 50, Add	62.35	
			For >50 To 100, Add	31.18	
			For >500 To 1,000, Deduct	-4.52	
			For >1,000 To 2,000, Deduct	-8.47	
			For >2,000 To 5,000, Deduct	-12.99	
			For >5,000, Deduct	-20.89	
50 89 87 71-0008	LF		CALTRANS 710378 15" CURED-IN-PLACE PIPELINER	259.29	
			For >10 To 25, Add	123.12	
			For >25 To 50, Add	85.54	
			For >50 To 100, Add	42.77	
			For >500 To 1,000, Deduct	-6.61	
			For >1,000 To 2,000, Deduct	-12.57	
			For >2,000 To 5,000, Deduct	-19.18	
			For >5,000, Deduct	-31.11	
50 89 87 71-0009	LF		CALTRANS 710380 18" CURED-IN-PLACE PIPELINER	310.85	
			For >10 To 25, Add	143.57	
			For >25 To 50, Add	100.22	
			For >50 To 100, Add	50.11	
			For >500 To 1,000, Deduct	-7.83	
			For >1,000 To 2,000, Deduct	-14.92	
			For >2,000 To 5,000, Deduct	-22.75	
			For >5,000, Deduct	-36.94	
50 89 87 71-0010	LF		CALTRANS 710382 21" CURED-IN-PLACE PIPELINER	401.64	
			For >10 To 25, Add	171.76	
			For >25 To 50, Add	121.55	
			For >50 To 100, Add	60.78	
			For >500 To 1,000, Deduct	-9.78	
			For >1,000 To 2,000, Deduct	-18.76	
			For >2,000 To 5,000, Deduct	-28.54	
			For >5,000, Deduct	-46.51	
50 89 87 71-0011	LF		CALTRANS 710384 24" CURED-IN-PLACE PIPELINER	504.68	
			For >10 To 25, Add	204.02	
			For >25 To 50, Add	145.92	
			For >50 To 100, Add	72.96	
			For >500 To 1,000, Deduct	-12.00	
			For >1,000 To 2,000, Deduct	-23.13	
			For >2,000 To 5,000, Deduct	-35.12	
			For >5,000, Deduct	-57.39	
50 89 87 71-0012	LF		CALTRANS 710386 27" CURED-IN-PLACE PIPELINER	673.64	
			For >10 To 25, Add	258.61	
			For >25 To 50, Add	186.85	
			For >50 To 100, Add	93.42	
			For >500 To 1,000, Deduct	-15.68	
			For >1,000 To 2,000, Deduct	-30.35	
			For >2,000 To 5,000, Deduct	-46.03	
			For >5,000, Deduct	-75.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0013 LF CALTRANS 710388 30" CURED-IN-PLACE PIPELINER	750.34	
For >10 To 25, Add	287.73	
For >25 To 50, Add	207.93	
For >50 To 100, Add	103.97	
For >500 To 1,000, Deduct	-17.45	
For >1,000 To 2,000, Deduct	-33.80	
For >2,000 To 5,000, Deduct	-51.25	
For >5,000, Deduct	-83.94	
50 89 87 71-0014 LF CALTRANS 710390 36" CURED-IN-PLACE PIPELINER	900.42	
For >10 To 25, Add	337.61	
For >25 To 50, Add	245.08	
For >50 To 100, Add	122.54	
For >500 To 1,000, Deduct	-20.76	
For >1,000 To 2,000, Deduct	-40.27	
For >2,000 To 5,000, Deduct	-61.03	
For >5,000, Deduct	-100.04	
50 89 87 71-0015 LF CALTRANS 710392 42" CURED-IN-PLACE PIPELINER	1,052.16	
For >10 To 25, Add	391.65	
For >25 To 50, Add	284.74	
For >50 To 100, Add	142.37	
For >500 To 1,000, Deduct	-24.19	
For >1,000 To 2,000, Deduct	-46.95	
For >2,000 To 5,000, Deduct	-71.13	
For >5,000, Deduct	-116.65	
50 89 87 71-0016 LF CALTRANS 710394 48" CURED-IN-PLACE PIPELINER	1,206.35	
For >10 To 25, Add	451.82	
For >25 To 50, Add	328.07	
For >50 To 100, Add	164.04	
For >500 To 1,000, Deduct	-27.80	
For >1,000 To 2,000, Deduct	-53.93	
For >2,000 To 5,000, Deduct	-81.73	
For >5,000, Deduct	-133.99	
50 89 87 71-0017 LF CALTRANS 710396 54" CURED-IN-PLACE PIPELINER	1,578.86	
For >10 To 25, Add	583.69	
For >25 To 50, Add	424.96	
For >50 To 100, Add	212.48	
For >500 To 1,000, Deduct	-36.20	
For >1,000 To 2,000, Deduct	-70.29	
For >2,000 To 5,000, Deduct	-106.49	
For >5,000, Deduct	-174.68	
50 89 87 71-0018 LF CALTRANS 710398 60" CURED-IN-PLACE PIPELINER	2,012.03	
For >10 To 25, Add	760.93	
For >25 To 50, Add	551.43	
For >50 To 100, Add	275.71	
For >500 To 1,000, Deduct	-46.55	
For >1,000 To 2,000, Deduct	-90.22	
For >2,000 To 5,000, Deduct	-136.77	
For >5,000, Deduct	-224.13	
50 89 87 71-0019 LF CALTRANS 710400 18" DEFORMED/RE-FORMED HDPE PIPELINER	193.69	
For >500 To 1,000, Deduct	-1.76	
For >1,000 To 2,000, Deduct	-3.52	
For >2,000, Deduct	-7.04	
50 89 87 71-0020 LF CALTRANS 710402 21" DEFORMED/RE-FORMED HDPE PIPELINER	218.78	
For >500 To 1,000, Deduct	-1.91	
For >1,000 To 2,000, Deduct	-3.81	
For >2,000, Deduct	-7.62	
50 89 87 71-0021 LF CALTRANS 710404 24" DEFORMED/RE-FORMED HDPE PIPELINER	265.99	
For >500 To 1,000, Deduct	-2.08	
For >1,000 To 2,000, Deduct	-4.16	
For >2,000, Deduct	-8.32	
50 89 87 71-0022 LF CALTRANS 710434 12" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	33.47	
50 89 87 71-0023 LF CALTRANS 710436 15" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	50.22	
50 89 87 71-0024 LF CALTRANS 710438 18" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	67.65	
50 89 87 71-0025 LF CALTRANS 710440 21" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	83.93	
50 89 87 71-0026 LF CALTRANS 710442 24" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	109.95	
50 89 87 71-0027 LF CALTRANS 710444 27" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	131.94	
50 89 87 71-0028 LF CALTRANS 710446 30" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	151.04	
50 89 87 71-0029 LF CALTRANS 710448 12" CEMENTITIOUS PIPELINER	81.05	
50 89 87 71-0030 LF CALTRANS 710450 15" CEMENTITIOUS PIPELINER	90.82	
50 89 87 71-0031 LF CALTRANS 710452 18" CEMENTITIOUS PIPELINER	96.74	
50 89 87 71-0032 LF CALTRANS 710454 21" CEMENTITIOUS PIPELINER	103.72	
50 89 87 71-0033 LF CALTRANS 710456 24" CEMENTITIOUS PIPELINER	110.55	
50 89 87 71-0034 LF CALTRANS 710458 27" CEMENTITIOUS PIPELINER	115.99	
50 89 87 71-0035 LF CALTRANS 710460 30" CEMENTITIOUS PIPELINER	121.25	
50 89 87 71-0036 LF CALTRANS 710462 36" CEMENTITIOUS PIPELINER	116.42	
50 89 87 71-0037 LF CALTRANS 710478 36" WELDED STEEL PIPELINER	772.42	
50 89 87 71-0038 LF CALTRANS 710480 42" WELDED STEEL PIPELINER	891.50	
50 89 87 71-0039 LF CALTRANS 710482 48" WELDED STEEL PIPELINER	1,013.79	
50 89 87 71-0040 LF CALTRANS 710484 54" WELDED STEEL PIPELINER	1,235.37	
50 89 87 71-0041 LF CALTRANS 710486 60" WELDED STEEL PIPELINER	1,337.21	
50 89 87 71-0042 LF CALTRANS 710488 66" WELDED STEEL PIPELINER	1,460.95	
50 89 87 71-0043 LF CALTRANS 710490 72" WELDED STEEL PIPELINER	1,741.88	
50 89 87 71-0044 LF CALTRANS 710491 78" WELDED STEEL PIPELINER	1,838.89	
50 89 87 71-0045 LF CALTRANS 710492 84" WELDED STEEL PIPELINER	1,947.52	
50 89 87 71-0046 LF CALTRANS 710494 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 42" X 29")	713.01	

50 Custom Standards And Assemblies
50 89 CALTRANS Custom Standards And Assemblies
50 89 80 CALTRANS Construction Performance Requirements



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0047 LF CALTRANS 710496 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 49" X 33").....	894.80	
50 89 87 71-0048 LF CALTRANS 710498 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 57" X 38").....	1,120.84	
50 89 87 71-0049 LF CALTRANS 710500 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 64" X 43").....	1,356.91	
50 89 87 71-0050 LF CALTRANS 710512 42" X 29" WELDED STEEL PIPELINER (ARCH).....	855.87	
50 89 87 71-0051 LF CALTRANS 710514 49" X 33" WELDED STEEL PIPELINER (ARCH).....	987.15	
50 89 87 71-0052 LF CALTRANS 710516 57" X 38" WELDED STEEL PIPELINER (ARCH).....	1,122.20	
50 89 87 71-0053 LF CALTRANS 710518 64" X 43" WELDED STEEL PIPELINER (ARCH).....	1,374.19	
50 89 87 71-0054 LF CALTRANS 710520 71" X 47" WELDED STEEL PIPELINER (ARCH).....	1,485.16	
50 89 87 71-0055 LF CALTRANS 710522 83" X 57" WELDED STEEL PIPELINER (ARCH).....	1,946.95	
50 89 87 71-0056 LF CALTRANS 710524 HDPE PLASTIC PIPELINER (16" OD SDR 32.5).....	144.31	
50 89 87 71-0057 LF CALTRANS 710526 HDPE PLASTIC PIPELINER (18" OD SDR 32.5).....	181.50	
50 89 87 71-0058 LF CALTRANS 710528 HDPE PLASTIC PIPELINER (20" OD SDR 32.5).....	224.64	
50 89 87 71-0059 LF CALTRANS 710530 HDPE PLASTIC PIPELINER (22" OD SDR 32.5).....	259.86	
50 89 87 71-0060 LF CALTRANS 710532 HDPE PLASTIC PIPELINER (24" OD SDR 32.5).....	298.36	
50 89 87 71-0061 LF CALTRANS 710534 HDPE PLASTIC PIPELINER (26" OD SDR 32.5).....	341.90	
50 89 87 71-0062 LF CALTRANS 710536 HDPE PLASTIC PIPELINER (28" OD SDR 32.5).....	387.04	
50 89 87 71-0063 LF CALTRANS 710538 HDPE PLASTIC PIPELINER (30" OD SDR 32.5).....	451.25	
50 89 87 71-0064 LF CALTRANS 710540 HDPE PLASTIC PIPELINER (32" OD SDR 32.5).....	518.76	
50 89 87 71-0065 LF CALTRANS 710542 HDPE PLASTIC PIPELINER (34" OD SDR 32.5).....	574.95	
50 89 87 71-0066 LF CALTRANS 710544 HDPE PLASTIC PIPELINER (36" OD SDR 32.5).....	631.13	
50 89 87 71-0067 LF CALTRANS 710546 HDPE PLASTIC PIPELINER (39.5" OD SDR 32.5).....	725.67	
50 89 87 71-0068 LF CALTRANS 710548 HDPE PLASTIC PIPELINER (42" OD SDR 32.5).....	820.21	
50 89 87 71-0069 LF CALTRANS 710550 HDPE PLASTIC PIPELINER (48" OD SDR 32.5).....	1,068.90	
50 89 87 71-0070 LF CALTRANS 710552 HDPE PLASTIC PIPELINER (54" OD SDR 32.5).....	1,314.34	
50 89 87 71-0071 LF CALTRANS 710554 HDPE PLASTIC PIPELINER (55.3" OD SDR 32.5).....	1,388.40	
50 89 87 71-0072 LF CALTRANS 710556 HDPE PLASTIC PIPELINER (63.2" OD SDR 32.5).....	1,751.35	
50 89 87 71-0073 LF CALTRANS 710558 HDPE PLASTIC PIPELINER (16" OD SDR 26).....	175.65	
50 89 87 71-0074 LF CALTRANS 710660 HDPE PLASTIC PIPELINER (18" OD SDR 26).....	220.95	
50 89 87 71-0075 LF CALTRANS 710662 HDPE PLASTIC PIPELINER (20" OD SDR 26).....	273.85	
50 89 87 71-0076 LF CALTRANS 710664 HDPE PLASTIC PIPELINER (22" OD SDR 26).....	316.94	
50 89 87 71-0077 LF CALTRANS 710666 HDPE PLASTIC PIPELINER (24" OD SDR 26).....	364.10	
50 89 87 71-0078 LF CALTRANS 710668 HDPE PLASTIC PIPELINER (26" OD SDR 26).....	417.50	
50 89 87 71-0079 LF CALTRANS 710670 HDPE PLASTIC PIPELINER (28" OD SDR 26).....	472.89	
50 89 87 71-0080 LF CALTRANS 710672 HDPE PLASTIC PIPELINER (30" OD SDR 26).....	551.92	
50 89 87 71-0081 LF CALTRANS 710674 HDPE PLASTIC PIPELINER (32" OD SDR 26).....	635.04	
50 89 87 71-0082 LF CALTRANS 710766 HDPE PLASTIC PIPELINER (34" OD SDR 26).....	704.12	
50 89 87 71-0083 LF CALTRANS 710768 HDPE PLASTIC PIPELINER (36" OD SDR 26).....	773.21	
50 89 87 71-0084 LF CALTRANS 710770 HDPE PLASTIC PIPELINER (39.5" OD SDR 26).....	889.85	
50 89 87 71-0085 LF CALTRANS 710772 HDPE PLASTIC PIPELINER (42" OD SDR 26).....	1,006.49	
50 89 87 71-0086 LF CALTRANS 710774 HDPE PLASTIC PIPELINER (48" OD SDR 26).....	1,314.28	
50 89 87 71-0087 LF CALTRANS 710776 HDPE PLASTIC PIPELINER (54" OD SDR 26).....	1,618.04	
50 89 87 71-0088 LF CALTRANS 710778 HDPE PLASTIC PIPELINER (55.3" OD SDR 26).....	1,709.28	
50 89 87 71-0089 LF CALTRANS 710780 HDPE PLASTIC PIPELINER (63.2" OD SDR 26).....	2,158.17	
50 89 87 71-0090 LF CALTRANS 710882 HDPE PLASTIC PIPELINER (16" OD SDR 21).....	216.13	
50 89 87 71-0091 LF CALTRANS 710884 HDPE PLASTIC PIPELINER (18" OD SDR 21).....	271.90	
50 89 87 71-0092 LF CALTRANS 710886 HDPE PLASTIC PIPELINER (20" OD SDR 21).....	337.42	
50 89 87 71-0093 LF CALTRANS 710888 HDPE PLASTIC PIPELINER (22" OD SDR 21).....	390.66	
50 89 87 71-0094 LF CALTRANS 710890 HDPE PLASTIC PIPELINER (24" OD SDR 21).....	449.00	
50 89 87 71-0095 LF CALTRANS 710891 HDPE PLASTIC PIPELINER (26" OD SDR 21).....	515.14	
50 89 87 71-0096 LF CALTRANS 710892 HDPE PLASTIC PIPELINER (28" OD SDR 21).....	583.77	
50 89 87 71-0097 LF CALTRANS 710893 HDPE PLASTIC PIPELINER (30" OD SDR 21).....	681.94	
50 89 87 71-0098 LF CALTRANS 710894 HDPE PLASTIC PIPELINER (32" OD SDR 21).....	785.24	
50 89 87 71-0099 LF CALTRANS 710895 HDPE PLASTIC PIPELINER (34" OD SDR 21).....	870.98	
50 89 87 71-0100 LF CALTRANS 710896 HDPE PLASTIC PIPELINER (36" OD SDR 21).....	956.73	
50 89 87 71-0101 LF CALTRANS 710897 HDPE PLASTIC PIPELINER (39.5" OD SDR 21).....	1,101.91	
50 89 87 71-0102 LF CALTRANS 710898 HDPE PLASTIC PIPELINER (42" OD SDR 21).....	1,247.10	
50 89 87 71-0103 LF CALTRANS 710899 HDPE PLASTIC PIPELINER (48" OD SDR 21).....	1,631.23	
50 89 87 71-0104 LF CALTRANS 710900 HDPE PLASTIC PIPELINER (54" OD SDR 21).....	2,010.32	
50 89 87 71-0105 LF CALTRANS 710902 HDPE PLASTIC PIPELINER (55.3" OD SDR 21).....	2,123.76	
50 89 87 71-0106 LF CALTRANS 710904 HDPE PLASTIC PIPELINER (63.2" OD SDR 21).....	2,683.65	

50 89 88 CALTRANS DIVISION VIII - MISCELLANEOUS CONSTRUCTION (50 89 80)

50 89 88 73 CONCRETE CURBS AND SIDEWALKS (50 89 88)

50 89 88 73-0001 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 18".....	31.63
For Up To 20, Add	19.25
For >20 To 50, Add	10.92
For >50 To 100, Add	4.17
For >500 To 1,000, Deduct	-4.17
For >1,000, Deduct	-7.04
50 89 88 73-0002 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 24".....	36.29
For Up To 20, Add	21.47
For >20 To 50, Add	12.16
For >50 To 100, Add	4.66
For >500 To 1,000, Deduct	-4.66
For >1,000, Deduct	-7.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 73-0003 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 18"	33.29	
For Up To 20, Add	19.67	
For >20 To 50, Add	11.14	
For >50 To 100, Add	4.27	
For >500 To 1,000, Deduct	-4.27	
For >1,000, Deduct	-7.23	
50 89 88 73-0004 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 24"	38.48	
For Up To 20, Add	21.91	
For >20 To 50, Add	12.38	
For >50 To 100, Add	4.77	
For >500 To 1,000, Deduct	-4.77	
For >1,000, Deduct	-8.11	
50 89 88 73-0005 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 36"	53.44	
For Up To 20, Add	29.87	
For >20 To 50, Add	16.86	
For >50 To 100, Add	6.51	
For >500 To 1,000, Deduct	-6.51	
For >1,000, Deduct	-11.10	
50 89 88 73-0006 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 24"	46.39	
For Up To 20, Add	25.26	
For >20 To 50, Add	14.23	
For >50 To 100, Add	5.52	
For >500 To 1,000, Deduct	-5.52	
For >1,000, Deduct	-9.43	
50 89 88 73-0007 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 36"	65.22	
For Up To 20, Add	34.84	
For >20 To 50, Add	19.60	
For >50 To 100, Add	7.62	
For >500 To 1,000, Deduct	-7.62	
For >1,000, Deduct	-13.06	
50 89 88 73-0008 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 18"	42.00	
For Up To 20, Add	28.60	
For >20 To 50, Add	16.00	
For >50 To 100, Add	6.30	
For >500 To 1,000, Deduct	-5.50	
For >1,000, Deduct	-9.29	
50 89 88 73-0009 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 24"	50.83	
For Up To 20, Add	34.60	
For >20 To 50, Add	19.35	
For >50 To 100, Add	7.62	
For >500 To 1,000, Deduct	-6.64	
For >1,000, Deduct	-11.23	
50 89 88 73-0010 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 30"	66.32	
For Up To 20, Add	45.17	
For >20 To 50, Add	25.28	
For >50 To 100, Add	9.95	
For >500 To 1,000, Deduct	-8.70	
For >1,000, Deduct	-14.70	
50 89 88 73-0011 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 36"	69.82	
For Up To 20, Add	47.53	
For >20 To 50, Add	26.58	
For >50 To 100, Add	10.47	
For >500 To 1,000, Deduct	-9.13	
For >1,000, Deduct	-15.44	
50 89 88 73-0012 SF CALTRANS 730070 DETECTABLE WARNING SURFACE	59.49	
50 89 88 73-0013 CY CALTRANS 731502 MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	215.17	
For Up To 20, Add	15.29	
For >20 To 50, Add	5.73	
For >100 To 200, Deduct	-4.30	
For >200 To 400, Deduct	-8.61	
For >400, Deduct	-12.91	
50 89 88 73-0014 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 4"	10.85	
For Up To 100, Add	4.74	
For >100 To 500, Add	1.35	
For >1,000 To 5,000, Deduct	-0.81	
For >5,000, Deduct	-1.76	
50 89 88 73-0015 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 6"	12.65	
For Up To 100, Add	5.34	
For >100 To 500, Add	1.50	
For >1,000 To 5,000, Deduct	-0.87	
For >5,000, Deduct	-1.94	
50 89 88 73-0016 LF CALTRANS 731700 REMOVE CURB	13.31	
50 89 88 73-0017 LF CALTRANS 731710 REMOVE CONCRETE CURB (LF)	21.32	
For Up To 20, Add	14.92	
For >20 To 50, Add	8.53	
For >50 To 100, Add	3.20	
For >500 To 1,000, Deduct	-3.20	
For >1,000, Deduct	-5.33	
50 89 88 73-0018 SY CALTRANS 731780 REMOVE CONCRETE SIDEWALK (SQYD)	113.96	
For Up To 100, Add	48.06	
For >100 To 500, Add	13.53	
For >1,000 To 5,000, Deduct	-7.83	
For >5,000, Deduct	-17.44	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 73-0019 LF CALTRANS 731840 REMOVE CONCRETE (CURB AND GUTTER).....	35.51	
For Up To 20, Add	24.86	
For >20 To 50, Add	14.20	
For >50 To 100, Add	5.33	
For >500 To 1,000, Deduct	-5.33	
For >1,000, Deduct	-8.88	
50 89 88 78 INCIDENTAL CONSTRUCTION (50 89 88)		
50 89 88 78-0001 EA CALTRANS 780210 SURVEY MONUMENT (TYPE A).....	654.82	
50 89 88 78-0002 EA CALTRANS 780250 ADJUST MONUMENT COVER TO GRADE	256.86	
50 89 88 78-0003 SF CALTRANS 780433 PAINT CURB (2-COAT).....	7.08	
50 89 88 78-0004 SF CALTRANS 780460 ANTI-GRAFFITI COATING	1.99	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.25	
50 89 88 78-0005 EA CALTRANS 780500 PARKING BUMPER (PRECAST CONCRETE)	111.82	24.07
50 89 88 80 FENCES (50 89 88)		
Note: Includes constructing fences and gates, excavation, concrete footing, posts, bracing, tension wire, hardware and grounding material per CALTRANS Standard.		
50 89 88 80-0001 LF CALTRANS 800004 FENCE (TYPE BW, 5-STRAND, WOOD POST)	14.40	
50 89 88 80-0002 LF CALTRANS 800006 FENCE (TYPE BW, 6-STRAND, WOOD POST)	15.27	
50 89 88 80-0003 LF CALTRANS 800007 FENCE (TYPE BW, 5-STRAND, METAL POST)	17.60	
50 89 88 80-0004 LF CALTRANS 800008 FENCE (TYPE BW, 4-STRAND, METAL POST)	16.34	
50 89 88 80-0005 LF CALTRANS 800010 FENCE (TYPE BW, 4-STRAND, WOOD POST)	13.55	
50 89 88 80-0006 LF CALTRANS 800016 FENCE (TYPE BW, 6-STRAND, METAL POST)	18.46	
50 89 88 80-0007 LF CALTRANS 800103 TEMPORARY FENCE (TEMPORARY FENCE (TYPE CL-6))	8.73	
50 89 88 80-0008 LF CALTRANS 800302 CHAIN LINK FENCE (TYPE CL-3, VINYL-CLAD)	52.32	
For Up To 100, Add	9.80	
For >100 To 250, Add	3.59	
For >2,500 To 5,000, Deduct	-1.80	
For >5,000, Deduct	-3.59	
50 89 88 80-0009 LF CALTRANS 800310 CHAIN LINK FENCE (TYPE CL-3.5)	50.76	
For Up To 100, Add	9.53	
For >100 To 250, Add	3.50	
For >2,500 To 5,000, Deduct	-1.75	
For >5,000, Deduct	-3.50	
50 89 88 80-0010 LF CALTRANS 800320 CHAIN LINK FENCE (TYPE CL-4)	52.39	
For Up To 100, Add	9.81	
For >100 To 250, Add	3.59	
For >2,500 To 5,000, Deduct	-1.80	
For >5,000, Deduct	-3.59	
50 89 88 80-0011 LF CALTRANS 800321 CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD)	54.11	
For Up To 100, Add	10.07	
For >100 To 250, Add	3.68	
For >2,500 To 5,000, Deduct	-1.84	
For >5,000, Deduct	-3.68	
50 89 88 80-0012 LF CALTRANS 800340 CHAIN LINK FENCE (TYPE CL-5)	56.17	
For Up To 100, Add	10.44	
For >100 To 250, Add	3.81	
For >2,500 To 5,000, Deduct	-1.91	
For >5,000, Deduct	-3.81	
50 89 88 80-0013 LF CALTRANS 800341 CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD)	58.33	
For Up To 100, Add	10.76	
For >100 To 250, Add	3.92	
For >2,500 To 5,000, Deduct	-1.96	
For >5,000, Deduct	-3.92	
50 89 88 80-0014 LF CALTRANS 800360 CHAIN LINK FENCE (TYPE CL-6)	60.67	
For Up To 100, Add	11.24	
For >100 To 250, Add	4.10	
For >2,500 To 5,000, Deduct	-2.05	
For >5,000, Deduct	-4.10	
50 89 88 80-0015 LF CALTRANS 800361 CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD)	65.07	
For Up To 100, Add	11.90	
For >100 To 250, Add	4.32	
For >2,500 To 5,000, Deduct	-2.16	
For >5,000, Deduct	-4.32	
50 89 88 80-0016 LF CALTRANS 800363 CHAIN LINK FENCE (TYPE CL-6, EXTENSION ARM)	62.55	
For Up To 100, Add	11.52	
For >100 To 250, Add	4.20	
For >2,500 To 5,000, Deduct	-2.10	
For >5,000, Deduct	-4.20	
50 89 88 80-0017 LF CALTRANS 800365 CHAIN LINK FENCE (TYPE CL-6, SLATTED)	125.74	
For Up To 100, Add	21.54	
For >100 To 250, Add	7.63	
For >2,500 To 5,000, Deduct	-3.81	
For >5,000, Deduct	-7.63	
50 89 88 80-0018 LF CALTRANS 800400 CHAIN LINK FENCE (TYPE CL-8)	71.13	
For Up To 100, Add	13.04	
For >100 To 250, Add	4.74	
For >2,500 To 5,000, Deduct	-2.37	
For >5,000, Deduct	-4.74	
50 89 88 80-0019 EA CALTRANS 802100 4' CHAIN LINK GATE (TYPE CL-4)	455.09	



Custom Standards And Assemblies			50
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 80-0020 EA CALTRANS 802110 5' CHAIN LINK GATE (TYPE CL-4).....	537.76	
50 89 88 80-0021 EA CALTRANS 802120 6' CHAIN LINK GATE (TYPE CL-4).....	632.62	
50 89 88 80-0022 EA CALTRANS 802180 12' CHAIN LINK GATE (TYPE CL-4).....	1,529.22	
50 89 88 80-0023 EA CALTRANS 802340 8' CHAIN LINK GATE (TYPE CL-5).....	959.33	
50 89 88 80-0024 EA CALTRANS 802400 14' CHAIN LINK GATE (TYPE CL-5).....	2,159.79	
50 89 88 80-0025 EA CALTRANS 802420 16' CHAIN LINK GATE (TYPE CL-5).....	2,499.94	
50 89 88 80-0026 EA CALTRANS 802440 18' CHAIN LINK GATE (TYPE CL-5).....	2,792.45	
50 89 88 80-0027 EA CALTRANS 802500 3' CHAIN LINK GATE (TYPE CL-6).....	464.69	
50 89 88 80-0028 EA CALTRANS 802501 4' CHAIN LINK GATE (TYPE CL-6).....	587.20	
50 89 88 80-0029 EA CALTRANS 802502 4' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD).....	305.70	
50 89 88 80-0030 EA CALTRANS 802503 4' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM).....	606.28	
50 89 88 80-0031 EA CALTRANS 802504 4' CHAIN LINK GATE (TYPE CL-6, SLATTED).....	627.00	
50 89 88 80-0032 EA CALTRANS 802510 5' CHAIN LINK GATE (TYPE CL-6).....	686.76	
50 89 88 80-0033 EA CALTRANS 802520 6' CHAIN LINK GATE (TYPE CL-6).....	797.85	
50 89 88 80-0034 EA CALTRANS 802540 8' CHAIN LINK GATE (TYPE CL-6).....	1,024.83	
50 89 88 80-0035 EA CALTRANS 802543 8' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM).....	1,045.63	
50 89 88 80-0036 EA CALTRANS 802550 9' CHAIN LINK GATE (TYPE CL-6).....	1,136.63	
50 89 88 80-0037 EA CALTRANS 802560 10' CHAIN LINK GATE (TYPE CL-6).....	1,679.95	
50 89 88 80-0038 EA CALTRANS 802580 12' CHAIN LINK GATE (TYPE CL-6).....	1,990.99	
50 89 88 80-0039 EA CALTRANS 802601 14' CHAIN LINK GATE (TYPE CL-6).....	2,373.19	
50 89 88 80-0040 EA CALTRANS 802620 16' CHAIN LINK GATE (TYPE CL-6).....	2,690.61	
50 89 88 80-0041 EA CALTRANS 802640 18' CHAIN LINK GATE (TYPE CL-6).....	3,017.38	
50 89 88 80-0042 EA CALTRANS 802660 20' CHAIN LINK GATE (TYPE CL-6).....	3,349.11	
50 89 88 80-0043 EA CALTRANS 802670 24' CHAIN LINK GATE (TYPE CL-6).....	4,025.89	
50 89 88 80-0044 EA CALTRANS 802840 18' CHAIN LINK GATE (TYPE CL-7).....	3,185.76	
50 89 88 80-0045 LF CALTRANS 802900 CHAIN LINK FENCE (TYPE CL-8, EXTENSION ARM).....	73.01	
For Up To 100, Add	13.32	
For >100 To 250, Add	4.83	
For >2,500 To 5,000, Deduct	-2.42	
For >5,000, Deduct	-4.83	
50 89 88 80-0046 EA CALTRANS 802901 4' CHAIN LINK GATE (TYPE CL-8).....	724.86	
50 89 88 80-0047 EA CALTRANS 802902 4' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM).....	743.94	
50 89 88 80-0048 EA CALTRANS 802920 6' CHAIN LINK GATE (TYPE CL-8).....	969.96	
50 89 88 80-0049 EA CALTRANS 802941 8' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM).....	1,263.56	
50 89 88 80-0050 EA CALTRANS 803010 14' CHAIN LINK GATE (TYPE CL-10, VINYL_CLAD).....	1,701.87	
50 89 88 80-0051 LF CALTRANS 803050 REMOVE CHAIN LINK FENCE.....	7.24	
For Up To 100, Add	1.81	
For >100 To 250, Add	0.72	
For >2,500 To 5,000, Deduct	-0.36	
For >5,000, Deduct	-0.72	
50 89 88 80-0052 EA CALTRANS 803060 REMOVE GATE.....	327.28	
50 89 88 80-0053 EA CALTRANS 803160 RESET GATE.....	1,537.01	
50 89 88 80-0054 LF CALTRANS 803180 RELOCATE CHAIN LINK FENCE.....	33.21	

50 89 89 CALTRANS DIVISION IX - TRAFFIC CONTROL DEVICES (50 89 80)**50 89 89 81 MISCELLANEOUS TRAFFIC CONTROL DEVICES (50 89 89)**

50 89 89 81-0001 EA CALTRANS 810120 REMOVE PAVEMENT MARKER.....	2.93	
For >100, Deduct	-0.29	
50 89 89 81-0002 EA CALTRANS 810220 PAVEMENT MARKER (NON-REFLECTIVE).....	7.88	2.93
For >100, Deduct	-0.79	
For >100, Deduct	-0.79	
50 89 89 81-0003 EA CALTRANS 810230 PAVEMENT MARKER (RETROREFLECTIVE).....	9.11	2.93
For >100, Deduct	-0.91	
For >100, Deduct	-0.91	
50 89 89 81-0004 EA CALTRANS 810250 PAVEMENT MARKER (RETROREFLECTIVE-RECESSED).....	85.70	36.19

50 89 89 82 SIGNS AND MARKERS (50 89 89)

50 89 89 82-0001 EA CALTRANS 820110 MILEPOST MARKER.....	214.36	
50 89 89 82-0002 SF CALTRANS 820750 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED).....	27.56	40.83
50 89 89 82-0003 SF CALTRANS 820760 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED).....	28.32	26.42

50 89 89 83 RAILINGS AND BARRIERS (50 89 89)

50 89 89 83-0001 LF CALTRANS 832006 MIDWEST GUARDRAIL SYSTEM (STEEL POST).....	64.82	11.55
50 89 89 83-0002 LF CALTRANS 832007 MIDWEST GUARDRAIL SYSTEM (WOOD POST).....	131.72	17.84
50 89 89 83-0003 LF CALTRANS 839303 SINGLE THRIE BEAM BARRIER (STEEL POST).....	163.56	3.17
50 89 89 83-0004 LF CALTRANS 839752 REMOVE GUARDRAIL.....	11.55	

50 89 89 84 MARKINGS (50 89 89)

50 89 89 84-0001 LF CALTRANS 840505 6" THERMOPLASTIC TRAFFIC STRIPE.....	3.00	
For Up To 5,000 LF, Add	0.60	
For >25,000 LF, Deduct	-0.45	
50 89 89 84-0002 LF CALTRANS 840506 8" THERMOPLASTIC TRAFFIC STRIPE.....	3.97	
For Up To 5,000 LF, Add	0.79	
For >25,000 LF, Deduct	-0.60	
50 89 89 84-0003 LF CALTRANS 840507 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4).....	1.72	
For Up To 5,000 LF, Add	0.34	
For >25,000 LF, Deduct	-0.26	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0004 LF CALTRANS 840508 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	1.41	
For Up To 5,000 LF, Add	0.28	
For >25,000 LF, Deduct	-0.21	
50 89 89 84-0005 SF CALTRANS 840515 THERMOPLASTIC PAVEMENT MARKING.....	12.09	
50 89 89 84-0006 SF CALTRANS 840519 THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING.....	12.09	
50 89 89 84-0007 LF CALTRANS 840522 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1).....	0.91	
For Up To 5,000 LF, Add	0.18	
For >25,000 LF, Deduct	-0.14	
50 89 89 84-0008 LF CALTRANS 840528 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	1.08	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.16	
50 89 89 84-0009 LF CALTRANS 840529 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	1.29	
For Up To 5,000 LF, Add	0.26	
For >25,000 LF, Deduct	-0.19	
50 89 89 84-0010 LF CALTRANS 840530 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7).....	1.50	
For Up To 5,000 LF, Add	0.30	
For >25,000 LF, Deduct	-0.23	
50 89 89 84-0011 LF CALTRANS 840531 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12).....	2.14	
For Up To 5,000 LF, Add	0.43	
For >25,000 LF, Deduct	-0.32	
50 89 89 84-0012 LF CALTRANS 840550 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	1.70	
For Up To 5,000 LF, Add	0.34	
For >25,000 LF, Deduct	-0.26	
50 89 89 84-0013 LF CALTRANS 840583 6" TWO-COMPONENT PAINT TRAFFIC STRIPE	0.88	
For Up To 5,000 LF, Add	0.18	
For >25,000 LF, Deduct	-0.13	
50 89 89 84-0014 LF CALTRANS 840584 8" TWO-COMPONENT PAINT TRAFFIC STRIPE	1.06	
For Up To 5,000 LF, Add	0.21	
For >25,000 LF, Deduct	-0.16	
50 89 89 84-0015 LF CALTRANS 840610 8" TWO-COMPONENT PAINT TRAFFIC STRIPE BROKEN 12-3).....	0.59	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
50 89 89 84-0016 LF CALTRANS 840612 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 6-1).....	0.54	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
50 89 89 84-0017 LF CALTRANS 840614 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3).....	0.60	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
50 89 89 84-0018 LF CALTRANS 840616 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.47	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
50 89 89 84-0019 LF CALTRANS 840618 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 17-7).....	0.60	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
50 89 89 84-0020 LF CALTRANS 840620 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 18-12).....	0.69	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.10	
50 89 89 84-0021 LF CALTRANS 840622 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 8-4).....	0.60	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
50 89 89 84-0022 LF CALTRANS 840624 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.73	
For Up To 5,000 LF, Add	0.15	
For >25,000 LF, Deduct	-0.11	
50 89 89 84-0023 SF CALTRANS 840637 TWO-COMPONENT PAINT PAVEMENT MARKING	8.99	
50 89 89 84-0024 SF CALTRANS 840651 PAINTED STALL LINES AND PAVEMENT MARKINGS.....	7.35	
50 89 89 84-0025 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 4" Wide	0.40	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
50 89 89 84-0026 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 6" Wide	0.53	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
50 89 89 84-0027 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 8" Wide	0.65	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.10	
50 89 89 84-0028 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 4" Wide	0.78	
For Up To 5,000 LF, Add	0.16	
For >25,000 LF, Deduct	-0.12	
50 89 89 84-0029 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 6" Wide	1.02	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
50 89 89 84-0030 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 8" Wide	1.31	
For Up To 5,000 LF, Add	0.26	
For >25,000 LF, Deduct	-0.20	
50 89 89 84-0031 SF CALTRANS 840665 PAINT PAVEMENT MARKING (1-COAT)	7.35	
50 89 89 84-0032 SF CALTRANS 840666 PAINT PAVEMENT MARKING (2-COAT)	11.23	
50 89 89 84-0033 LF CALTRANS 846020 REMOVE PAINTED TRAFFIC STRIPE.....	2.38	
For Up To 250, Add	1.19	
For >250 To 1,000, Add	0.60	
For >5,000 To 10,000, Deduct	-0.36	
For >10,000 To 25,000, Deduct	-0.60	
For >25,000 To 50,000, Deduct	-0.83	
For >50,000, Deduct	-0.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0034 SF CALTRANS 846025 REMOVE PAINTED PAVEMENT MARKING	4.12	
For Up To 250, Add	2.06	
For >250 To 1,000, Add	1.03	
For >5,000 To 10,000, Deduct	-0.62	
For >10,000 To 25,000, Deduct	-1.03	
For >25,000 To 50,000, Deduct	-1.44	
For >50,000, Deduct	-1.65	
50 89 89 84-0035 LF CALTRANS 846030 REMOVE THERMOPLASTIC TRAFFIC STRIPE	3.62	
For Up To 250, Add	1.81	
For >250 To 1,000, Add	0.91	
For >5,000 To 10,000, Deduct	-0.54	
For >10,000 To 25,000, Deduct	-0.91	
For >25,000 To 50,000, Deduct	-1.27	
For >50,000, Deduct	-1.45	
50 89 89 84-0036 SF CALTRANS 846035 REMOVE THERMOPLASTIC PAVEMENT MARKING	5.23	
For Up To 250, Add	2.62	
For >250 To 1,000, Add	1.31	
For >5,000 To 10,000, Deduct	-0.78	
For >10,000 To 25,000, Deduct	-1.31	
For >25,000 To 50,000, Deduct	-1.83	
For >50,000, Deduct	-2.09	

END OF SECTION 50

50	50	Custom Standards And Assemblies	
	50 89	CALTRANS Custom Standards And Assemblies	
	50 89 80	CALTRANS Construction Performance Requirements	



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST

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